



**TECNOL<sup>MR</sup>ED**  
Ilumina ahorrando<sup>®</sup>

**CATÁLOGO 2017**  
**ILUMINACIÓN LED & LÁMPARAS DECORATIVAS**



# TECNOLED<sup>MR</sup>

Ilumina ahorrando

## ¿Quiénes somos?

**TECNOLED** es una marca registrada de productos de iluminación a base de tecnología LED. Creada con el firme propósito de distribuir luminarias LED de alta calidad y eficiencia. Ofreciendo soluciones rentables y de ahorro energético.

## Misión

Distribuir en el mercado mexicano productos de iluminación LED de alta calidad y eficiencia, ofreciendo así a nuestros clientes soluciones rentables y de ahorro. Siempre comprometidos con nuestros valores, clientes, empleados y con la protección al medio ambiente.

## Visión

Ser la empresa líder en iluminación LED de la república mexicana, siendo el modelo a seguir de toda empresa de iluminación en México, por nuestra innovación de productos y vanguardia en la calidad de nuestros productos y servicios.

## Valores de Tecnoled

Para vivir diariamente nuestra misión, y con el fin de alcanzar nuestra visión nombramos los principales valores con los que los directivos así como los empleados de Tecnoled desempeñan sus labores, comprometidos siempre con ellos.

# RESPONSABILIDAD

## HONESTIDAD

## EXCELENCIA

## R E S P E T O

## S E R V I C I O

TECNOLED<sup>MR</sup>

# LUMINARIA VIALIDAD

3 A 5 AÑOS DE GARANTÍA



| CLAVE     | TEMPERATURA | VOLTAJE     | WATTS | LUMINOSIDAD | ANGULO | MATERIAL | DIMENSIONES   | IP    |
|-----------|-------------|-------------|-------|-------------|--------|----------|---------------|-------|
| STL-30W   | 6500k       | 85 - 265 V~ | 30W   | 3000 Lm     | 140°   | AL       | 365*135*84 mm | IP 65 |
| STL-40W   | 6500k       | 85 - 265 V~ | 40W   | 4000 Lm     | 140°   | AL       | 365*135*89 mm | IP 65 |
| STLM-60W  | 6500k       | 85 - 265 V~ | 60W   | 6000 Lm     | 140°   | AL       | 431*160*89 mm | IP 65 |
| STLM-90W  | 6500k       | 85 - 265 V~ | 90W   | 9000 Lm     | 140°   | AL       | 431*160*89 mm | IP 65 |
| STLM-120W | 6500k       | 85 - 265 V~ | 120W  | 12000 Lm    | 140°   | AL       | 631*215*90 mm | IP 65 |

## LUMINARIA VIALIDAD SOLAR

PANEL MONOCRISTALINO

2 AÑOS DE GARANTIA



| CLAVE     | TEMPERATURA | VOLTAJE | WATTS | LUMINOSIDAD | ANGULO | MATERIAL | DIMENSIONES   | IP    |
|-----------|-------------|---------|-------|-------------|--------|----------|---------------|-------|
| SO-STR15W | 6500k       | 8.4 V   | 15W   | 1500 Lm     | 140°   | AL       | 410*215*55 mm | IP 65 |
| SO-STR50W | 6500k       | 12.6 V  | 50W   | 5000 Lm     | 140°   | AL       | 907*363*44 mm | IP 65 |

# REFLECTOR RXA

5 AÑOS DE GARANTÍA



| CLAVE    | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES     | TIPO SMD | IP    |
|----------|-------------|------------|-------|-------------|------------|----------|-----------------|----------|-------|
| RXA-200W | 6500k       | 100-277 V~ | 200W  | 22000 Lm    | 120 Grados | Aluminio | 330*450* 120 mm | SMD 3030 | IP 67 |

# REFLECTORES SMD

**3 AÑOS DE GARANTIA**



| CLAVE               | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD      | ANGULO     | MATERIAL | DIMENSIONES    | TIPO SMD | IP    |
|---------------------|-------------|-----------|-------|------------------|------------|----------|----------------|----------|-------|
| ML-REF-10WSMD-BB/BC | 6500k/3500K | 85-265 V~ | 10 W  | 1000 Lm /900 Lm  | 140 Grados | Aluminio | 113*85*77 mm   | SMD 5730 | IP 65 |
| ML-REF-20WSMD-BB/BC | 6500k/3500K | 85-265 V~ | 20 W  | 1900 Lm /1750 Lm | 140 Grados | Aluminio | 180*140*100 mm | SMD 5730 | IP 65 |
| ML-REF-30WSMD-BB/BC | 6500k/3500K | 85-265 V~ | 30 W  | 2900 Lm /2700 Lm | 140 Grados | Aluminio | 224*185*110 mm | SMD 5730 | IP 65 |
| ML-REF-50WSMD-BB/BC | 6500k/3500K | 85-265 V~ | 50 W  | 4600 Lm/4350 Lm  | 140 Grados | Aluminio | 283*233*117 mm | SMD 5730 | IP 65 |

# REFLECTORES SMD

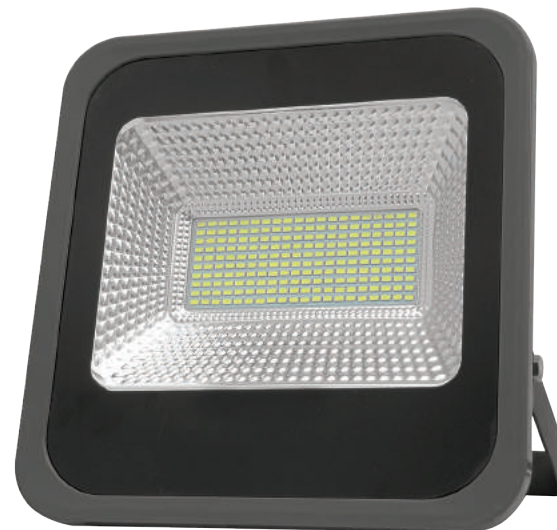
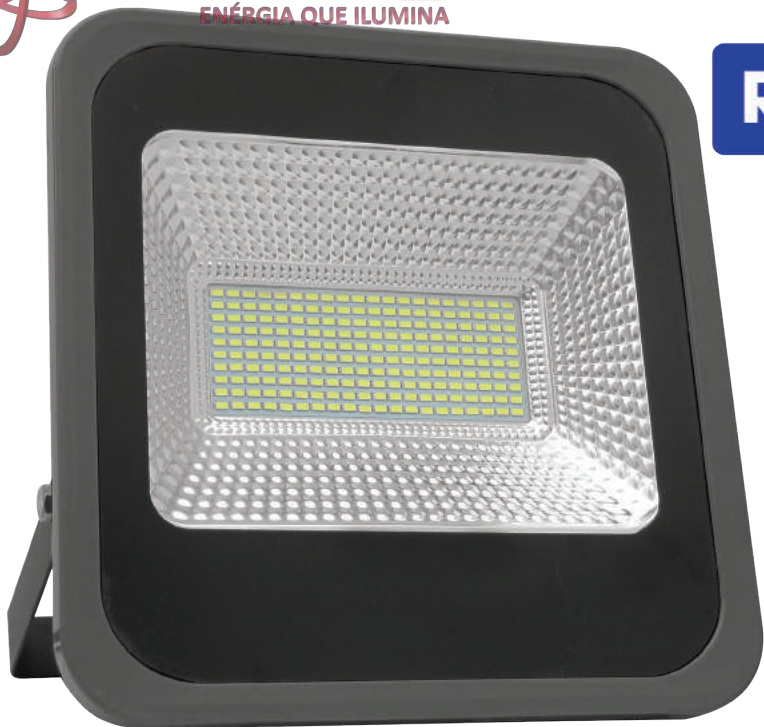
3 AÑOS DE GARANTIA



| CLAVE          | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES    | TIPO SMD | IP    |
|----------------|-------------|-----------|-------|-------------|------------|----------|----------------|----------|-------|
| ML-REF-100WSMD | 6500k       | 85-265 V~ | 100 W | 9000 Lm     | 140 Grados | Aluminio | 384*284*170 mm | SMD 5730 | IP 65 |
| ML-REF-150WSMD | 6500k       | 85-265 V~ | 150 W | 13700 Lm    | 140 Grados | Aluminio | 425*325*165 mm | SMD 5730 | IP 65 |
| ML-REF-200WSMD | 6500k       | 85-265 V~ | 200 W | 16700 Lm    | 140 Grados | Aluminio | 425*325*170 mm | SMD 5730 | IP 65 |
| ML-REF-250WSMD | 6500k       | 85-265 V~ | 250 W | 20500 Lm    | 140 Grados | Aluminio | 525*325*183 mm | SMD 5730 | IP 65 |
| ML-REF-300WSMD | 6500k       | 85-265 V~ | 300 W | 24000 Lm    | 140 Grados | Aluminio | 597*325*190 mm | SMD 5730 | IP 65 |
| ML-REF-400WSMD | 6500k       | 85-265 V~ | 400 W | 32000 Lm    | 140 Grados | Aluminio | 597*325*190 mm | SMD 5730 | IP 65 |
| ML-REF-500WSMD | 6500k       | 85-265 V~ | 500 W | 40000 Lm    | 140 Grados | Aluminio | 820*330*190 mm | SMD 5730 | IP 65 |

# REFLECTORES SLIM SMD

**2 AÑOS DE GARANTIA**



| CLAVE      | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES   | TIPO SMD | IP    |
|------------|-------------|-----------|-------|-------------|------------|----------|---------------|----------|-------|
| RAZ-50W-BB | 6500k       | 85-265 V~ | 50W   | 4000 Lm     | 120 Grados | Aluminio | 285*272*68 mm | SMD 5730 | IP 65 |
| RAZ-100W   | 6500k       | 85-265 V~ | 100W  | 8000 Lm     | 120 Grados | Aluminio | 305*285*85 mm | SMD 5730 | IP 65 |

# REFLECTORES SLIM SMD

2 AÑOS DE GARANTÍA



| CLAVE      | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES   | TIPO SMD | IP    |
|------------|-------------|-----------|-------|-------------|------------|----------|---------------|----------|-------|
| RWY-50W-BB | 6500k       | 85-265 V~ | 50W   | 4250 Lm     | 120 Grados | Aluminio | 205*250*60 mm | SMD 2835 | IP 66 |
| RWY-100W   | 6500k       | 85-265 V~ | 100W  | 8500 Lm     | 120 Grados | Aluminio | 255*285*65 mm | SMD 2835 | IP 66 |
| RWY-200W   | 6500k       | 85-265 V~ | 200W  | 17000 Lm    | 120 Grados | Aluminio | 360*410*80 mm | SMD 2835 | IP 66 |

# REFLECTOR SLIM SMD

**2 AÑOS DE GARANTIA**



| CLAVE              | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD      | MATERIAL  | DIMENSIONES   | TIPO DE SMD | IP    |
|--------------------|-------------|-----------|-------|------------------|-----------|---------------|-------------|-------|
| ML-RSL-10WSMDBB/BC | 6500k/3500k | 85-265 V~ | 10 W  | 950 Lm/ 900 Lm   | Aluminio. | 111*85*40 mm  | SMD 5730    | IP 65 |
| ML-RSL-20WSMDBB/BC | 6500k/3500k | 85-265 V~ | 20 W  | 2000 Lm/ 1850 Lm | Aluminio. | 181*140*44 mm | SMD 5730    | IP 65 |
| ML-RSL-30WSMDBB/BC | 6500k/3500k | 85-265 V~ | 30 W  | 3000 Lm/ 2750 Lm | Aluminio. | 226*186*52 mm | SMD 5730    | IP 65 |
| ML-RSL-50WSMDBB/BC | 6500k/3500k | 85-265 V~ | 50 W  | 5100 Lm/ 5000 Lm | Aluminio. | 290*238*62 mm | SMD 5730    | IP 65 |
| ML-RSL-100WSMD     | 6500k       | 85-265 V~ | 100 W | 9400 Lm          | Aluminio. | 337*299*75 mm | SMD 5730    | IP 65 |

# REFLECTORES SLIM SMD

2 AÑOS DE GARANTÍA



| CLAVE        | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES   | TIPO SMD | IP    |
|--------------|-------------|-----------|-------|-------------|------------|----------|---------------|----------|-------|
| RFI-B-10W-BB | 6500k       | 85-265 V~ | 10W   | 900 Lm      | 120 Grados | Aluminio | 120*95*33 mm  | SMD 5730 | IP 65 |
| RFI-B-20W-BB | 6500k       | 85-265 V~ | 20W   | 1800 Lm     | 120 Grados | Aluminio | 170*127*35 mm | SMD 5730 | IP 65 |
| RFI-B-30W-BB | 6500k       | 85-265 V~ | 30W   | 2700 Lm     | 120 Grados | Aluminio | 215*157*38 mm | SMD 5730 | IP 65 |
| RFI-B-50W-BB | 6500k       | 85-265 V~ | 50W   | 4500 Lm     | 120 Grados | Aluminio | 252*190*43 mm | SMD 5730 | IP 65 |

# REFLECTORES SLIM SMD

**2 AÑOS DE GARANTIA**



| CLAVE       | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES   | TIPO SMD | IP    |
|-------------|-------------|-----------|-------|-------------|------------|----------|---------------|----------|-------|
| RFI-10W-BB  | 6500k       | 85-265 V~ | 10W   | 900 Lm      | 120 Grados | Aluminio | 120*95*33 mm  | SMD 5730 | IP 65 |
| RFI-20W-BB  | 6500k       | 85-265 V~ | 20W   | 1800 Lm     | 120 Grados | Aluminio | 170*127*35 mm | SMD 5730 | IP 65 |
| RFI-30W-BB  | 6500k       | 85-265 V~ | 30W   | 2700 Lm     | 120 Grados | Aluminio | 215*157*38 mm | SMD 5730 | IP 65 |
| RFI-50W-BB  | 6500k       | 85-265 V~ | 50W   | 4500 Lm     | 120 Grados | Aluminio | 252*190*43 mm | SMD 5730 | IP 65 |
| RFI-100W-BB | 6500k       | 85-265 V~ | 100W  | 9000 Lm     | 120 Grados | Aluminio | 334*258*55 mm | SMD 5730 | IP 65 |
| RFI-200W-BB | 6500k       | 85-265 V~ | 200W  | 19000 Lm    | 120 Grados | Aluminio | 450*330*80 mm | SMD 5730 | IP 65 |

# REFLECTORES RGB

**2 AÑOS DE GARANTIA**



| CLAVE         | TEMPERATURA     | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL         | DIMENSIONES    | TIPO DE LED | IP    |
|---------------|-----------------|-----------|-------|-------------|------------|------------------|----------------|-------------|-------|
| ML-REF-10W-RG | RGB con control | 85-265 V~ | 10 W  | =           | 120 Grados | Alum.color Gris  | 113*85*77 mm   | LED HP      | IP 65 |
| ML-REF-20W-RG | RGB con control | 85-265 V~ | 20 W  | =           | 120 Grados | Alum.color Gris  | 180*140*100 mm | LED HP      | IP 65 |
| ML-REF-30W-RG | RGB con control | 85-265 V~ | 30 W  | =           | 120 Grados | Alum. color Gris | 224*185*110 mm | LED HP      | IP 65 |
| ML-REF-50W-RG | RGB con control | 85-265 V~ | 50 W  | =           | 120 Grados | Alum.color Gris  | 283*233*117 mm | LED HP      | IP 65 |
| ML-RSL-30W-RG | RGB con control | 85-265 V~ | 30 W  | =           | 120 Grados | Alum. color Gris | 226*186*52 mm  | LED HP      | IP 65 |
| ML-RSL-50W-RG | RGB con control | 85-265 V~ | 50 W  | =           | 120 Grados | Alum.color Gris  | 290*238*62 mm  | LED HP      | IP 65 |

# REFLECTORES con sensor

**2 AÑOS DE GARANTIA**



| CLAVE           | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | MATERIAL      | DIMENSIONES    | TIPO DE LED | IP    |
|-----------------|-------------|-----------|-------|-------------|---------------|----------------|-------------|-------|
| ML-REF-10W-BBSR | 6500 k      | 85-265 V~ | 10 W  | 1000 Lm     | Aluminio + PC | 114*85*80 mm   | LED SMD     | IP 65 |
| ML-REF-20W-BBSR | 6500 k      | 85-265 V~ | 20 W  | 1900 Lm     | Aluminio + PC | 180*140*98 mm  | LED SMD     | IP 65 |
| ML-REF-30W-BBSR | 6500 k      | 85-265 V~ | 30 W  | 2900 Lm     | Aluminio + PC | 224*185*123 mm | LED SMD     | IP 65 |

# REFLECTORES SMD

2 AÑOS DE GARANTÍA



| CLAVE      | TEMPERATURA | VOLTAJE     | WATTS | LUMINOSIDAD | ANGULO    | MATERIAL | DIMENSIONES     | IP    |
|------------|-------------|-------------|-------|-------------|-----------|----------|-----------------|-------|
| RML-50W-BB | 6500 K      | 85 - 265 V~ | 50W   | 4700 Lm     | 30 Grados | AL + PC  | 250*110*42 mm   | IP 65 |
| RBX-30W-BB | 6500 K      | 85 - 265 V~ | 30W   | 2850Lm      | 60 Grados | AL + PL  | 162*149*33 mm   | IP 65 |
| RBX-50W-BB | 6500 K      | 85 - 265 V~ | 50W   | 4750 Lm     | 60 Grados | AL + PL  | 2165*2055*78 mm | IP 65 |
| RBX-70W-BB | 6500 K      | 85 - 265 V~ | 70W   | 6650 Lm     | 60 Grados | AL + PL  | 2165*2055*78 mm | IP 65 |

# CAMPANAS KH

**5 AÑOS DE GARANTIA**



| CLAVE      | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES  | TIPO SMD | IP    |
|------------|-------------|------------|-------|-------------|------------|----------|--------------|----------|-------|
| KH-UF-150W | 6000k       | 100-305 V~ | 150W  | 18600 Lm    | 120 Grados | Aluminio | ø330 H130 mm | SMD 3535 | IP 65 |
| KH-UF-200W | 6000k       | 100-305 V~ | 200W  | 24800 Lm    | 120 Grados | Aluminio | ø330 H130 mm | SMD 3535 | IP 65 |

# CAMPANAS SMD

3 AÑOS DE GARANTIA



| CLAVE          | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES  | SMD      |
|----------------|-------------|-----------|-------|-------------|------------|----------|--------------|----------|
| ML-CAM-50WSMD  | 6500 k      | 85-265 V~ | 50 W  | 4700 Lm     | 120 Grados | Aluminio | ø450 H370 mm | SMD 5730 |
| ML-CAM-100WSMD | 6500 k      | 85-265 V~ | 100 W | 9600 Lm     | 120 Grados | Aluminio | ø450 H400 mm | SMD 5730 |
| ML-CAM-150WSMD | 6500 k      | 85-265 V~ | 150 W | 14400 Lm    | 120 Grados | Aluminio | ø494 H500 mm | SMD 5730 |
| ML-CAM-200WSMD | 6500 k      | 85-265 V~ | 200 W | 19100 Lm    | 120 Grados | Aluminio | ø494 H500 mm | SMD 5730 |

# CAMPANAS UFO

**3 AÑOS DE GARANTIA**



| CLAVE       | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES  | TIPO SMD | IP    |
|-------------|-------------|-----------|-------|-------------|------------|----------|--------------|----------|-------|
| CAM-50W-UF  | 6500k       | 85-265 V~ | 50W   | 4500 Lm     | 120 Grados | Aluminio | ø235 H80 mm  | SMD 3535 | IP 65 |
| CAM-100W-UF | 6500k       | 85-265 V~ | 100W  | 9000 Lm     | 120 Grados | Aluminio | ø295 H90 mm  | SMD 3535 | IP 65 |
| CAM-150W-UF | 6500k       | 85-265 V~ | 150W  | 13500 Lm    | 120 Grados | Aluminio | ø345 H95 mm  | SMD 3535 | IP 65 |
| CAM-200W-UF | 6500k       | 85-265 V~ | 200W  | 18000 Lm    | 120 Grados | Aluminio | ø395 H105 mm | SMD 3535 | IP 65 |

# LUMINARIAS

2 AÑOS DE GARANTIA



FSL50W



FAL42W

| CLAVE  | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES    | IP    |
|--------|-------------|------------|-------|-------------|------------|----------|----------------|-------|
| FAL42W | 6500k       | 100-240 V~ | 42W   | 4200 Lm     | 120 Grados | Aluminio | 335*280*240 mm | IP 65 |
| FSL50W | 6500k       | 100-240 V~ | 50W   | 3600 Lm     | 120 Grados | Aluminio | 372*250*150 mm | IP 65 |



FWL15W

# LUMINARIAS

**2 AÑOS DE GARANTIA**



| CLAVE  | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | MATERIAL | DIMENSIONES    | BASE | IP    |
|--------|-------------|------------|-------|-------------|----------|----------------|------|-------|
| FWL15W | 5000k       | 90-260 V~  | 15W   | 1200 Lm     | ABS+PC   | 278*172*80 mm  | N/A  | IP 55 |
| FSP65W | N/A         | 100-240 V~ | N/A   | N/A         | ABS+PS   | 245*285*150 mm | E27  | IP 44 |
| FSP85W | N/A         | 100-240 V~ | N/A   | N/A         | ABS+PS   | 310*345*165 mm | E39  | IP 44 |

# LÁMPARAS LED

3 AÑOS DE GARANTÍA



| CLAVE        | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | PF  | ANGULO     | MATERIAL  | DIMENSIONES | BASE | IP    |
|--------------|-------------|------------|-------|-------------|-----|------------|-----------|-------------|------|-------|
| ML-TN-20W-BB | 6500k       | 100-240 V~ | 20W   | 1800 Lm     | 0.9 | 270 Grados | Al + PMMA | ø80*145 mm  | E27  | IP 20 |
| ML-TN-30W-BB | 6500k       | 100-240 V~ | 30W   | 2700 Lm     | 0.9 | 270 Grados | Al + PMMA | ø100*185 mm | E27  | IP 20 |
| ML-TN-40W-BB | 6500k       | 100-240 V~ | 40W   | 3600 Lm     | 0.9 | 270 Grados | Al + PMMA | ø120*210 mm | E27  | IP 20 |
| ML-TN-50W-BB | 6500k       | 100-240 V~ | 50W   | 4500 Lm     | 0.9 | 270 Grados | Al + PMMA | ø140*230 mm | E27  | IP 20 |

# LÁMPARAS INDUSTRIALES

**3 AÑOS DE GARANTIA**



| CLAVE         | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | PF  | ANGULO     | MATERIAL  | DIMENSIONES | BASE | IP    |
|---------------|-------------|------------|-------|-------------|-----|------------|-----------|-------------|------|-------|
| ML-LN-60W-BB  | 6500k       | 100-240 V~ | 60W   | 5700 Lm     | 0.9 | 150 Grados | Al + PMMA | ø145*215 mm | E27  | IP 20 |
| ML-LN-80W-BB  | 6500k       | 100-240 V~ | 80W   | 7600 Lm     | 0.9 | 150 Grados | Al + PMMA | ø170*227 mm | E39  | IP 20 |
| ML-LN-100W-BB | 6500k       | 100-240 V~ | 100W  | 9500 Lm     | 0.9 | 150 Grados | Al + PMMA | ø190*270 mm | E39  | IP 20 |

# BULBOS LED

2 AÑOS DE GARANTÍA

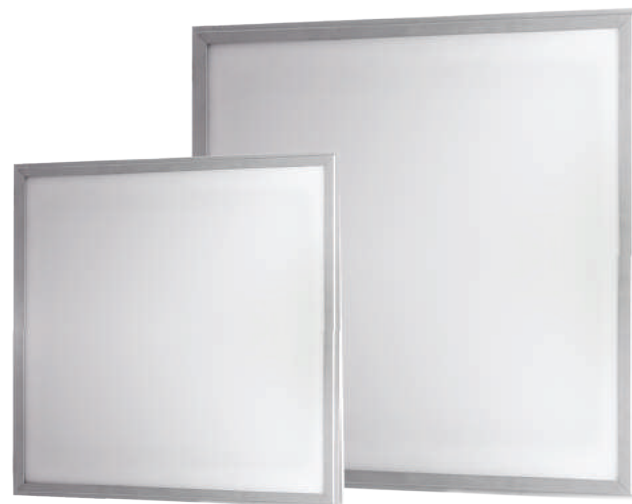


| CLAVE        | TEMPERATURA | VOLTAJE     | WATTS | LUMINOSIDAD | PF  | MATERIAL      | DIMENSIONES | BASE | IP    |
|--------------|-------------|-------------|-------|-------------|-----|---------------|-------------|------|-------|
| ML-BUL-9W-BB | 6500k       | 85 - 265 V~ | 9W    | 840 Lm      | 0.7 | Aluminio + PC | ø60*108 mm  | E27  | IP 20 |
| ML-TX-25W-BB | 6500k       | 85 - 265 V~ | 25W   | 2150 Lm     | 0.9 | Aluminio + PC | ø83*205 mm  | E27  | IP 20 |
| ML-TB-35W-BB | 6500k       | 85 - 265 V~ | 35W   | 3200 Lm     | 0.9 | Aluminio + PC | ø88*290 mm  | E27  | IP 20 |



# PANELES LED

**2 AÑOS DE GARANTIA**



| CLAVE          | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL        | DIMENSIONES    | IP    |
|----------------|-------------|------------|-------|-------------|------------|-----------------|----------------|-------|
| ML-PA-30X30    | 6500K       | 100-240 V~ | 12 W  | 900 Lm      | 140 Grados | Aluminio + PMMA | 298*298*10 mm  | IP 44 |
| ML-PA-30X120   | 6500K       | 100-240 V~ | 36 W  | 2700 Lm     | 140 Grados | Aluminio + PMMA | 1195*295*10 mm | IP 44 |
| ML-PA-60X60    | 6500K       | 100-240 V~ | 36 W  | 2800 Lm     | 140 Grados | Aluminio + PMMA | 595*595*10 mm  | IP 44 |
| ML-PA-60X120   | 6500K       | 100-240 V~ | 72 W  | 5500 Lm     | 140 Grados | Aluminio + PMMA | 1196*596*10 mm | IP 44 |
| ML-PAGR-60X120 | 6500K       | 100-240 V~ | 72 W  | 4950 Lm     | 140 Grados | PMMA            | 1196*596*10 mm | IP 44 |
| PLS-60X60      | 6500K       | 100-240 V~ | 36 W  | 3250 Lm     | 140 Grados | Aluminio + PMMA | 595*595*10 mm  | IP 44 |

# TUBOS LED T8

3 AÑOS DE GARANTIA



| CLAVE           | BASE | TEMP.  | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL  | DIMENSIONES | TERMINADO    | IP    |
|-----------------|------|--------|-----------|-------|-------------|------------|-----------|-------------|--------------|-------|
| ML-TU-G13-9W    | G13  | 6500 k | 85-265 V~ | 9 W   | 950 Lm      | 140 Grados | PC + Alum | 606*26 mm   | TRANSPARENTE | IP 20 |
| ML-TU-TRA-18W   | G13  | 6500 k | 85-265 V~ | 18 W  | 1800 Lm     | 140 Grados | PC + Alum | 1215*26 mm  | TRANSPARENTE | IP 20 |
| ML-TU-OPA-18W   | G13  | 6500 k | 85-265 V~ | 18 W  | 1700 Lm     | 140 Grados | PC + Alum | 1216*26 mm  | OPALINO      | IP 20 |
| ML-TU-TRA-20WBN | G13  | 4100 k | 85-265 V~ | 20 W  | 1850 Lm     | 140 Grados | PC + Alum | 1215*26 mm  | TRANSPARENTE | IP 20 |
| ML-TU-G13-28W   | G13  | 6500 k | 85-265 V~ | 28 W  | 2800 Lm     | 140 Grados | PC + Alum | 1215*26 mm  | TRANSPARENTE | IP 20 |
| PLS-TU-TRA-18W  | G13  | 6500 k | 85-265 V~ | 18 W  | 2500 Lm     | 140 Grados | PC + Alum | 1215*26 mm  | TRANSPARENTE | IP 20 |

# TUBOS T8 SLIM

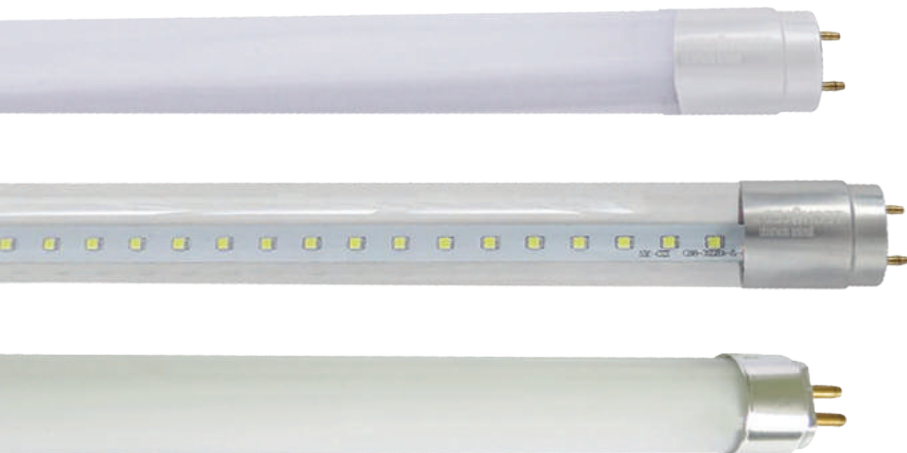
**3 AÑOS DE GARANTIA**



| CLAVE         | BASE | TEMP.  | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL   | DIMENSIONES | TERMINADO    | IP    |
|---------------|------|--------|-----------|-------|-------------|------------|------------|-------------|--------------|-------|
| ML-TU-SLM-20W | FA8  | 6500 k | 85-265 V~ | 20 W  | 1850 Lm     | 140 Grados | PC + Alum. | 1170*26 mm  | TRANSPARENTE | IP 20 |
| ML-TU-OPA-40W | FA8  | 6500 k | 85-265 V~ | 40W   | 3700 Lm     | 140 Grados | PC + Alum. | 2385*26 mm  | OPALINO      | IP 20 |
| ML-TU-SLM-36W | FA8  | 6500 k | 85-265 V~ | 36 W  | 3750 Lm     | 140 Grados | PC + Alum. | 2385*26 mm  | TRANSPARENTE | IP 20 |
| ML-TU-SLM-48W | FA8  | 6500 k | 85-265 V~ | 48 W  | 5000 Lm     | 140 Grados | PC + Alum. | 2385*26 mm  | TRANSPARENTE | IP 20 |

# TUBOS DE CRISTAL T8 & T5

**3 AÑOS DE GARANTIA**



| CLAVE           | BASE | TEMP. | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | TIPO DE SMD | DIMENSIONES | TERMINADO    | IP    |
|-----------------|------|-------|-----------|-------|-------------|------------|-------------|-------------|--------------|-------|
| ML-TU-CR-9W-TR  | G13  | 6500K | 85-265 V~ | 9 W   | 950 Lm      | 270 grados | SMD 2835    | 605*26 mm   | TRANSPARENTE | IP 20 |
| ML-TU-CR-18W    | G13  | 6500K | 85-265 V~ | 18 W  | 1750 Lm     | 270 grados | SMD 2835    | 1212*26 mm  | OPALINO      | IP 20 |
| ML-TU-CR-18W-TR | G13  | 6500K | 85-265 V~ | 18 W  | 1800 Lm     | 270 grados | SMD 2835    | 1212*26 mm  | TRANSPARENTE | IP 20 |
| ML-T5-CR-9W     | G5   | 6500K | 90-140 V~ | 9 W   | 900 Lm      | 270 grados | SMD 3014    | 565*16 mm   | OPALINO      | IP 20 |
| ML-T5-CR-9W-TR  | G5   | 6500K | 90-140 V~ | 9 W   | 1000 Lm     | 270 grados | SMD 3014    | 565*16 mm   | TRANSPARENTE | IP 20 |
| ML-T5-CR-18W    | G5   | 6500K | 90-140 V~ | 18 W  | 1750 Lm     | 270 grados | SMD 3014    | 1170*16 mm  | OPALINO      | IP 20 |
| ML-T5-CR-18W-TR | G5   | 6500K | 90-140 V~ | 18 W  | 1800 Lm     | 270 grados | SMD 3014    | 1170*16 mm  | TRANSPARENTE | IP 20 |

# TUBOS T5 Y CURVALUM

**3 AÑOS DE GARANTIA**



| CLAVE           | BASE | TEMP. | VOLTAJE    | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL  | DIMENSIONES | TERMINADO    | IP    |
|-----------------|------|-------|------------|-------|-------------|------------|-----------|-------------|--------------|-------|
| ML-TU-T5-9W     | G5   | 6500K | 85-265 V~  | 9 W   | 900 Lm      | 140 Grados | PC + Alum | 563 mm      | OPALINO      | IP 20 |
| ML-TU-T5-9W-TR  | G5   | 6500K | 85-265 V~  | 9 W   | 950 Lm      | 140 Grados | PC + Alum | 563 mm      | TRANSPARENTE | IP 20 |
| ML-TU-T5-18W-OP | G5   | 6500K | 90-140 V~  | 18 W  | 1800 Lm     | 140 Grados | PC + Alum | 1163 mm     | OPALINO      | IP 20 |
| ML-TU-T5-18W-TR | G5   | 6500K | 85-265 V~  | 18 W  | 1900 Lm     | 140 Grados | PC + Alum | 1163 mm     | TRANSPARENTE | IP 20 |
| ML-TU-CUR-18W   | G13  | 6500K | 100-265 V~ | 18W   | 1900 Lm     | 140 Grados | PC + Alum | 600 mm      | TRANSPARENTE | IP 20 |

## TUBOS INTEGRADOS T8 & T5

# DOWNLIGHTS

**2 AÑOS DE GARANTIA**



| CLAVE             | TEMPERATURA   | VOLTAJE   | WATTS | LUMINOSIDAD    | ANGULO     | MATERIAL        | DIMENSIONES    | IP    |
|-------------------|---------------|-----------|-------|----------------|------------|-----------------|----------------|-------|
| ML-DL-7W-BB / BC  | 6500K / 3500K | 85-265 V~ | 7 W   | 700 / 630 Lm   | 140 Grados | Aluminio + PMMA | Ø110*90*40 mm  | IP 44 |
| ML-DL-12W-BB / BC | 6500K / 3500K | 85-265 V~ | 12 W  | 1100 / 1000 Lm | 140 Grados | Aluminio + PMMA | Ø148*102*45 mm | IP 44 |

# DOWNLIGHT SLIM

2 AÑOS DE GARANTÍA



| CLAVE               | TEMPERATURA   | VOLTAJE   | WATTS | LUMINOSIDAD    | MATERIAL        | DIMENSIONES    | IP    |
|---------------------|---------------|-----------|-------|----------------|-----------------|----------------|-------|
| ML-PDL-7W-BB / BC   | 6500K / 3500K | 85-265 V~ | 7 W   | 550 / 500 Lm   | Aluminio + PMMA | Ø118*104*20mm  | IP 44 |
| ML-PDL-12W-BB / BC  | 6500K / 3500K | 85-265 V~ | 12 W  | 1050 / 980 Lm  | Aluminio + PMMA | Ø172*153*24mm  | IP 44 |
| ML-PDL-18W-BB / BC  | 6500K / 3500K | 85-265 V~ | 18 W  | 1600 / 1500 Lm | Aluminio + PMMA | Ø*225*200*25mm | IP 44 |
| ML-PDSQ-12W-BB / BC | 6500K / 3500K | 85-265 V~ | 12 W  | 1050 / 980 Lm  | Aluminio + PMMA | Ø*170*150*11mm | IP 44 |

## CEILING LIGHT Y REPUESTO

**2 AÑOS DE GARANTIA**



| CLAVE           | TEMPERATURA   | VOLTAJE   | WATTS | LUMINOSIDAD   | ANGULO     | MATERIAL      | DIMENSIONES    | IP    |
|-----------------|---------------|-----------|-------|---------------|------------|---------------|----------------|-------|
| ML-CL-3W-BB/BC  | 6500K / 3500K | 85-265 V~ | 3 W   | 270 / 245 Lm  | 25 Grados  | Aluminio      | Ø69*60*44 mm   | IP 44 |
| ML-CL-5W-BB/BC  | 6500K / 3500K | 85-265 V~ | 5 W   | 450 / 410 Lm  | 25 Grados  | Aluminio      | Ø85*75*44 mm   | IP 44 |
| ML-CL-7W-BB/BC  | 6500K / 3500K | 85-265 V~ | 7 W   | 630 / 570 Lm  | 25 Grados  | Aluminio      | Ø108*65*84 mm  | IP 44 |
| ML-CL-9W-BB/BC  | 6500K / 3500K | 85-265 V~ | 9 W   | 810 / 730 Lm  | 25 Grados  | Aluminio      | Ø109*90*61 mm  | IP 44 |
| ML-CL-12W-BB/BC | 6500K / 3500K | 85-265 V~ | 12 W  | 1000 / 900 Lm | 25 Grados  | Aluminio      | Ø139*69*108 mm | IP 44 |
| ML-RCL-12W-BB   | 6500k         | 85-265 V~ | 12 W  | 1000 Lm       | 120 Grados | Aluminio + PC | Ø166*21 mm     | IP 44 |
| ML-RCL-16W-BB   | 6500k         | 85-265 V~ | 16 W  | 1300 Lm       | 120 Grados | Aluminio + PC | Ø220*21mm      | IP 44 |
| ML-RCL-24W-BB   | 6500k         | 85-265 V~ | 24 W  | 2000 Lm       | 120 Grados | Aluminio + PC | Ø288*21 mm     | IP 44 |

# MANGUERAS LED 5050

1 AÑO DE GARANTIA



| CLAVE             | TEMPERATURA     | VOLTAJE | WATTS   | PRESENTACIÓN  | MATERIAL     | TIPO DE LED | IP    |
|-------------------|-----------------|---------|---------|---------------|--------------|-------------|-------|
| ML-ML25-BB/BC     | 6500 k / 3500 k | 127V~   | 14.4W/m | Rollo de 25 m | Resina Trans | SMD 5050    | IP 65 |
| ML-ML25-BBE / BCE | 6500 k / 3500 k | 127V~   | 7.2W/m  | Rollo de 25 m | Resina Trans | SMD 5050    | IP 65 |
| ML-ML25-RG        | RGB             | 127V~   | 14.4W/m | Rollo de 25 m | Resina Trans | SMD 5050    | IP 65 |

# TIRAS LED 2835/5050

**1 AÑO DE GARANTIA**



| CLAVE                   | TEMPERATURA    | VOLTAJE | WATTS    | LEDS/METRO | ACCESORIOS  | PRESENTACIÓN  | TIPO DE LED | IP    |
|-------------------------|----------------|---------|----------|------------|-------------|---------------|-------------|-------|
| ML-T1-2835-300-BB/BC-NW | 6500 K/ 3500 K | 12Vcc   | 4.8 W/m  | 60 led/mt  | -           | Rollo de 5m   | SMD 2835    | IP 20 |
| ML-T1-2835-300-BB/BC-WP | 6500 K/ 3500 K | 12Vcc   | 4.8 W/m  | 60 led/mt  | -           | Rollo de 5m   | SMD 2835    | IP 65 |
| ML-T1-5050-300-BB-NW    | 6500 K         | 12Vcc   | 14.4 W/m | 60 led/mt  | -           | Rollo de 5m   | SMD 5050    | IP 20 |
| ML-T1-5050-300-BC-NW    | 3500 K         | 12Vcc   | 14.4 W/m | 60 led/mt  | -           | Rollo de 5m   | SMD 5050    | IP 20 |
| ML-T1-5050-300-BB-WP    | 6500 K         | 12Vcc   | 14.4 W/m | 60 led/mt  | -           | Rollo de 5m   | SMD 5050    | IP 65 |
| BL2835-300-BB-NW        | 6500 K         | 12Vcc   | 4.8 W/m  | 60 led/mt  | Fuente 24 W | Blister de 5m | SMD 2835    | IP 20 |
| BL5050-300-BB-NW        | 6500 K         | 12Vcc   | 14.4 W/m | 60 led/mt  | Fuente 72 W | Blister de 5m | SMD 5050    | IP 20 |
| BL5050-300-BC-NW        | 3500 K         | 12Vcc   | 14.4 W/m | 60 led/mt  | Fuente 72 W | Blister de 5m | SMD 5050    | IP 20 |

# FUENTES DE PODER

1 AÑOS DE GARANTÍA



| CLAVE         | VOLTAJE DE ENTRADA | POTENCIA | VOLTAJE SALIDA | MATERIAL             | DIMENSIONES   | IP    |
|---------------|--------------------|----------|----------------|----------------------|---------------|-------|
| ML-FP-24W-12  | 85 - 240 V~        | 24 W     | 12 Vcc         | Plástico con clavija | 85*46*35 mm   | IP 20 |
| ML-FP-40W-12  | 90 - 260 V~        | 40 W     | 12 Vcc         | Aluminio             | 85*58*33 mm   | IP 20 |
| ML-FP-60W-12  | 90 - 260 V~        | 60 W     | 12 Vcc         | Aluminio             | 112*78*36 mm  | IP 20 |
| ML-FP-72W-12  | 85 - 240 V~        | 72 W     | 12 Vcc         | Plástico con clavija | 113*51*32 mm  | IP 20 |
| ML-FP-120W-12 | 90 - 260 V~        | 120 W    | 12 Vcc         | Aluminio             | 160*97*43 mm  | IP 20 |
| ML-FP-150W-12 | 110 / 220 V~       | 150 W    | 12 Vcc         | Aluminio             | 198*96*43 mm  | IP 20 |
| ML-FP-250W-12 | 110 / 220 V~       | 250 W    | 12 Vcc         | Aluminio             | 200*110*50 mm | IP 20 |

## LUMINARIAS Y GABINETES IP65

**2 AÑOS DE GARANTIA**



| CLAVE          | TEMPERATURA | VOLTAJE    | WATTS | LUMINOSIDAD | ANGULO     | MEDIDAS        | IP    |
|----------------|-------------|------------|-------|-------------|------------|----------------|-------|
| ML-GST3-IP65-A | 6500 K      | 85-265 V~  | 36 W  | 3000 Lm     | 140 Grados | 1210*75*68 mm  | IP 65 |
| ML-GST2-IP65   | N/A         | 100-265 V~ | 36 W  | N/A         | 140 Grados | 1265*125*85 mm | IP 65 |
| GST32W         | 6000K       | 85-265 V~  | 32 W  | 2700 Lm     | 140 Grados | 1230*132*43 mm | IP 65 |

# GABINETES

2 AÑOS DE GARANTIA



ML-WL-LT



ML-G120-T8HR7



ML-G120-T8HR6



ML-G120T8FG

|                 |             |               |              |             |
|-----------------|-------------|---------------|--------------|-------------|
| <b>Modelo:</b>  | ML-WL-LT    | ML-G120-T8HR7 | ML-G120T8HR6 | ML-G120T8FG |
| <b># Tubos:</b> | 3200 Lm     | 2XT8          | 2XT8         | 2XT8        |
| <b>Watts:</b>   | 40 W        | 36 W          | 36 W         | 36 W        |
| <b>Voltaje:</b> | 85-265Vca   | 85-265Vca     | 85-265Vca    | 85-265Vca   |
| <b>Base:</b>    | Luminaria   | G13           | G13          | G13         |
| <b>Medidas:</b> | 1230*132*43 | 1230*132*43   | 1230*132*43  | 1230*160*65 |
| <b>Tipo:</b>    | Sobrepuesto | Sobrepuesto   | Sobrepuesto  | Sobrepuesto |

# WALL-LAMPS

**2 AÑOS DE GARANTIA**



| CLAVE     | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MEDIDAS | IP    |
|-----------|-------------|-----------|-------|-------------|------------|---------|-------|
| ML-WL-20W | 6500 K      | 85-265 V~ | 20 W  | 1600 Lm     | 140 Grados | 600 mm  | IP 44 |
| ML-WL-30W | 6500 K      | 85-265 V~ | 30 W  | 2400 Lm     | 140 Grados | 900 mm  | IP 44 |
| ML-WL-36W | 6500 K      | 85-265 V~ | 36 W  | 2800 Lm     | 140 Grados | 900 mm  | IP 44 |
| ML-WL-40W | 6500 K      | 85-265 V~ | 40 W  | 3400 Lm     | 140 Grados | 1200 mm | IP 44 |



MARCA COMERCIAL



# TUBOS DLM

**2 AÑOS DE GARANTIA**



| CLAVE        | COLOR | VOLTAJE    | WATTS | LUMINOSIDAD | MATERIAL        | DIMENSIONES |
|--------------|-------|------------|-------|-------------|-----------------|-------------|
| DL-TU9W-TR   | 6500K | 85-265 V~  | 9 W   | 850 Lm      | Aluminio + PC   | 606*26 mm   |
| DL-TU18W-TR  | 6500K | 85-265 V~  | 18 W  | 1550 Lm     | Aluminio + PC   | 1215*26 mm  |
| DL-TU36W-TR  | 6500K | 85-265 V~  | 36 W  | 3100 Lm     | Aluminio + PC   | 2385*26 mm  |
| ML-TU-CR1    | 6500K | 100-240 V~ | 18 W  | 1800 Lm     | Cristal         | 1215*26 mm  |
| ML-TU-OP-CR1 | 6500K | 100-240 V~ | 18 W  | 1700 Lm     | Cristal Opalino | 1215*26 mm  |

# TUBOS INTEGRADOS T8

2 AÑOS DE GARANTIA



| CLAVE          | TUBO | TEMP. | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL  | DIMENSIONES   | TERMINADO    | IP    |
|----------------|------|-------|-----------|-------|-------------|------------|-----------|---------------|--------------|-------|
| DLM-TU-INT-18W | T8   | 6500K | 85-265 V~ | 9 W   | 1850 Lm     | 140 Grados | PC + Alum | 1208*31*33 mm | TRANSPARENTE | IP 20 |
| DLM-TU-INT-36W | T8   | 6500K | 85-265 V~ | 18 W  | 3700Lm      | 140 Grados | PC + Alum | 2390*31*33 mm | TRANSPARENTE | IP 20 |

# REFLECTORES

**2 AÑOS DE GARANTIA**



| CLAVE          | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL | DIMENSIONES    | TIPO SMD | IP    |
|----------------|-------------|-----------|-------|-------------|------------|----------|----------------|----------|-------|
| RSL1-10WSMD-BB | 6500k       | 85-265 V~ | 10 W  | 1000 Lm     | 140 Grados | Aluminio | 113*85*77 mm   | SMD 5730 | IP 65 |
| RSL1-20WSMD-BB | 6500k       | 85-265 V~ | 20 W  | 2000 Lm     | 140 Grados | Aluminio | 180*140*100 mm | SMD 5730 | IP 65 |
| RSL1-30WSMD-BB | 6500k       | 85-265 V~ | 30 W  | 3000 Lm     | 140 Grados | Aluminio | 224*185*110 mm | SMD 5730 | IP 65 |
| RSL1-50WSMD-BB | 6500k       | 85-265 V~ | 50 W  | 5000 Lm     | 140 Grados | Aluminio | 283*233*117 mm | SMD 5730 | IP 65 |

# PANEL DOWNLIGHTS

2 AÑOS DE GARANTIA



| CLAVE        | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL     | DIMENSIONES   | TIPO SMD | IP    |
|--------------|-------------|-----------|-------|-------------|------------|--------------|---------------|----------|-------|
| DLM-PDL12WBB | 6500k       | 85-265 V~ | 12W   | 900 Lm      | 120 Grados | Alum. + PMMA | Ø172*150*20mm | SMD 5730 | IP 44 |
| DLM-PDL18WBB | 6500k       | 85-265 V~ | 18W   | 1350 Lm     | 120 Grados | Alum. + PMMA | Ø223*205*20mm | SMD 5730 | IP 44 |
| DLM-PDL24WBB | 6500k       | 85-265 V~ | 24W   | 1800 Lm     | 120 Grados | Alum. + PMMA | Ø300*280*20mm | SMD 5730 | IP 44 |
| DLM-PSQ24WBB | 6500k       | 85-265 V~ | 24W   | 1800 Lm     | 120 Grados | Alum. + PMMA | Ø300*280*20mm | SMD 5730 | IP 44 |



## DOWNLIGHTS SOBREPONER

**2 AÑOS DE GARANTIA**

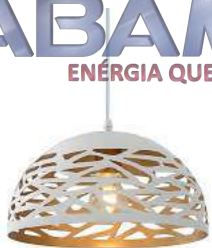


| CLAVE       | TEMPERATURA | VOLTAJE   | WATTS | LUMINOSIDAD | ANGULO     | MATERIAL     | DIMENSIONES | TIPO SMD | IP    |
|-------------|-------------|-----------|-------|-------------|------------|--------------|-------------|----------|-------|
| DLM-DLSR12W | 6500k       | 85-265 V~ | 12W   | 900 Lm      | 120 Grados | Alum. + PMMA | Ø170*33mm   | SMD 5730 | IP 44 |
| DLM-DLSR18W | 6500k       | 85-265 V~ | 18W   | 1350 Lm     | 120 Grados | Alum. + PMMA | Ø222*33mm   | SMD 5730 | IP 44 |
| DLM-DLSR24W | 6500k       | 85-265 V~ | 24W   | 1800 Lm     | 120 Grados | Alum. + PMMA | Ø300*33mm   | SMD 5730 | IP 44 |
| DLM-DLSC12W | 6500k       | 85-265 V~ | 12W   | 900 Lm      | 120 Grados | Alum. + PMMA | Ø170*33mm   | SMD 5730 | IP 44 |
| DLM-DLSC18W | 6500k       | 85-265 V~ | 18W   | 1350 Lm     | 120 Grados | Alum. + PMMA | Ø222*33mm   | SMD 5730 | IP 44 |
| DLM-DLSC24W | 6500k       | 85-265 V~ | 24W   | 1800 Lm     | 120 Grados | Alum. + PMMA | Ø300*33mm   | SMD 5730 | IP 44 |

**TECNOLED**  
Ilumina ahorrando<sub>®</sub>

**LÁMPARAS  
DECORATIVAS**





MODELO: LC602M  
MEDIDAS: D400\*H215



MODELO: LC602S  
MEDIDAS: D300\*H155



MODELO: LC513AW  
MEDIDAS: D250\*H380



MODELO: LC623M  
MEDIDAS: D220\*H300



MODELO: LC513AB  
MEDIDAS: D250\*H380



MODELO: LC513AG  
MEDIDAS: D250\*H380



MODELO: LC513C  
MEDIDAS: D350\*H295



MODELO: LC616B  
MEDIDAS: D285\*H170



MODELO: LC513B  
MEDIDAS: D350\*H340



MODELO: LC504W  
MEDIDAS: D260\*H200



MODELO: LC504S D260\*H200  
LC504M D360\*H220



MODELO: LC616A  
MEDIDAS: D220\*H280



MODELO: LC505MR  
MEDIDA: D285\*H170



MODELO: LC517SB/LC517SM  
MEDIDAS: D150\*H180



MODELO: LC517XB / LC517XM  
MEDIDAS: D280\*H165



MODELO: LC505MB  
MEDIDA: D285\*H170



MODELO: LC502MM  
MEDIDAS: D305\*H280



MODELO: LC502MB  
MEDIDAS: D305\*H280



MODELO: LC523W  
MEDIDAS: D350\*H260



MODELO: LC523B  
MEDIDAS: D350\*H260



MODELO: LC582W  
MEDIDAS: D330\*H250



MODELO: LC582B  
MEDIDAS: D330\*H250



MODELO: LC583W  
MEDIDAS: D450\*H170



MODELO: LC583B  
MEDIDAS: D450\*H170



MODELO: LC531W D260\*H360  
LC531M D360\*H420



MODELO: LC531B D260\*H360  
LC531D D360\*H420



MODELO: LC531R  
MEDIDAS: D260\*H360



MODELO: LC507  
MEDIDAS: D300\*H250



MODELO: LC531C  
MEDIDAS: D260\*H360



MODELO: LC737A  
MEDIDAS: D150\*H320



MODELO: LC738A  
MEDIDAS: D120\*H220



MODELO: LC783A  
MEDIDAS: D250\*H250



MODELO: LC771B  
MEDIDAS: D200\*H320



MODELO: LC782A  
MEDIDAS: D300\*H150



MODELO: LC782D  
MEDIDAS: D300\*H150



MODELO: LC783C  
MEDIDAS: D250\*H250

# FICHAS TÉCNICAS





|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | RXA-200W      | <b>Garantía:</b>    | 5 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 330*450*120mm      |
| <b>Rango de Voltaje:</b> | 100 - 277 V~  | <b>LED:</b>         | SMD 3030           |

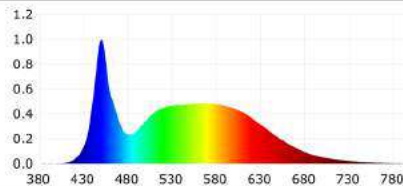
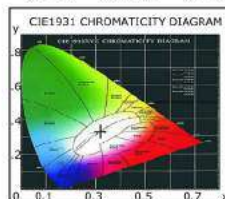
### Product Information

Product Type: RXA-200W

Product Spec: 200W

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3207$   $y=0.3363$   $u'(u')=0.2006$   $v=0.3156$   $v'=0.4734$   
 CCT:  $T_c=6052K$  ( $duv=-0.00298$ ) Color Ratio:  $R=0.141$   $G=0.806$   $B=0.053$   
 Peak Wavelength: 450.1nm Half Bandwidth: 23.1nm  
 Dominant Wavelength: 494.8nm Color Purity: 0.041  
 CRI: Ra= 85.8  
 R1 =86 R2 =86 R3 =84 R4 =92 R5 =86 R6 =79 R7 =92 R8 =81  
 R9 =31 R10=64 R11=92 R12=53 R13=85 R14=91 R15=84  
 Color Quality Scale:  $Q_a=83.1$ ,  $Q_f=82.9$ ,  $Q_p=83.6$ ,  $Q_g=93.0$   
 Q1 =87 Q2 =98 Q3 =79 Q4 =72 Q5 =79 Q6 =83 Q7 =89 Q8 =93  
 Q9 =95 Q10=87 Q11=83 Q12=82 Q13=83 Q14=77 Q15=81



### Photometric Parameters

Luminous Flux: 22058.42 lm Efficiency: 110.68 lm/W Radiant Power: 70.780 W

### Electric Parameters

Voltage: 219.40V Current: 0.9390A Power Factor: 0.9670 Frequency: 60.00Hz Power: 199.30W

### Test Information

Scan Range: 380~800:1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 51551 (4205)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 32.57 ms



|                          |                  |                     |                    |
|--------------------------|------------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED         | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-10WSMD-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K            | <b>Medidas:</b>     | 113*85*77 mm       |
| <b>Rango de Voltaje:</b> | 85 - 265 V~      | <b>LED:</b>         | SMD 5730           |

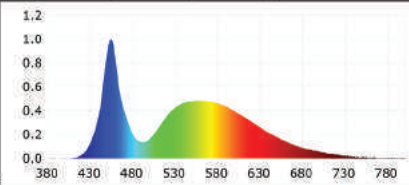
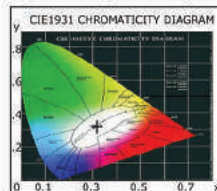
### Product Information

Product Category: REFLECTOR SMD  
 Product Number: ML-REF-10WSMD-BB

Product Type: TECNOLED

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3178$   $y=0.3256$   $u'(u')=0.2027$   $v=0.3115$   $v'=0.4672$   
 CCT:  $T_c=6254K$  ( $duv=-0.00114$ ) Color Ratio:  $R=0.133$   $G=0.820$   $B=0.048$   
 Peak Wavelength: 453.9nm Half Bandwidth: 23.4nm  
 Dominant Wavelength: 494.5nm Color Purity: 0.059  
 CRI: Ra= 78.8  
 R1 =79 R2 =81 R3 =75 R4 =83 R5 =77 R6 =69 R7 =90 R8 =76  
 R9 =13 R10=47 R11=77 R12=37 R13=79 R14=85 R15=80  
 Color Quality Scale:  $Q_a=72.6$ ,  $Q_f=71.8$ ,  $Q_p=75.0$ ,  $Q_g=89.8$   
 Q1 =85 Q2 =97 Q3 =67 Q4 =52 Q5 =62 Q6 =68 Q7 =80 Q8 =89  
 Q9 =89 Q10=77 Q11=68 Q12=70 Q13=73 Q14=70 Q15=77



### Photometric Parameters

Luminous Flux: 1059.41 lm Efficiency: 92.69 lm/W Radiant Power: 3.384 W

### Electric Parameters

Voltage: 219.80V Current: 0.0870A Power Factor: 0.5940 Frequency: 60.00Hz Power: 11.43W

### Test Information

Scan Range: 380~800:1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 46336 (3315)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 450.76 ms



## TECNOLED

Ilumina ahorrando

|                          |                  |                     |                    |
|--------------------------|------------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED         | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-20WSMD-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K            | <b>Medidas:</b>     | 180*140*100 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~      | <b>LED:</b>         | SMD 5730           |

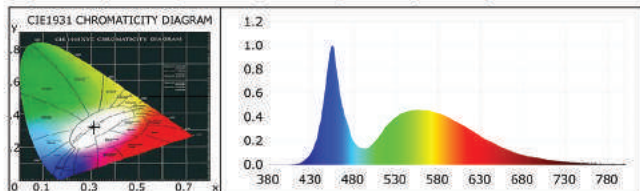
### Product Information

Product Category: REFLECTOR SMD  
Product Number: ML-REF-20WSMD-BB

Product Type: TECNOLED

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3139$   $y=0.3229$   $u(u')=0.2010$   $v=0.3101$   $v'=0.4652$   
 CCT:  $T_c=6484K$  ( $duv=-0.00059$ )  
 Peak Wavelength: 454.3nm  
 Dominant Wavelength: 484.5nm  
 CRI: Ra = 78.9  
 R1 = 79 R2 = 81 R3 = 76 R4 = 82 R5 = 77 R6 = 69 R7 = 90 R8 = 76  
 R9 = 13 R10 = 48 R11 = 77 R12 = 36 R13 = 79 R14 = 86 R15 = 80  
 Color Quality Scale: Qa = 72.5, Qf = 71.8, Qp = 74.8, Qg = 89.3  
 Q1 = 85 Q2 = 98 Q3 = 68 Q4 = 52 Q5 = 61 Q6 = 67 Q7 = 80 Q8 = 88  
 Q9 = 90 Q10 = 78 Q11 = 69 Q12 = 70 Q13 = 74 Q14 = 70 Q15 = 77



### Photometric Parameters

Luminous Flux: 2013.45 lm Efficiency: 91.85 lm/W Radiant Power: 5.476 W

### Electric Parameters

Voltage: 219.90V Current: 0.1580A Power: 21.92W  
 Power Factor: 0.6300 Frequency: 60.00Hz

### Test Information

Scan Range: 380~800.1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 45438 (3062)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 218.80 ms



## TECNOLED

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|                          |                  |                     |                    |
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| <b>Marca:</b>            | TECNOLED         | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-30WSMD-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K            | <b>Medidas:</b>     | 224*185*110 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~      | <b>LED:</b>         | SMD 5730           |

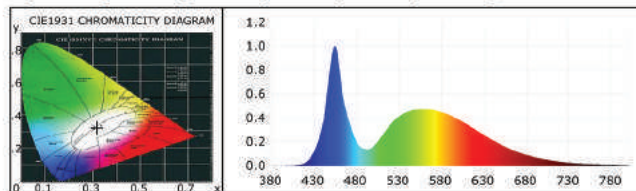
### Product Information

Product Category: REFLECTOR SMD  
Product Number: ML-REF-30WSMD-BB

Product Type: TECNOLED

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3177$   $y=0.3249$   $u(u')=0.2029$   $v=0.3112$   $v'=0.4669$   
 CCT:  $T_c=6264K$  ( $duv=-0.00143$ )  
 Peak Wavelength: 454.4nm  
 Dominant Wavelength: 484.5nm  
 CRI: Ra = 79.5  
 R1 = 80 R2 = 82 R3 = 76 R4 = 83 R5 = 77 R6 = 70 R7 = 91 R8 = 77  
 R9 = 17 R10 = 49 R11 = 78 R12 = 37 R13 = 80 R14 = 86 R15 = 81  
 Color Quality Scale: Qa = 72.9, Qf = 72.2, Qp = 75.2, Qg = 89.9  
 Q1 = 85 Q2 = 97 Q3 = 67 Q4 = 52 Q5 = 62 Q6 = 68 Q7 = 81 Q8 = 89  
 Q9 = 90 Q10 = 78 Q11 = 69 Q12 = 70 Q13 = 74 Q14 = 71 Q15 = 77



### Photometric Parameters

Luminous Flux: 3058.75 lm Efficiency: 93.83 lm/W Radiant Power: 9.845 W

### Electric Parameters

Voltage: 220.20V Current: 0.2270A Power: 32.60W  
 Power Factor: 0.6530 Frequency: 60.00Hz

### Test Information

Scan Range: 380~800.1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 51645 (3043)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 170.09 ms



**TECNOLED**  
Ilumina ahorrando

|                          |                  |                     |                    |
|--------------------------|------------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED         | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-50WSMD-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K            | <b>Medidas:</b>     | 283*233*117 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~      | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Category: REFLECTOR SMD  
Product Number: ML-REF-50WSMD-BB

Product Type: TECNOLED

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3154$   $y=0.3256$

CCT:  $T_c=6382K$  ( $duv=0.00007$ )

Peak Wavelength: 454.7nm

Dominant Wavelength: 486.0nm

CRI: Ra = 78.8

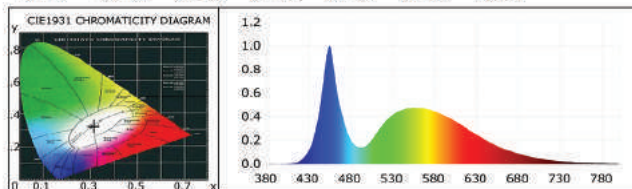
R1 = 79 R2 = 81 R3 = 77 R4 = 82 R5 = 76 R6 = 70 R7 = 91 R8 = 76

R9 = 12 R10 = 49 R11 = 76 R12 = 36 R13 = 79 R14 = 86 R15 = 80

Color Quality Scale:  $Q_a=72.7$ ,  $Q_f=72.1$ ,  $Q_p=74.6$ ,  $Q_g=89.0$

Q1 = 84 Q2 = 98 Q3 = 68 Q4 = 53 Q5 = 62 Q6 = 67 Q7 = 79 Q8 = 88

Q9 = 90 Q10 = 76 Q11 = 69 Q12 = 71 Q13 = 74 Q14 = 70 Q15 = 76



#### Photometric Parameters

Luminous Flux: 4681.01 lm

Efficiency: 96.14 lm/W

Radiant Power: 14.968 W

#### Electric Parameters

Voltage: 220.50V  
Power Factor: 0.9630

Current: 0.2290A  
Frequency: 59.99Hz

Power: 48.69W

#### Test Information

Scan Range: 380~800.1nm  
Stabilization Time: 0 ms  
Max of Signal: 52654 (2847)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 112.99 ms



**TECNOLED**  
Ilumina ahorrando

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|--------------------------|-------------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-100WSMD-BB | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K             | <b>Medidas:</b>     | 384*284*170 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~       | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Category: REFLECTOR SMD  
Product Number: ML-REF-100WSMD-BB

Product Type: TECNOLED PLUS

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3174$   $y=0.3244$

CCT:  $T_c=6280K$  ( $duv=-0.00159$ )

Peak Wavelength: 453.5nm

Dominant Wavelength: 484.1nm

CRI: Ra = 78.7

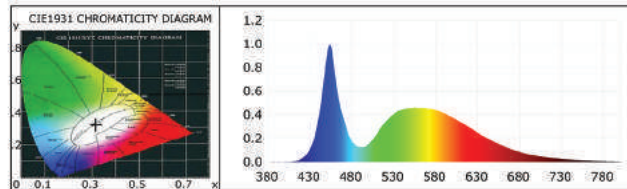
R1 = 79 R2 = 80 R3 = 75 R4 = 83 R5 = 77 R6 = 69 R7 = 90 R8 = 77

R9 = 15 R10 = 47 R11 = 78 R12 = 36 R13 = 79 R14 = 85 R15 = 81

Color Quality Scale:  $Q_a=72.4$ ,  $Q_f=71.5$ ,  $Q_p=75.1$ ,  $Q_g=90.1$

Q1 = 86 Q2 = 97 Q3 = 66 Q4 = 52 Q5 = 62 Q6 = 69 Q7 = 81 Q8 = 89

Q9 = 89 Q10 = 76 Q11 = 68 Q12 = 69 Q13 = 73 Q14 = 70 Q15 = 77



#### Photometric Parameters

Luminous Flux: 8922.54 lm

Efficiency: 88.87 lm/W

Radiant Power: 28.621 W

#### Electric Parameters

Voltage: 219.50V  
Power Factor: 0.9630

Current: 0.4740A  
Frequency: 59.99Hz

Power: 100.40W

#### Test Information

Scan Range: 380~800.1nm  
Stabilization Time: 0 ms  
Max of Signal: 48568 (2618)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 53.20 ms



**TECNOLED**  
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|--------------------------|----------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS  | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-150WSMD | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K          | <b>Medidas:</b>     | 425*325*165mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~    | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-REF-150W-SMD

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3141$   $y=0.3232$

CCT:  $T_c=6474K$  ( $duv=-0.00053$ )

Peak Wavelength: 455.2nm

Dominant Wavelength: 484.6nm

CRI: Ra = 79.6

R1 = 80 R2 = 82 R3 = 77 R4 = 83 R5 = 77 R6 = 71 R7 = 91 R8 = 77

R9 = 15 R10 = 50 R11 = 77 R12 = 38 R13 = 80 R14 = 87 R15 = 81

Color Quality Scale:  $Q_a=73.1$ ,  $Q_f=72.5$ ,  $Q_p=75.0$ ,  $Q_g=89.3$

Q1 = 85 Q2 = 98 Q3 = 69 Q4 = 53 Q5 = 62 Q6 = 68 Q7 = 80 Q8 = 88

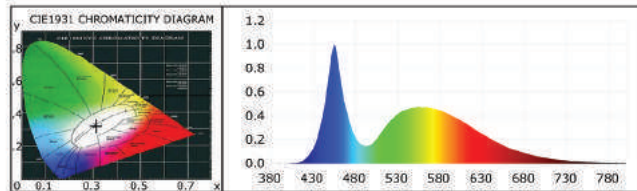
Q9 = 90 Q10 = 79 Q11 = 70 Q12 = 71 Q13 = 74 Q14 = 71 Q15 = 77

$u'(u')=0.2010$   $v'=0.3103$   $v'=0.4654$

Color Ratio:  $R=0.131$   $G=0.818$   $B=0.051$

Half Bandwidth: 23.5nm

Color Purity: 0.073



#### Photometric Parameters

Luminous Flux: 13849.11 lm

Efficiency: 93.26 lm/W

Radiant Power: 32.882 W

#### Electric Parameters

Voltage: 126.30V

Power Factor: 0.9880

Current: 1.1757A

Frequency: 59.99Hz

Power: 148.50W

#### Test Information

Scan Range: 380-800:1nm

Stabilization Time: 0 ms

Max of Signal: 44079 (3858)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 46.87 ms



**TECNOLED**  
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| <b>Marca:</b>            | TECNOLED PLUS     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-200WSMD-BB | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K             | <b>Medidas:</b>     | 425*325*170 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~       | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Category: REFLECTOR SMD

Product Number: ML-REF-200WSMD-BB

Product Type: TECNOLED PLUS

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3174$   $y=0.3248$

CCT:  $T_c=6278K$  ( $duv=-0.00138$ )

Peak Wavelength: 454.3nm

Dominant Wavelength: 484.5nm

CRI: Ra = 79.3

R1 = 80 R2 = 81 R3 = 76 R4 = 83 R5 = 77 R6 = 70 R7 = 90 R8 = 77

R9 = 16 R10 = 49 R11 = 78 R12 = 37 R13 = 80 R14 = 86 R15 = 81

Color Quality Scale:  $Q_a=72.8$ ,  $Q_f=72.1$ ,  $Q_p=75.1$ ,  $Q_g=89.9$

Q1 = 85 Q2 = 97 Q3 = 67 Q4 = 52 Q5 = 62 Q6 = 68 Q7 = 81 Q8 = 89

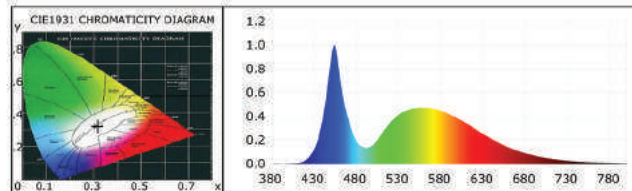
Q9 = 89 Q10 = 78 Q11 = 69 Q12 = 70 Q13 = 74 Q14 = 71 Q15 = 77

$u'(u')=0.2027$   $v'=0.3112$   $v'=0.4667$

Color Ratio:  $R=0.133$   $G=0.818$   $B=0.049$

Half Bandwidth: 22.5nm

Color Purity: 0.051



#### Photometric Parameters

Luminous Flux: 16686.36 lm

Efficiency: 85.09 lm/W

Radiant Power: 53.708 W

#### Electric Parameters

Voltage: 218.90V

Power Factor: 0.9600

Current: 0.9320A

Frequency: 60.00Hz

Power: 196.10W

#### Test Information

Scan Range: 380-800:1nm

Stabilization Time: 0 ms

Max of Signal: 48358 (3257)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 29.02 ms



**TECNOLED**  
Ilumina ahorrando

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|--------------------------|-------------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-250WSMD-BB | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K             | <b>Medidas:</b>     | 525*325*183 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~       | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Category: REFLECTOR SMD  
Product Number: ML-REF-250WSMD-BB

Product Type: TECNOLED PLUS

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3194$   $y=0.3304$

CCT:  $T_c=6144K$  ( $duv=-0.00058$ )

Peak Wavelength: 455.2nm

Dominant Wavelength: 498.9nm

CRI: Ra = 79.1

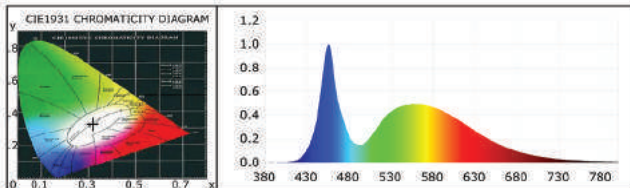
R1 = 79 R2 = 82 R3 = 78 R4 = 82 R5 = 77 R6 = 70 R7 = 91 R8 = 75

R9 = 12 R10 = 50 R11 = 76 R12 = 37 R13 = 79 R14 = 87 R15 = 79

Color Quality Scale:  $Q_a=73.2$ ,  $Q_f=72.8$ ,  $Q_p=74.7$ ,  $Q_g=89.0$

Q1 = 84 Q2 = 98 Q3 = 69 Q4 = 54 Q5 = 62 Q6 = 68 Q7 = 79 Q8 = 88

Q9 = 91 Q10 = 79 Q11 = 71 Q12 = 72 Q13 = 74 Q14 = 70 Q15 = 76



#### Photometric Parameters

Luminous Flux: 20471.00 lm

Efficiency: 83.35 lm/W

Radiant Power: 65.215 W

#### Electric Parameters

Voltage: 219.30V

Current: 1.1670A

Power: 245.60W

Power Factor: 0.9610

Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800.1nm

Stabilization Time: 0 ms

Max of Signal: 54415 (3232)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 27.98 ms



**TECNOLED**  
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|--------------------------|-------------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-REF-300WSMD-BB | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K             | <b>Medidas:</b>     | 597*325*190 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~       | <b>LED:</b>         | SMD 5730           |
| <b>Vida Util:</b>        | 35000 h           |                     |                    |

#### Product Information

Product Category: REFLECTOR SMD  
Product Number: ML-REF-300WSMD-BB

Product Type: TECNOLED PLUS

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3154$   $y=0.3236$

CCT:  $T_c=6398K$  ( $duv=-0.00094$ )

Peak Wavelength: 453.8nm

Dominant Wavelength: 484.5nm

CRI: Ra = 78.7

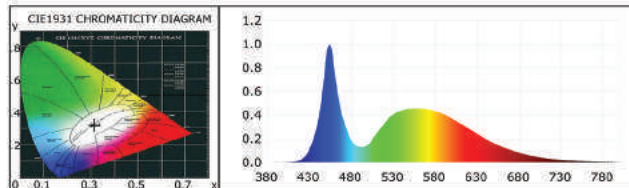
R1 = 79 R2 = 81 R3 = 75 R4 = 83 R5 = 77 R6 = 69 R7 = 90 R8 = 76

R9 = 13 R10 = 47 R11 = 77 R12 = 36 R13 = 79 R14 = 86 R15 = 80

Color Quality Scale:  $Q_a=72.4$ ,  $Q_f=71.6$ ,  $Q_p=74.9$ ,  $Q_g=89.6$

Q1 = 85 Q2 = 97 Q3 = 67 Q4 = 52 Q5 = 62 Q6 = 68 Q7 = 80 Q8 = 88

Q9 = 89 Q10 = 77 Q11 = 68 Q12 = 70 Q13 = 73 Q14 = 70 Q15 = 76



#### Photometric Parameters

Luminous Flux: 23763.84 lm

Efficiency: 78.43 lm/W

Radiant Power: 76.059 W

#### Electric Parameters

Voltage: 218.50V

Current: 1.4430A

Power: 303.00W

Power Factor: 0.9600

Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800.1nm

Stabilization Time: 0 ms

Max of Signal: 49015 (2513)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 20.00 ms

**TECNOLED**  
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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | RAZ-100W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 334*258*55 mm      |
| <b>Rango de Voltaje:</b> | 85 ~ 265 V~ | <b>LED:</b>         | SMD 5730           |

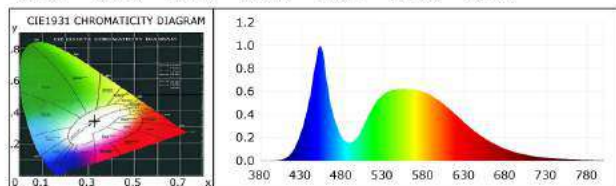
#### Product Information

Product Type: RAZ-100W  
Product Number: 9

Product Spec: 100W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3273$   $y=0.3456$   $u(u')=0.2017$   $v=0.3194$   $v'=0.4791$   
 CCT:  $T_c=5724K$  ( $duv=0.00458$ )  
 Peak Wavelength: 453.1nm  
 Dominant Wavelength: 535.2nm  
 CRI: Ra: Ra= 75.5  
 R1 =75 R2 =76 R3 =74 R4 =81 R5 =74 R6 =66 R7 =87 R8 =70  
 R9 =0 R10=40 R11=77 R12=37 R13=74 R14=85 R15=72  
 Color Quality Scale: Qa= 73.3, Qf= 73.0, Qg= 74.5, Qh= 88.5  
 Q1 =83 Q2 =97 Q3 =68 Q4 =57 Q5 =66 Q6 =71 Q7 =79 Q8 =87  
 Q9 =91 Q10=77 Q11=70 Q12=72 Q13=74 Q14=65 Q15=72



#### Photometric Parameters

Luminous Flux: 9089.07 lm Efficiency: 82.78 lm/W Radiant Power: 27.724 W

#### Electric Parameters

Voltage: 126.50V Current: 0.8790A Power: 109.80W  
 Power Factor: 0.9870 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800:1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 46397 (4438)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 84.51 ms

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 ventas@tecnoleddmexico.com

**TECNOLED**  
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|                          |             |                     |                    |
|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | RWY-100W    | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 255*285*65 mm      |
| <b>Rango de Voltaje:</b> | 85 ~ 265 V~ | <b>LED:</b>         | SMD 5730           |

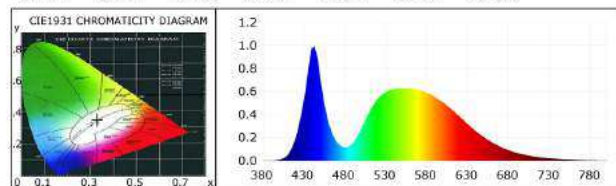
#### Product Information

Product Type: RWY-100W  
Product Number: 13

Product Spec: 100W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3292$   $y=0.3525$   $u(u')=0.2004$   $v=0.3218$   $v'=0.4827$   
 CCT:  $T_c=5640K$  ( $duv=0.00716$ )  
 Peak Wavelength: 442.3nm  
 Dominant Wavelength: 542.2nm  
 CRI: Ra: Ra= 70.8  
 R1 =71 R2 =70 R3 =69 R4 =77 R5 =73 R6 =62 R7 =78 R8 =66  
 R9 =0 R10=28 R11=79 R12=41 R13=68 R14=82 R15=66  
 Color Quality Scale: Qa= 73.8, Qf= 73.1, Qg= 76.3, Qh= 89.7  
 Q1 =80 Q2 =94 Q3 =69 Q4 =65 Q5 =73 Q6 =75 Q7 =80 Q8 =88  
 Q9 =89 Q10=74 Q11=69 Q12=71 Q13=73 Q14=61 Q15=69



#### Photometric Parameters

Luminous Flux: 9719.64 lm Efficiency: 86.63 lm/W Radiant Power: 29.356 W

#### Electric Parameters

Voltage: 126.50V Current: 0.8960A Power: 112.20W  
 Power Factor: 0.9900 Frequency: 59.99Hz

#### Test Information

Scan Range: 380~800:1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 47858 (4463)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 84.51 ms

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 ventas@tecnoleddmexico.com



**TECNOLED**  
Ilumina ahorrando

|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED      | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-RSL-30WSMD | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 226*186*52 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Category: REFLECTOR SLIM  
Product Number: ML-RSL-30WSMD

Product Type: TECNOLED

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3241$   $y=0.3479$

CCT:  $T_c=5860K$  ( $duv=0.00718$ )

Peak Wavelength: 451.1nm

Dominant Wavelength: 514.5nm

CRI: Ra= 72.3

R1 =71 R2 =73 R3 =71 R4 =78

R9 =0 R10=32 R11=74 R12=34

Color Quality Scale:  $Q_a=72.0$ ,  $Q_f=71.6$ ,  $Q_p=73.3$ ,  $Q_g=87.4$

Q1 =82 Q2 =96 Q3 =67 Q4 =57

Q9 =90 Q10=75 Q11=68 Q12=70

$u'(u')=0.1987$   $v'=0.3198$   $v'=0.4797$

Color Ratio:  $R=0.124$   $G=0.840$   $B=0.036$

Half Bandwidth: 29.2nm

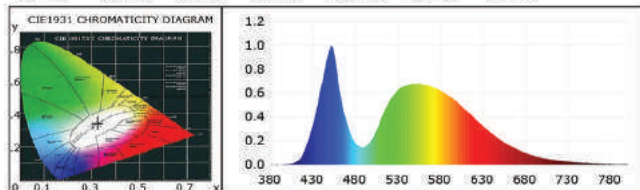
Color Purity: 0.031

R5 =72 R6 =63 R7 =84 R8 =67

R13=70 R14=83 R15=68

Q5 =66 Q6 =70 Q7 =77 Q8 =86

Q13=73 Q14=51 Q15=70



#### Photometric Parameters

Luminous Flux: 3178.34 lm

Efficiency: 96.90 lm/W

Radiant Power: 9.562 W

#### Electric Parameters

Voltage: 126.90V

Power Factor: 0.8720

Current: 0.2960A

Frequency: 59.99Hz

Power: 32.80W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44185 (4340)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 209.00 ms



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|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED      | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-RSL-50WSMD | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 290*238*62 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Category: REFLECTOR SLIM  
Product Number: ML-RSL-50WSMD

Product Type: TECNOLED

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3221$   $y=0.3454$

CCT:  $T_c=5956K$  ( $duv=0.00690$ )

Peak Wavelength: 451.0nm

Dominant Wavelength: 506.7nm

CRI: Ra= 72.2

R1 =71 R2 =72 R3 =71 R4 =79

R9 =0 R10=31 R11=75 R12=34

Color Quality Scale:  $Q_a=71.9$ ,  $Q_f=71.5$ ,  $Q_p=73.5$ ,  $Q_g=87.6$

Q1 =82 Q2 =96 Q3 =67 Q4 =57

Q9 =90 Q10=74 Q11=68 Q12=70

$u'(u')=0.1982$   $v'=0.3188$   $v'=0.4782$

Color Ratio:  $R=0.123$   $G=0.841$   $B=0.036$

Half Bandwidth: 28.6nm

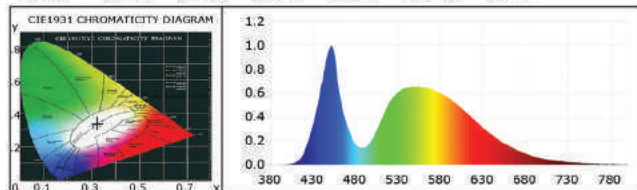
Color Purity: 0.034

R5 =72 R6 =62 R7 =83 R8 =68

R13=70 R14=83 R15=68

Q5 =66 Q6 =71 Q7 =78 Q8 =87

Q13=72 Q14=62 Q15=70



#### Photometric Parameters

Luminous Flux: 5321.52 lm

Efficiency: 93.95 lm/W

Radiant Power: 16.043 W

#### Electric Parameters

Voltage: 126.80V

Power Factor: 0.9150

Current: 0.4880A

Frequency: 60.00Hz

Power: 56.64W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44337 (4148)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 121.24 ms



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|--------------------------|-----------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED        | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-RSL-100W-SMD | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K           | <b>Medidas:</b>     | 337*299*75 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~     | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Type: TECNOLED

Product Number: ML-RSL-100W-SMD

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3243$   $y=0.3412$

CCT:  $T_c=5668K$  ( $duv=0.00381$ )

Peak Wavelength: 453.7nm

Dominant Wavelength: 503.6nm

CRI: Ra = 76.7

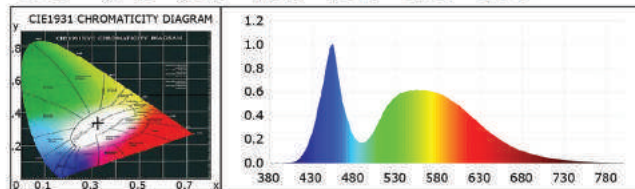
R1 = 76 R2 = 78 R3 = 75 R4 = 82 R5 = 75 R6 = 68 R7 = 88 R8 = 71

R9 = 0 R10 = 43 R11 = 78 R12 = 38 R13 = 75 R14 = 86 R15 = 74

Color Quality Scale: Qa = 73.9, Qf = 73.6, Qp = 75.0, Qg = 88.7

Q1 = 83 Q2 = 97 Q3 = 69 Q4 = 58 Q5 = 67 Q6 = 71 Q7 = 80 Q8 = 88

Q9 = 91 Q10 = 78 Q11 = 71 Q12 = 72 Q13 = 75 Q14 = 66 Q15 = 73



#### Photometric Parameters

Luminous Flux: 9573.92 lm

Efficiency: 86.49 lm/W

Radiant Power: 29.503 W

#### Electric Parameters

Voltage: 126.50V

Power Factor: 0.9030

Current: 0.9700A

Frequency: 59.98Hz

Power: 110.70W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 46679 (3614)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 68.77 ms



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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | RFI-50W-BB  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 252*190*43 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Type: RFI-B-50W-BB

Product Number: 1

Product Spec: 50W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3299$   $y=0.3527$

CCT:  $T_c=5608K$  ( $duv=0.00694$ )

Peak Wavelength: 440.0nm

Dominant Wavelength: 544.8nm

CRI: Ra = 69.8

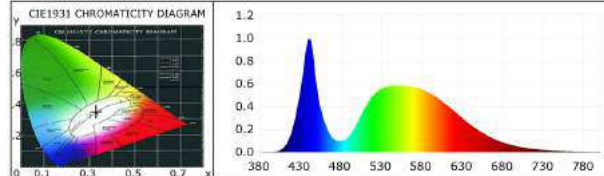
R1 = 71 R2 = 69 R3 = 67 R4 = 76 R5 = 73 R6 = 61 R7 = 76 R8 = 65

R9 = 0 R10 = 26 R11 = 79 R12 = 41 R13 = 67 R14 = 81 R15 = 65

Color Quality Scale: Qa = 73.5, Qf = 72.6, Qp = 76.5, Qg = 90.1

Q1 = 80 Q2 = 93 Q3 = 68 Q4 = 66 Q5 = 73 Q6 = 75 Q7 = 79 Q8 = 88

Q9 = 89 Q10 = 73 Q11 = 69 Q12 = 70 Q13 = 73 Q14 = 61 Q15 = 69



#### Photometric Parameters

Luminous Flux: 5096.88 lm

Efficiency: 99.37 lm/W

Radiant Power: 15.405 W

#### Electric Parameters

Voltage: 127.00V

Power Factor: 0.9940

Current: 0.4070A

Frequency: 60.00Hz

Power: 51.29W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 41799 (4841)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 131.39 ms



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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM-ANCE           |
| <b>Modelo:</b>           | RFI-100W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 334*258*55 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         | SMD 5730           |

#### Product Information

Product Type: RFI-100W  
Product Number: 16

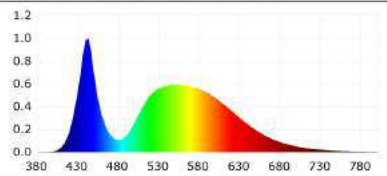
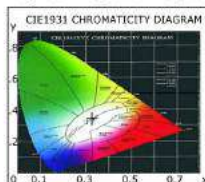
Product Spec: 100W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3262$   $y=0.3464$   
CCT:  $Tc=5774K$  ( $duv=0.00556$ )  
Peak Wavelength: 442.1nm  
Dominant Wavelength: 518.5nm  
CRI: Ra = 71.0

$u(u')=0.2006$   $v=0.3195$   $v'=0.4793$   
Color Ratio: R=0.127 G=0.841 B=0.032  
Half Bandwidth: 25.0nm  
Color Purity: 0.026

R1 = 72 R2 = 70 R3 = 68 R4 = 77 R5 = 74 R6 = 62 R7 = 77 R8 = 67  
R9 = 0 R10 = 28 R11 = 80 R12 = 43 R13 = 69 R14 = 81 R15 = 67  
Color Quality Scale: Qa = 73.8, Qf = 72.8, Qg = 77.1, Qh = 90.6  
Q1 = 81 Q2 = 93 Q3 = 68 Q4 = 65 Q5 = 73 Q6 = 76 Q7 = 80 Q8 = 89  
Q9 = 89 Q10 = 73 Q11 = 68 Q12 = 70 Q13 = 73 Q14 = 62 Q15 = 70



#### Photometric Parameters

Luminous Flux: 9350.31 lm Efficiency: 91.76 lm/W Radiant Power: 28.659 W

#### Electric Parameters

Voltage: 126.60V Current: 0.8090A Power: 101.90W  
Power Factor: 0.9950 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 49030 (1472)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 84.51 ms

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**TECNOLED**  
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|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM-ANCE           |
| <b>Modelo:</b>           | KH-UF-150W    | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | ø330 H130 mm       |
| <b>Rango de Voltaje:</b> | 100-305 V~    | <b>LED:</b>         | SMD 3030           |

#### Product Information

Product Type: KH-UF-150W  
Product Number: 34

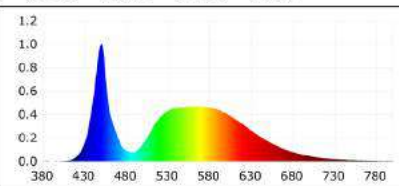
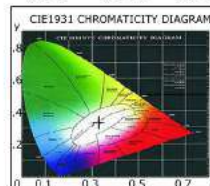
Product Spec: 150W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3292$   $y=0.3364$   
CCT:  $Tc=5650K$  ( $duv=-0.00091$ )  
Peak Wavelength: 449.6nm  
Dominant Wavelength: 501.8nm  
CRI: Ra = 74.6

$u(u')=0.2064$   $v=0.3165$   $v'=0.4747$   
Color Ratio: R=0.137 G=0.829 B=0.034  
Half Bandwidth: 18.9nm  
Color Purity: 0.013

R1 = 76 R2 = 75 R3 = 69 R4 = 82 R5 = 76 R6 = 64 R7 = 83 R8 = 72  
R9 = 0 R10 = 36 R11 = 80 R12 = 34 R13 = 74 R14 = 82 R15 = 75  
Color Quality Scale: Qa = 71.7, Qf = 70.4, Qg = 75.3, Qh = 91.5  
Q1 = 84 Q2 = 94 Q3 = 62 Q4 = 54 Q5 = 67 Q6 = 73 Q7 = 81 Q8 = 89  
Q9 = 87 Q10 = 72 Q11 = 66 Q12 = 68 Q13 = 72 Q14 = 66 Q15 = 74



#### Photometric Parameters

Luminous Flux: 18637.59 lm Efficiency: 125.51 lm/W Radiant Power: 57.195 W

#### Electric Parameters

Voltage: 219.60V Current: 0.6970A Power: 148.50W  
Power Factor: 0.9700 Frequency: 59.99Hz

#### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 45414 (3373)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 30.26 ms



|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-CAM-50WSMD | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | Ø450*370 mm        |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>LED:</b>         | SMD 5730           |

### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-CAM-50WSMD

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3146$   $y=0.3254$

CCT:  $T_c=6426K$  ( $duv=0.00037$ )

Peak Wavelength: 443.1nm

Dominant Wavelength: 486.1nm

CRI: Ra = 71.4

R1 = 76 R2 = 70 R3 = 63 R4 = 77 R5 = 77 R6 = 61 R7 = 76 R8 = 71

R9 = 0 R10 = 26 R11 = 81 R12 = 40 R13 = 71 R14 = 79 R15 = 73

Color Quality Scale:  $Q_a = 72.3$ ,  $Q_f = 70.1$ ,  $Q_g = 78.1$ ,  $Q_h = 92.6$

Q1 = 84 Q2 = 91 Q3 = 63 Q4 = 58 Q5 = 71 Q6 = 76 Q7 = 81 Q8 = 91

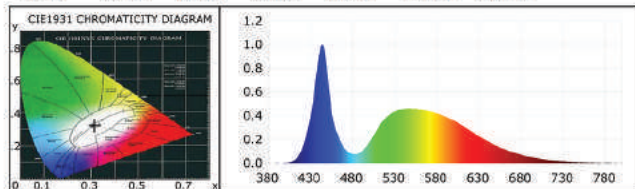
Q9 = 85 Q10 = 69 Q11 = 64 Q12 = 67 Q13 = 72 Q14 = 66 Q15 = 74

$u(u')=0.2005$   $v=0.3111$   $v'=0.4667$

Color Ratio:  $R=0.125$   $G=0.841$   $B=0.033$

Half Bandwidth: 21.3nm

Color Purity: 0.069



### Photometric Parameters

Luminous Flux: 4771.62 lm

Efficiency: 99.26 lm/W

Radiant Power: 15.109 W

### Electric Parameters

Voltage: 126.80V

Power Factor: 0.9920

Current: 0.3820A

Frequency: 60.00Hz

Power: 48.07W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 45998 (3874)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 100.88 ms



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| <b>Marca:</b>            | TECNOLED PLUS  | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-CAM-100WSMD | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K          | <b>Medidas:</b>     | Ø450*400 mm        |
| <b>Rango de Voltaje:</b> | 85 - 265 V~    | <b>LED:</b>         | SMD 5730           |

### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-CAM-100WSMD

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3124$   $y=0.3199$

CCT:  $T_c=6600K$  ( $duv=-0.00138$ )

Peak Wavelength: 442.8nm

Dominant Wavelength: 492.3nm

CRI: Ra = 71.2

R1 = 77 R2 = 70 R3 = 61 R4 = 77 R5 = 78 R6 = 61 R7 = 75 R8 = 72

R9 = 2 R10 = 25 R11 = 82 R12 = 41 R13 = 72 R14 = 78 R15 = 74

Color Quality Scale:  $Q_a = 72.0$ ,  $Q_f = 69.3$ ,  $Q_g = 78.8$ ,  $Q_h = 93.4$

Q1 = 84 Q2 = 90 Q3 = 63 Q4 = 58 Q5 = 72 Q6 = 77 Q7 = 81 Q8 = 91

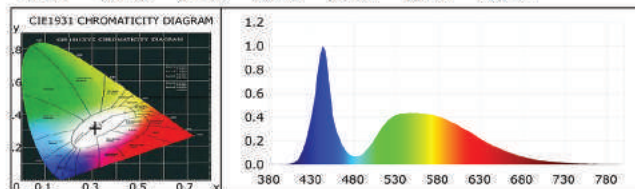
Q9 = 84 Q10 = 68 Q11 = 62 Q12 = 65 Q13 = 71 Q14 = 66 Q15 = 75

$u(u')=0.2011$   $v=0.3089$   $v'=0.4633$

Color Ratio:  $R=0.126$   $G=0.841$   $B=0.034$

Half Bandwidth: 21.7nm

Color Purity: 0.082



### Photometric Parameters

Luminous Flux: 9603.59 lm

Efficiency: 101.84 lm/W

Radiant Power: 30.950 W

### Electric Parameters

Voltage: 126.80V

Power Factor: 0.9920

Current: 0.7500A

Frequency: 60.00Hz

Power: 94.30W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44806 (3797)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 47.35 ms



|                          |                |                     |                    |
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| <b>Marca:</b>            | TECNOLED PLUS  | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-CAM-150WSMD | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K          | <b>Medidas:</b>     | Ø494*400 mm        |
| <b>Rango de Voltaje:</b> | 85 - 265 V~    | <b>LED:</b>         | SMD 5730           |

### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-CAM-150WSMD

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3146$   $y=0.3216$

CCT:  $T_c=6456K$  ( $duv=-0.00163$ )

Peak Wavelength: 447.6nm

Dominant Wavelength: 483.2nm

CRI: Ra=74.6

R1=77 R2=74

R9=2 R10=34

Color Quality Scale:  $Q_a=71.5$ ,  $Q_f=69.8$ ,  $Q_p=76.1$ ,  $Q_g=91.4$

Q1=85 Q2=93

Q9=86 Q10=71

Q11=64

$u'(u')=0.2020$   $v'=0.3097$   $v'=0.4646$

Color Ratio:  $R=0.128$   $G=0.833$   $B=0.039$

Half Bandwidth: 21.9nm

Color Purity: 0.073

R6=64 R7=82

R12=37 R13=74

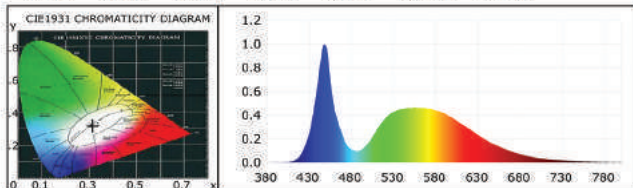
R15=76

Q5=66 Q6=74

Q7=82 Q8=90

Q12=66 Q13=71

Q14=66 Q15=75



### Photometric Parameters

Luminous Flux: 14425.42 lm

Efficiency: 95.03 lm/W

Radiant Power: 45.847 W

### Electric Parameters

Voltage: 219.30V

Power Factor: 0.9760

Current: 0.7090A

Frequency: 60.00Hz

Power: 151.80W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 46706 (3444)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 31.47 ms



|                          |                |                     |                    |
|--------------------------|----------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS  | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-CAM-200WSMD | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K          | <b>Medidas:</b>     | Ø494*500 mm        |
| <b>Rango de Voltaje:</b> | 85 - 265 V~    | <b>LED:</b>         | SMD 5730           |

### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-CAM-200WSMD

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3173$   $y=0.3272$

CCT:  $T_c=6268K$  ( $duv=-0.00006$ )

Peak Wavelength: 448.7nm

Dominant Wavelength: 486.7nm

CRI: Ra=74.4

R1=76 R2=74

R9=0 R10=35

Color Quality Scale:  $Q_a=71.5$ ,  $Q_f=70.1$ ,  $Q_p=75.3$ ,  $Q_g=90.5$

Q1=85 Q2=94

Q9=87 Q10=72

Q11=65

$u'(u')=0.2017$   $v'=0.3120$   $v'=0.4680$

Color Ratio:  $R=0.128$   $G=0.834$   $B=0.039$

Half Bandwidth: 20.7nm

Color Purity: 0.059

R6=64 R7=83

R12=35 R13=74

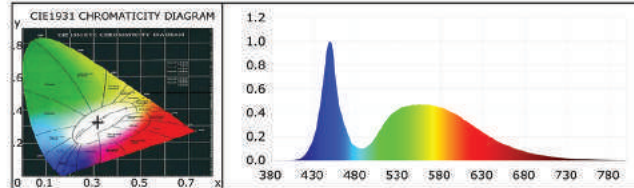
R15=75

Q5=66 Q6=73

Q7=81 Q8=89

Q12=65 Q13=71

Q14=65 Q15=74



### Photometric Parameters

Luminous Flux: 19151.94 lm

Efficiency: 95.95 lm/W

Radiant Power: 59.867 W

### Electric Parameters

Voltage: 219.70V

Power Factor: 0.9860

Current: 0.9220A

Frequency: 60.00Hz

Power: 199.60W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 49873 (3465)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 25.33 ms



|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | CAM-100W-UF   | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | Ø295*90 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>LED:</b>         | SMD 3535           |

### Product Information

Product Type: CAM-100W-UF  
Product Number: 0

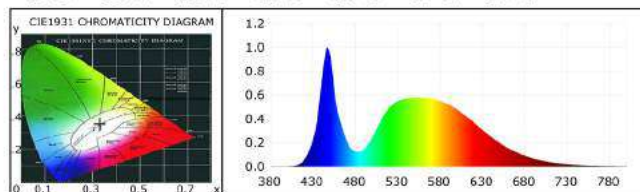
Product Spec: 100W

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3307$   $y=0.3543$   
CCT:  $T_c=5576K$  ( $duv=0.00741$ )  
Peak Wavelength: 446.7nm  
Dominant Wavelength: 547.9nm  
CRI: Ra= 73.7

$u(u')=0.2007$   $v=0.3226$   $v'=0.4839$   
Color Ratio:  $R=0.130$   $G=0.835$   $B=0.034$   
Half Bandwidth: 21.3nm  
Color Purity: 0.056

R1 =73 R2 =73 R3 =72 R4 =81 R5 =74 R6 =65 R7 =83 R8 =69  
R9 =0 R10 =35 R11 =79 R12 =37 R13 =71 R14 =84 R15 =69  
Color Quality Scale:  $Q_a=74.8$ ,  $Q_f=74.4$ ,  $Q_p=76.1$ ,  $Q_g=89.3$   
Q1 =82 Q2 =96 Q3 =69 Q4 =63 Q5 =72 Q6 =75 Q7 =80 Q8 =88  
Q9 =91 Q10 =77 Q11 =72 Q12 =73 Q13 =75 Q14 =64 Q15 =71



### Photometric Parameters

Luminous Flux: 9487.63 lm Efficiency: 91.40 lm/W Radiant Power: 28.332 W

### Electric Parameters

Voltage: 219.90V Current: 0.4890A Power: 103.80W  
Power Factor: 0.9670 Frequency: 60.00Hz

### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 51614 (4805)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 84.51 ms



|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | CAM-150W-UF   | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | Ø345*95 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>LED:</b>         | SMD 3535           |

### Product Information

Product Type: CAM-150W-UF

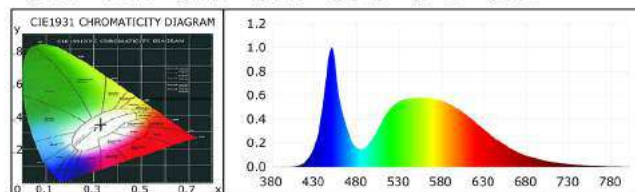
Product Spec: 150W

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3290$   $y=0.3532$   
CCT:  $T_c=5644K$  ( $duv=0.00761$ )  
Peak Wavelength: 450.3nm  
Dominant Wavelength: 542.3nm  
CRI: Ra= 75.7

$u(u')=0.2000$   $v=0.3221$   $v'=0.4831$   
Color Ratio:  $R=0.131$   $G=0.831$   $B=0.038$   
Half Bandwidth: 21.9nm  
Color Purity: 0.049

R1 =74 R2 =76 R3 =75 R4 =82 R5 =75 R6 =67 R7 =86 R8 =70  
R9 =0 R10 =41 R11 =80 R12 =37 R13 =73 R14 =86 R15 =71  
Color Quality Scale:  $Q_a=75.5$ ,  $Q_f=75.4$ ,  $Q_p=76.1$ ,  $Q_g=88.8$   
Q1 =83 Q2 =97 Q3 =70 Q4 =62 Q5 =71 Q6 =74 Q7 =81 Q8 =88  
Q9 =92 Q10 =79 Q11 =74 Q12 =75 Q13 =76 Q14 =65 Q15 =72



### Photometric Parameters

Luminous Flux: 13886.45 lm Efficiency: 90.41 lm/W Radiant Power: 41.681 W

### Electric Parameters

Voltage: 219.60V Current: 0.7270A Power: 153.60W  
Power Factor: 0.9630 Frequency: 60.00Hz

### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 46805 (4693)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 52.20 ms



## TECNOLED

Ilumina ahorrando

|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | CAM-200W-UF   | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | Ø395*105 mm        |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>LED:</b>         | SMD 3535           |

### Product Information

Product Type: CAM-200W-UF  
Product Number: 3

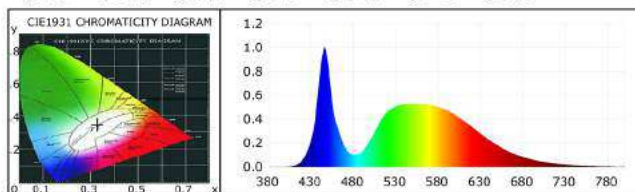
Product Spec: 200W

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3288$   $y=0.3516$   
CCT:  $T_c=5654K$  ( $duv=0.00690$ )  
Peak Wavelength: 445.5nm  
Dominant Wavelength: 555.0nm  
CRI: Ra = 72.9

$u(u')=0.2005$   $v=0.3215$   $v'=0.4823$   
Color Ratio:  $R=0.129$   $G=0.838$   $B=0.033$   
Half Bandwidth: 19.5nm  
Color Purity: 0.043

R1 = 73 R2 = 72 R3 = 71 R4 = 80 R5 = 74 R6 = 64 R7 = 81 R8 = 69  
 R9 = 0 R10 = 33 R11 = 80 R12 = 37 R13 = 71 R14 = 83 R15 = 69  
 Color Quality Scale:  $Q_a = 74.4$ ,  $Q_f = 73.8$ ,  $Q_p = 76.4$ ,  $Q_g = 89.8$   
 Q1 = 82 Q2 = 95 Q3 = 58 Q4 = 63 Q5 = 72 Q6 = 75 Q7 = 80 Q8 = 88  
 Q9 = 90 Q10 = 76 Q11 = 71 Q12 = 72 Q13 = 75 Q14 = 63 Q15 = 71



### Photometric Parameters

Luminous Flux: 19611.76 lm Efficiency: 91.94 lm/W Radiant Power: 58.693 W

### Electric Parameters

Voltage: 219.20V Current: 1.0070A Power: 213.30W  
Power Factor: 0.9660 Frequency: 60.00Hz

### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 48874 (3814)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 35.70 ms



## TECNOLED

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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | FAL42W      | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 335*280*240 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         |                    |

### Product Information

Product Type: FAL42W  
Product Number: 9

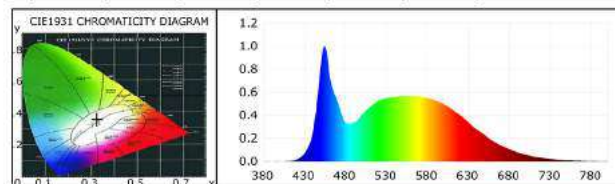
Product Spec: 42W

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3248$   $y=0.3590$   
CCT:  $T_c=5814K$  ( $duv=0.01228$ )  
Peak Wavelength: 454.0nm  
Dominant Wavelength: 533.6nm  
CRI: Ra = 83.1

$u(u')=0.1951$   $v=0.3235$   $v'=0.4853$   
Color Ratio:  $R=0.134$   $G=0.811$   $B=0.056$   
Half Bandwidth: 26.0nm  
Color Purity: 0.056

R1 = 80 R2 = 86 R3 = 90 R4 = 82 R5 = 80 R6 = 80 R7 = 92 R8 = 73  
 R9 = 9 R10 = 66 R11 = 82 R12 = 46 R13 = 82 R14 = 95 R15 = 76  
 Color Quality Scale:  $Q_a = 81.3$ ,  $Q_f = 81.8$ ,  $Q_p = 79.0$ ,  $Q_g = 86.8$   
 Q1 = 78 Q2 = 95 Q3 = 84 Q4 = 74 Q5 = 75 Q6 = 75 Q7 = 80 Q8 = 88  
 Q9 = 96 Q10 = 92 Q11 = 88 Q12 = 86 Q13 = 85 Q14 = 72 Q15 = 76



### Photometric Parameters

Luminous Flux: 4430.52 lm Efficiency: 100.03 lm/W Radiant Power: 13.605 W

### Electric Parameters

Voltage: 127.10V Current: 0.3510A Power: 44.29W  
Power Factor: 0.9930 Frequency: 59.59Hz

### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 41782 (4363)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 153.65 ms



**TECNOLED**  
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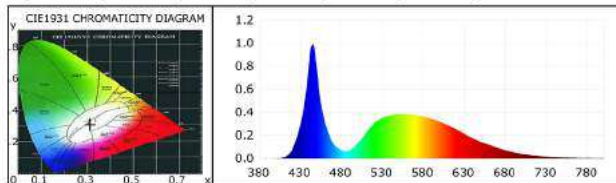
|                          |             |                     |                    |
|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | FSL50W      | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 372*250*150 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         |                    |

#### Product Information

Product Type: FSL50W  
Product Number: 1

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3137$   $y=0.3090$   $u(u')=0.2064$   $v=0.3049$   $v'=0.4574$   
 CCT:  $T_c=6620K$  ( $duv=-0.00802$ )  
 Peak Wavelength: 445.0nm  
 Dominant Wavelength: 471.8nm  
 CRI: Ra: 74.2  
 R1 = 81 R2 = 73 R3 = 60 R4 = 80 R5 = 81 R6 = 62 R7 = 77 R8 = 78  
 R9 = 24 R10 = 30 R11 = 85 R12 = 40 R13 = 76 R14 = 77 R15 = 82  
 Color Quality Scale: Qa = 70.9, Qf = 67.6, Qp = 79.1, Qg = 96.0  
 Q1 = 87 Q2 = 90 Q3 = 59 Q4 = 52 Q5 = 69 Q6 = 77 Q7 = 84 Q8 = 93  
 Q9 = 81 Q10 = 66 Q11 = 60 Q12 = 63 Q13 = 70 Q14 = 72 Q15 = 80



#### Photometric Parameters

Luminous Flux: 3777.09 lm Efficiency: 72.62 lm/W Radiant Power: 12.485 W

#### Electric Parameters

Voltage: 125.80V Current: 0.4150A Power: 52.01W  
 Power Factor: 0.9870 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800:1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 43693 (4814)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 119.62 ms



**TECNOLED**  
Ilumina ahorrando

|                          |             |                     |                    |
|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | FWL15W      | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 278*172*80 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         |                    |

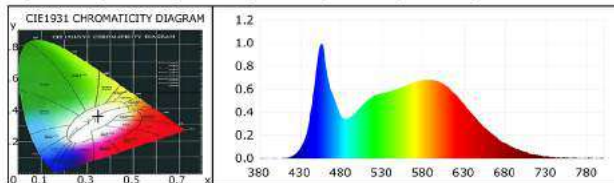
#### Product Information

Product Type: FWL15W  
Product Number: 1

Product Spec: 15W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3475$   $y=0.3618$   $u(u')=0.2091$   $v=0.3266$   $v'=0.4899$   
 CCT:  $T_c=4948K$  ( $duv=0.00409$ )  
 Peak Wavelength: 455.3nm  
 Dominant Wavelength: 588.0nm  
 CRI: Ra: 83.3  
 R1 = 82 R2 = 92 R3 = 95 R4 = 79 R5 = 81 R6 = 88 R7 = 85 R8 = 65  
 R9 = 6 R10 = 79 R11 = 78 R12 = 58 R13 = 85 R14 = 98 R15 = 75  
 Color Quality Scale: Qa = 82.6, Qf = 83.1, Qp = 80.4, Qg = 89.1  
 Q1 = 79 Q2 = 96 Q3 = 84 Q4 = 76 Q5 = 78 Q6 = 79 Q7 = 83 Q8 = 89  
 Q9 = 97 Q10 = 93 Q11 = 89 Q12 = 87 Q13 = 85 Q14 = 72 Q15 = 75



#### Photometric Parameters

Luminous Flux: 1384.35 lm Efficiency: 80.58 lm/W Radiant Power: 4.235 W

#### Electric Parameters

Voltage: 127.30V Current: 0.1400A Power: 17.18W  
 Power Factor: 0.9660 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800:1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 44135 (5117)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 601.98 ms



**TECNOLED**  
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|                          |               |                     |                    |
|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-G13-9W  | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 606*26 mm          |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>Material:</b>    | Aluminio + PC      |

#### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-TU-G13-9W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3183$   $y=0.3348$

CCT:  $T_c=6178K$  ( $duv=0.00340$ )

Peak Wavelength: 447.2nm

Dominant Wavelength: 503.3nm

CRI: Ra = 71.8

R1 = 73 R2 = 71 R3 = 67

R9 = 0 R10 = 29 R11 = 78

Color Quality Scale: Qa = 71.4, Qf = 70.3, Qp = 74.9, Qg = 89.6

Q1 = 83 Q2 = 94 Q3 = 64

Q9 = 87 Q10 = 72 Q11 = 65

$u(u')=0.1995$   $v=0.3148$   $v'=0.4722$

Color Ratio: R=0.124 G=0.841 B=0.035

Half Bandwidth: 25.1nm

Color Purity: 0.050

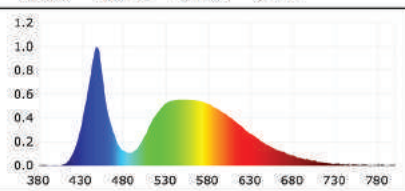
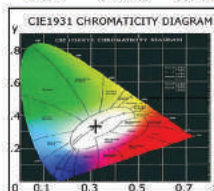
R4 = 79 R5 = 74 R6 = 61

R12 = 35 R13 = 70 R14 = 81

Q4 = 56 Q5 = 67 Q6 = 73

Q12 = 68 Q13 = 71 Q14 = 63

Q7 = 79 Q8 = 88 Q15 = 71



#### Photometric Parameters

Luminous Flux: 938.09 lm

Efficiency: 107.33 lm/W

Radiant Power: 2.887 W

#### Electric Parameters

Voltage: 127.20V

Power Factor: 0.9680

Current: 0.0710A

Frequency: 60.00Hz

Power: 8.74W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44011 (4896)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 579.59 ms



**TECNOLED**  
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|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-TRA-18W | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 1216*26 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-TU-TRA-18W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3161$   $y=0.3310$

CCT:  $T_c=6310K$  ( $duv=0.00252$ )

Peak Wavelength: 447.0nm

Dominant Wavelength: 500.0nm

CRI: Ra = 71.9

R1 = 73 R2 = 71 R3 = 66

R9 = 0 R10 = 28 R11 = 78

Color Quality Scale: Qa = 71.4, Qf = 70.0, Qp = 75.3, Qg = 90.0

Q1 = 83 Q2 = 93 Q3 = 64

Q9 = 87 Q10 = 71 Q11 = 65

$u(u')=0.1995$   $v=0.3133$   $v'=0.4699$

Color Ratio: R=0.123 G=0.842 B=0.035

Half Bandwidth: 24.9nm

Color Purity: 0.060

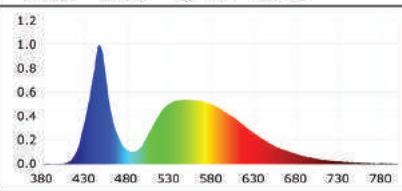
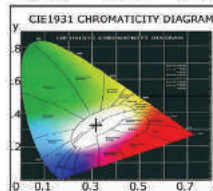
R4 = 79 R5 = 74 R6 = 61

R12 = 36 R13 = 71 R14 = 81

Q4 = 55 Q5 = 68 Q6 = 73

Q12 = 67 Q13 = 71 Q14 = 63

Q7 = 80 Q8 = 88 Q15 = 72



#### Photometric Parameters

Luminous Flux: 1763.71 lm

Efficiency: 92.92 lm/W

Radiant Power: 5.488 W

#### Electric Parameters

Voltage: 220.30V

Power Factor: 0.9750

Current: 0.0880A

Frequency: 60.00Hz

Power: 18.98W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44884 (3860)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 282.20 ms



**TECNOLED**  
Ilumina ahorrando

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|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-G13-28W | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 1215*26 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-TU-G13-28W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3170$   $y=0.3319$

CCT:  $T_c=6260K$  ( $duv=0.00257$ )

Peak Wavelength: 446.7nm

Dominant Wavelength: 490.6nm

CRI: Ra = 71.5

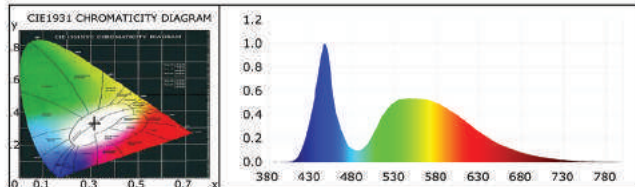
R1 = 73 R2 = 71 R3 = 66 R4 = 79 R5 = 74 R6 = 61 R7 = 79 R8 = 70

R9 = 0 R10 = 27 R11 = 78 R12 = 36 R13 = 70 R14 = 80 R15 = 71

Color Quality Scale:  $Q_a=71.2$ ,  $Q_f=69.8$ ,  $Q_p=75.3$ ,  $Q_g=90.1$

Q1 = 83 Q2 = 93 Q3 = 63 Q4 = 55 Q5 = 68 Q6 = 73 Q7 = 80 Q8 = 88

Q9 = 86 Q10 = 70 Q11 = 64 Q12 = 67 Q13 = 71 Q14 = 63 Q15 = 72



#### Photometric Parameters

Luminous Flux: 2841.31 lm

Efficiency: 98.32 lm/W

Radiant Power: 8.813 W

#### Electric Parameters

Voltage: 219.80V

Power Factor: 0.9710

Current: 0.1360A

Frequency: 60.00Hz

Power: 28.90W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 46077 (3742)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 180.83 ms



**TECNOLED**  
Ilumina ahorrando

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|--------------------------|-----------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS   | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-CR-18W-TR | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K           | <b>Medidas:</b>     | 1212*26 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~     | <b>Material:</b>    | Cristal            |

#### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-TU-CR-18W-TR

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3135$   $y=0.3211$

CCT:  $T_c=6526K$  ( $duv=0.00132$ )

Peak Wavelength: 445.1nm

Dominant Wavelength: 483.3nm

CRI: Ra = 70.6

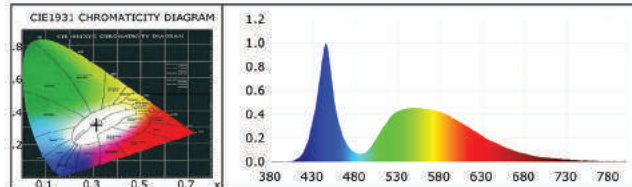
R1 = 75 R2 = 69 R3 = 61 R4 = 78 R5 = 75 R6 = 59 R7 = 76 R8 = 71

R9 = 0 R10 = 23 R11 = 80 R12 = 36 R13 = 70 R14 = 78 R15 = 73

Color Quality Scale:  $Q_a=69.9$ ,  $Q_f=67.5$ ,  $Q_p=76.2$ ,  $Q_g=91.9$

Q1 = 84 Q2 = 91 Q3 = 60 Q4 = 53 Q5 = 67 Q6 = 74 Q7 = 80 Q8 = 90

Q9 = 83 Q10 = 67 Q11 = 60 Q12 = 64 Q13 = 69 Q14 = 65 Q15 = 74



#### Photometric Parameters

Luminous Flux: 1758.96 lm

Efficiency: 100.57 lm/W

Radiant Power: 5.601 W

#### Electric Parameters

Voltage: 220.10V

Power Factor: 0.9810

Current: 0.0810A

Frequency: 60.00Hz

Power: 17.49W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 52009 (3877)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 282.20 ms



|                          |                 |                     |                    |
|--------------------------|-----------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS   | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-T5-CR-18W-TR | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K           | <b>Medidas:</b>     | 1170*16 mm         |
| <b>Rango de Voltaje:</b> | 90 - 140 V~     | <b>Material:</b>    | Cristal            |

### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-T5-CR-18W-TR

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3166$   $y=0.3268$

CCT:  $T_c=6310K$  ( $duv=0.00009$ )

Peak Wavelength: 445.6nm

Dominant Wavelength: 486.6nm

CRI: Ra = 71.1

R1 = 74 R2 = 70 R3 = 63 R4 = 78

R9 = 0 R10 = 25 R11 = 79 R12 = 35

Color Quality Scale:  $Q_a=70.3$ ,  $Q_f=66.3$ ,  $Q_p=75.6$ ,  $Q_g=91.2$

Q1 = 84 Q2 = 92 Q3 = 61 Q4 = 53

Q9 = 85 Q10 = 68 Q11 = 62 Q12 = 65

$u(u')=0.2014$   $v=0.3118$   $v'=0.4677$

Color Ratio:  $R=0.125$   $G=0.842$   $B=0.033$

Half Bandwidth: 21.3nm

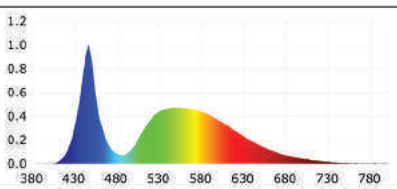
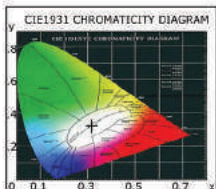
Color Purity: 0.061

R5 = 75 R6 = 60 R7 = 78 R8 = 71

R13 = 70 R14 = 79 R15 = 72

$Q_5=67$   $Q_6=73$   $Q_7=80$   $Q_8=89$

Q13 = 70 Q14 = 64 Q15 = 73



### Photometric Parameters

Luminous Flux: 1834.47 lm

Efficiency: 95.79 lm/W

Radiant Power: 5.739 W

### Electric Parameters

Voltage: 127.20V

Power Factor: 0.6830

Current: 0.2200A

Frequency: 60.00Hz

Power: 19.15W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44028 (4225)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 255.11 ms



|                          |                 |                     |                    |
|--------------------------|-----------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS   | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-T5-18W-TR | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K           | <b>Medidas:</b>     | 1163*16 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~     | <b>Material:</b>    | Aluminio           |

### Product Information

Product Type: TECNOLED PLUS

Product Number: ML-TU-T5-18W-TR

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3266$   $y=0.3475$

CCT:  $T_c=5752K$  ( $duv=0.00588$ )

Peak Wavelength: 452.5nm

Dominant Wavelength: 523.2nm

CRI: Ra = 76.5

R1 = 75 R2 = 77 R3 = 77 R4 = 82

R9 = 0 R10 = 43 R11 = 79 R12 = 38

Color Quality Scale:  $Q_a=74.7$ ,  $Q_f=74.7$ ,  $Q_p=75.3$ ,  $Q_g=88.3$

Q1 = 82 Q2 = 97 Q3 = 70 Q4 = 61

Q9 = 92 Q10 = 79 Q11 = 73 Q12 = 74

$u(u')=0.2005$   $v=0.3200$   $v'=0.4799$

Color Ratio:  $R=0.131$   $G=0.829$   $B=0.040$

Half Bandwidth: 23.9nm

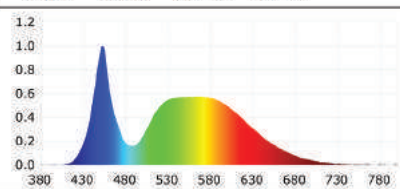
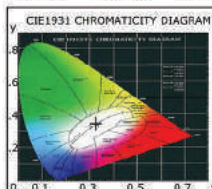
Color Purity: 0.029

R5 = 75 R6 = 68 R7 = 88 R8 = 69

R13 = 75 R14 = 87 R15 = 72

$Q_5=69$   $Q_6=73$   $Q_7=80$   $Q_8=88$

Q13 = 75 Q14 = 64 Q15 = 71



### Photometric Parameters

Luminous Flux: 1906.74 lm

Efficiency: 102.62 lm/W

Radiant Power: 5.692 W

### Electric Parameters

Voltage: 127.00V

Power Factor: 0.9640

Current: 0.1520A

Frequency: 60.00Hz

Power: 18.58W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 42725 (4629)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 300.58 ms



**TECNOLED**  
Ilumina ahorrando

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|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED      | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-CUR-18W | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 600 mm             |
| <b>Rango de Voltaje:</b> | 85-265 V~     | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED

Product Number: ML-TU-CUR-18W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3208$   $y=0.3394$

CCT:  $T_c=6036K$  ( $duv=0.00451$ )

Peak Wavelength: 450.1nm

Dominant Wavelength: 498.1nm

CRI: Ra = 73.3

R1 = 73 R2 = 73 R3 = 71 R4 = 80 R5 = 74 R6 = 63 R7 = 84 R8 = 69

R9 = 0 R10 = 33 R11 = 77 R12 = 35 R13 = 71 R14 = 83 R15 = 71

Color Quality Scale:  $Q_a=72.2$ ,  $Q_f=71.5$ ,  $Q_p=74.4$ ,  $Q_g=88.7$

Q1 = 83 Q2 = 95 Q3 = 66 Q4 = 56 Q5 = 67 Q6 = 72 Q7 = 79 Q8 = 87

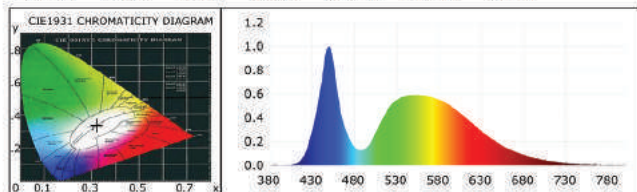
Q9 = 89 Q10 = 74 Q11 = 68 Q12 = 69 Q13 = 72 Q14 = 63 Q15 = 71

$u'(u)=0.1995$   $v=0.3167$   $v'=0.4750$

Color Ratio:  $R=0.125$   $G=0.838$   $B=0.037$

Half Bandwidth: 26.5nm

Color Purity: 0.039



#### Photometric Parameters

Luminous Flux: 1860.36 lm

Efficiency: 96.59 lm/W

Radiant Power: 5.680 W

#### Electric Parameters

Voltage: 127.10V

Power Factor: 0.9710

Current: 0.1560A

Frequency: 60.00Hz

Power: 19.26W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 46016 (4596)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 326.44 ms



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|--------------------------|--------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-INT-9W | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K        | <b>Medidas:</b>     | 600 mm             |
| <b>Rango de Voltaje:</b> | 85-265 V~    | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED

Product Number: ML-TU-INT-9W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3158$   $y=0.3316$

CCT:  $T_c=6324K$  ( $duv=0.00297$ )

Peak Wavelength: 450.0nm

Dominant Wavelength: 490.4nm

CRI: Ra = 73.7

R1 = 74 R2 = 73 R3 = 69 R4 = 81 R5 = 75 R6 = 63 R7 = 83 R8 = 71

R9 = 0 R10 = 33 R11 = 79 R12 = 36 R13 = 72 R14 = 82 R15 = 73

Color Quality Scale:  $Q_a=72.3$ ,  $Q_f=71.2$ ,  $Q_p=75.4$ ,  $Q_g=89.7$

Q1 = 84 Q2 = 94 Q3 = 65 Q4 = 56 Q5 = 67 Q6 = 73 Q7 = 80 Q8 = 88

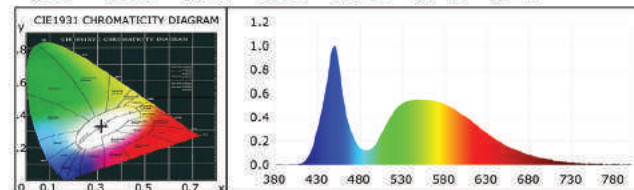
Q9 = 88 Q10 = 73 Q11 = 67 Q12 = 69 Q13 = 72 Q14 = 65 Q15 = 73

$u'(u)=0.1990$   $v=0.3134$   $v'=0.4702$

Color Ratio:  $R=0.124$   $G=0.838$   $B=0.039$

Half Bandwidth: 25.7nm

Color Purity: 0.060



#### Photometric Parameters

Luminous Flux: 882.88 lm

Efficiency: 95.55 lm/W

Radiant Power: 2.754 W

#### Electric Parameters

Voltage: 127.30V

Power Factor: 0.9670

Current: 0.0750A

Frequency: 59.99Hz

Power: 9.24W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 46257 (3542)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 595.00 ms



**TECNOLED**  
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|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-TU-INT-18W | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 1208*31*33 mm      |
| <b>Rango de Voltaje:</b> | 85-265 V~     | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED PLUS  
Product Number: ML-TU-INT-18W

#### Product Spec:

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3158$   $y=0.3323$

CCT:  $T_c=6316K$  ( $duv=0.00333$ )

Peak Wavelength: 448.9nm

Dominant Wavelength: 501.1nm

CRI: Ra = 72.7

R1 = 74 R2 = 72 R3 = 67 R4 = 80

R9 = 0 R10 = 30 R11 = 78 R12 = 35

Color Quality Scale: Qa = 71.8, Qf = 70.6, Qp = 75.3, Qg = 89.8

Q1 = 84 Q2 = 94 Q3 = 64 Q4 = 55

Q9 = 87 Q10 = 72 Q11 = 66 Q12 = 68

$u(u')=0.1988$   $v=0.3137$   $v'=0.4705$

Color Ratio: R = 0.123 G = 0.841 B = 0.037

Half Bandwidth: 25.7nm

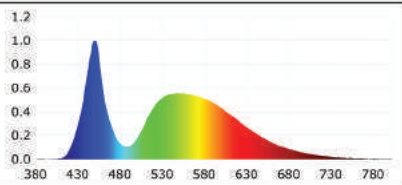
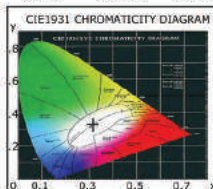
Color Purity: 0.050

R5 = 74 R6 = 62 R7 = 81 R8 = 71

R13 = 71 R14 = 81 R15 = 72

Q5 = 67 Q6 = 73 Q7 = 60 Q8 = 88

Q13 = 72 Q14 = 64 Q15 = 73



#### Photometric Parameters

Luminous Flux: 1865.60 lm

Efficiency: 94.27 lm/W

Radiant Power: 5.793 W

#### Electric Parameters

Voltage: 127.30V

Power Factor: 0.9670

Current: 0.1610A

Frequency: 60.00Hz

Power: 19.79W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 45649 (3986)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 299.52 ms



**TECNOLED**  
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|--------------------------|--------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-PA-30X120 | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K        | <b>Medidas:</b>     | 295*1195*10 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~  | <b>Material:</b>    | Aluminio + PMMA    |

#### Product Information

Product Type: TECNOLED

Product Number: ML-PA-30X120

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3360$   $y=0.3617$

CCT:  $T_c=5372K$  ( $duv=0.00869$ )

Peak Wavelength: 455.7nm

Dominant Wavelength: 558.4nm

CRI: Ra = 74.1

R1 = 71 R2 = 77 R3 = 78 R4 = 77

R9 = 0 R10 = 40 R11 = 71 R12 = 30

Color Quality Scale: Qa = 72.1, Qf = 72.4, Qp = 71.2, Qg = 85.4

Q1 = 79 Q2 = 98 Q3 = 69 Q4 = 56

Q9 = 92 Q10 = 79 Q11 = 72 Q12 = 73

$u(u')=0.2016$   $v=0.3254$   $v'=0.4881$

Color Ratio: R = 0.131 G = 0.830 B = 0.039

Half Bandwidth: 23.4nm

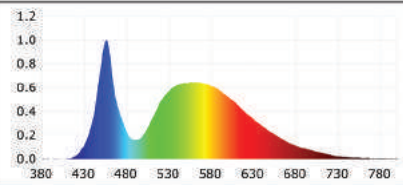
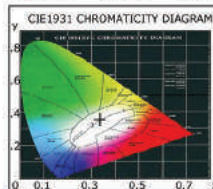
Color Purity: 0.094

R5 = 70 R6 = 66 R7 = 89 R8 = 66

R13 = 72 R14 = 87 R15 = 68

Q5 = 63 Q6 = 66 Q7 = 75 Q8 = 85

Q13 = 74 Q14 = 63 Q15 = 70



#### Photometric Parameters

Luminous Flux: 2703.03 lm

Efficiency: 72.43 lm/W

Radiant Power: 7.955 W

#### Electric Parameters

Voltage: 240.00V

Power Factor: 0.9640

Current: 0.1620A

Frequency: 60.00Hz

Power: 37.32W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 51740 (3082)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 261.24 ms



**TECNOLED**  
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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-PA-60X60 | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 595*596*10 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio + PMMA    |

#### Product Information

Product Type: TECNOLED

Product Number: ML-PA-60X60

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3360$   $y=0.3617$

CCT:  $T_c=5370K$  ( $duv=0.00870$ )

Peak Wavelength: 455.9nm

Dominant Wavelength: 558.5nm

CRI: Ra= 74.1

R1 =71 R2 =77 R3 =78 R4 =77 R5 =70 R6 =66 R7 =89 R8 =66

R9 =0 R10=40 R11=71 R12=30 R13=72 R14=87 R15=68

Color Quality Scale:  $Q_a=72.1$ ,  $Q_f=72.4$ ,  $Q_p=71.2$ ,  $Q_g=85.4$

Q1 =79 Q2 =98 Q3 =69 Q4 =56 Q5 =63 Q6 =66 Q7 =75 Q8 =85

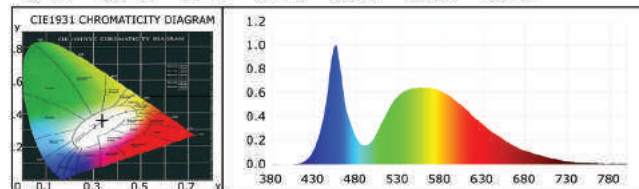
Q9 =92 Q10=79 Q11=72 Q12=73 Q13=74 Q14=63 Q15=70

$u(u')=0.2016$   $v=0.3255$   $v'=0.4862$

Color Ratio: R=0.131 G=0.830 B=0.039

Half Bandwidth: 23.4nm

Color Purity: 0.094



#### Photometric Parameters

Luminous Flux: 2703.56 lm

Efficiency: 72.56 lm/W

Radiant Power: 7.963 W

#### Electric Parameters

Voltage: 219.70V

Power Factor: 0.9720

Current: 0.1730A

Frequency: 60.00Hz

Power: 37.26W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 51651 (3064)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 261.24 ms



**TECNOLED**  
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|--------------------------|--------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-PA-60X120 | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K        | <b>Medidas:</b>     | 595*1195*10 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~  | <b>Material:</b>    | Aluminio + PMMA    |

#### Product Information

Product Type: TECNOLED

Product Number: ML-PA-60X120

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3241$   $y=0.3494$

CCT:  $T_c=5860K$  ( $duv=0.00796$ )

Peak Wavelength: 454.8nm

Dominant Wavelength: 529.7nm

CRI: Ra= 84.2

R1 =83 R2 =87 R3 =89 R4 =84 R5 =81 R6 =80 R7 =93 R8 =76

R9 =18 R10=67 R11=84 R12=47 R13=84 R14=94 R15=79

Color Quality Scale:  $Q_a=81.3$ ,  $Q_f=81.6$ ,  $Q_p=79.4$ ,  $Q_g=88.6$

Q1 =80 Q2 =96 Q3 =82 Q4 =71 Q5 =74 Q6 =75 Q7 =82 Q8 =90

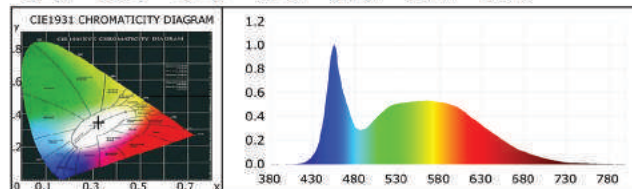
Q9 =97 Q10=91 Q11=86 Q12=84 Q13=84 Q14=74 Q15=78

$u(u')=0.1981$   $v=0.3203$   $v'=0.4805$

Color Ratio: R=0.137 G=0.807 B=0.056

Half Bandwidth: 25.5nm

Color Purity: 0.033



#### Photometric Parameters

Luminous Flux: 5657.99 lm

Efficiency: 73.34 lm/W

Radiant Power: 17.644 W

#### Electric Parameters

Voltage: 126.80V

Power Factor: 0.7540

Current: 0.8070A

Frequency: 59.99Hz

Power: 77.15W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 49184 (3848)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 115.17 ms



**TECNOLED**  
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|--------------------------|---------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED PLUS | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | PLS-60x60     | <b>Garantía:</b>    | 3 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K         | <b>Medidas:</b>     | 596*596*10 mm      |
| <b>Rango de Voltaje:</b> | 85 - 265 V~   | <b>Material:</b>    | Aluminio + PMMA    |

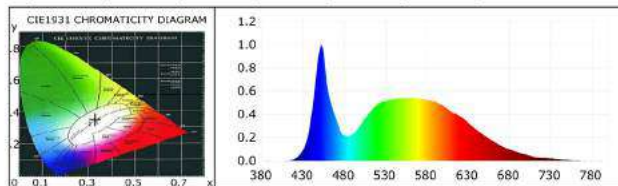
#### Product Information

Product Type: PLS-60x60

Product Spec: 36W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3285$   $y=0.3534$   $u(u')=0.1996$   $v=0.3221$   $v'=0.4831$   
 CCT:  $T_c=5666K$  ( $duv=0.00794$ )  
 Peak Wavelength: 451.3nm  
 Dominant Wavelength: 540.6nm  
 CRI: Ra=81.0  
 R1=79 R2=82 R3=82 R4=86 R5=79 R6=74 R7=91 R8=75  
 R9=8 R10=55 R11=84 R12=43 R13=79 R14=90 R15=76  
 Color Quality Scale:  $Q_a=79.7$ ,  $Q_f=79.9$ ,  $Q_p=79.0$ ,  $Q_g=89.4$   
 Q1=83 Q2=98 Q3=76 Q4=68 Q5=74 Q6=77 Q7=83 Q8=90  
 Q9=95 Q10=65 Q11=81 Q12=81 Q13=81 Q14=71 Q15=76



#### Photometric Parameters

Luminous Flux: 3265.30 lm

Efficiency: 89.71 lm/W

Radiant Power: 9.948 W

#### Electric Parameters

Voltage: 126.90V  
Power Factor: 0.9870

Current: 0.2900A  
Frequency: 60.00Hz

Power: 36.40W

#### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 48156 (3988)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 223.95 ms



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|                          |             |                     |                    |
|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-PDL-12W  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | Ø172*153*24 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio           |

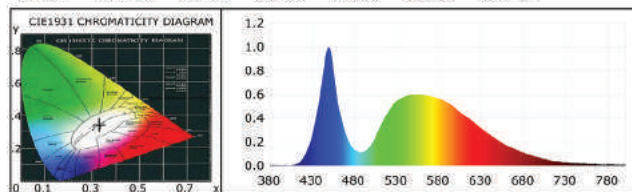
#### Product Information

Product Type: TECNOLED

Product Number: ML-PDL-12W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3295$   $y=0.3452$   $u(u')=0.2034$   $v=0.3195$   $v'=0.4792$   
 CCT:  $T_c=5622K$  ( $duv=0.00336$ )  
 Peak Wavelength: 449.4nm  
 Dominant Wavelength: 535.4nm  
 CRI: Ra=72.8  
 R1=73 R2=73 R3=69 R4=80 R5=73 R6=62 R7=83 R8=70  
 R9=0 R10=32 R11=76 R12=33 R13=71 R14=82 R15=71  
 Color Quality Scale:  $Q_a=71.6$ ,  $Q_f=70.8$ ,  $Q_p=74.1$ ,  $Q_g=89.6$   
 Q1=83 Q2=95 Q3=64 Q4=55 Q5=66 Q6=71 Q7=79 Q8=87  
 Q9=88 Q10=73 Q11=66 Q12=69 Q13=72 Q14=64 Q15=72



#### Photometric Parameters

Luminous Flux: 1096.28 lm

Efficiency: 90.45 lm/W

Radiant Power: 3.349 W

#### Electric Parameters

Voltage: 220.30V  
Power Factor: 0.6030

Current: 0.0910A  
Frequency: 60.00Hz

Power: 12.12W

#### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 46391 (3837)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 521.09 ms



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| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-PDL-18W  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | Ø225*200*25 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED

Product Number: ML-PDL-18W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3267$   $y=0.3393$

CCT:  $T_c=5762K$  ( $duv=0.00170$ )

Peak Wavelength: 450.5nm

Dominant Wavelength: 503.9nm

CRI: Ra = 73.7

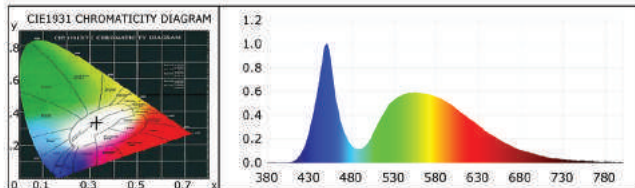
R1 = 74 R2 = 74 R3 = 69 R4 = 81 R5 = 74 R6 = 63 R7 = 83 R8 = 72

R9 = 0 R10 = 33 R11 = 78 R12 = 35 R13 = 72 R14 = 82 R15 = 73

Color Quality Scale:  $Q_a=71.8$ ,  $Q_f=70.8$ ,  $Q_p=74.7$ ,  $Q_g=90.3$

Q1 = 84 Q2 = 94 Q3 = 64 Q4 = 54 Q5 = 66 Q6 = 72 Q7 = 80 Q8 = 88

Q9 = 87 Q10 = 73 Q11 = 66 Q12 = 68 Q13 = 72 Q14 = 66 Q15 = 73



#### Photometric Parameters

Luminous Flux: 1608.85 lm

Efficiency: 91.67 lm/W

Radiant Power: 4.977 W

#### Electric Parameters

Voltage: 220-20V

Power Factor: 0.6220

Current: 0.1280A

Frequency: 60.00Hz

Power: 17.55W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 49818 (3746)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 376.48 ms



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| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-DL-7W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | Ø120*106*22 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: TECNOLED

Product Number: ML-DL-7W-BB

Product Spec: BLANCO/PLATA

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3168$   $y=0.3468$

CCT:  $T_c=6194K$  ( $duv=0.01005$ )

Peak Wavelength: 450.0nm

Dominant Wavelength: 502.7nm

CRI: Ra = 73.3

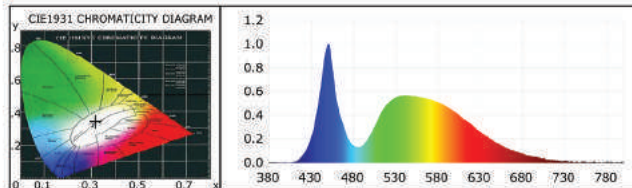
R1 = 72 R2 = 73 R3 = 73 R4 = 79 R5 = 73 R6 = 64 R7 = 84 R8 = 68

R9 = 0 R10 = 34 R11 = 77 R12 = 35 R13 = 70 R14 = 85 R15 = 68

Color Quality Scale:  $Q_a=74.2$ ,  $Q_f=73.9$ ,  $Q_p=75.1$ ,  $Q_g=87.5$

Q1 = 82 Q2 = 96 Q3 = 70 Q4 = 61 Q5 = 70 Q6 = 73 Q7 = 79 Q8 = 87

Q9 = 91 Q10 = 77 Q11 = 72 Q12 = 73 Q13 = 75 Q14 = 62 Q15 = 70



#### Photometric Parameters

Luminous Flux: 720.57 lm

Efficiency: 94.32 lm/W

Radiant Power: 2.158 W

#### Electric Parameters

Voltage: 127.10V

Power Factor: 0.6280

Current: 0.0960A

Frequency: 60.00Hz

Power: 7.64W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 47132 (4277)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 824.68 ms



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| <b>Marca:</b>            | TECNOLED     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-DL-12W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K        | <b>Medidas:</b>     | Ø170*155*22 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~  | <b>Material:</b>    | Aluminio           |

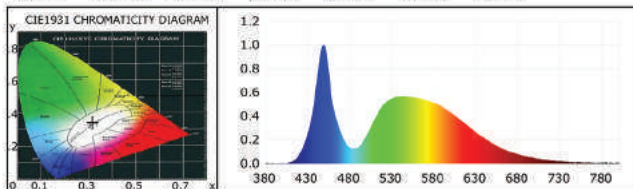
#### Product Information

Product Type: TECNOLED  
Product Number: ML-DL-12W-BB

Product Spec: BLANCO/PLATA

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3172$   $y=0.3448$   
CCT:  $T_c=6186K$  ( $duv=-0.00891$ )  
Peak Wavelength: 449.0nm  
Dominant Wavelength: 501.2nm  
CRI: Ra = 73.0  
R1 = 72 R2 = 73 R3 = 72 R4 = 79 R5 = 73 R6 = 64 R7 = 83 R8 = 68  
R9 = 0 R10 = 33 R11 = 78 R12 = 35 R13 = 70 R14 = 84 R15 = 68  
Color Quality Scale: Qa = 73.9, Qf = 73.5, Qp = 75.3, Qg = 88.0  
Q1 = 82 Q2 = 96 Q3 = 69 Q4 = 61 Q5 = 70 Q6 = 73 Q7 = 79 Q8 = 87  
Q9 = 91 Q10 = 76 Q11 = 71 Q12 = 73 Q13 = 75 Q14 = 62 Q15 = 70



#### Photometric Parameters

Luminous Flux: 1181.51 lm Efficiency: 96.69 lm/W Radiant Power: 3.565 W

#### Electric Parameters

Voltage: 127.30V Current: 0.1470A Power: 12.22W  
Power Factor: 0.6510 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800nm  
Stabilization Time: 0 ms  
Max of Signal: 45060 (3953)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 479.96 ms



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| <b>Marca:</b>            | TECNOLED     | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-CL-12W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K        | <b>Medidas:</b>     | Ø139*69*108 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~  | <b>Material:</b>    | Aluminio           |

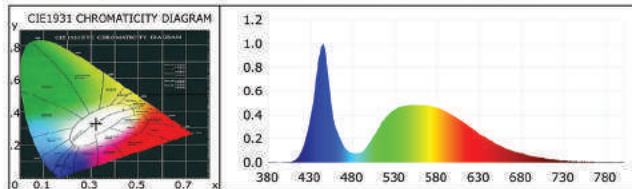
#### Product Information

Product Type: TECNOLED

Product Number: ML-CL-12W-BB

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3218$   $y=0.3310$   
CCT:  $T_c=6018K$  ( $duv=-0.00026$ )  
Peak Wavelength: 444.9nm  
Dominant Wavelength: 489.1nm  
CRI: Ra = 70.4  
R1 = 74 R2 = 70 R3 = 63 R4 = 77 R5 = 75 R6 = 60 R7 = 76 R8 = 69  
R9 = 0 R10 = 25 R11 = 79 R12 = 37 R13 = 70 R14 = 79 R15 = 71  
Color Quality Scale: Qa = 70.5, Qf = 68.5, Qp = 76.0, Qg = 91.6  
Q1 = 82 Q2 = 91 Q3 = 61 Q4 = 56 Q5 = 69 Q6 = 74 Q7 = 80 Q8 = 89  
Q9 = 85 Q10 = 68 Q11 = 62 Q12 = 65 Q13 = 70 Q14 = 63 Q15 = 72



#### Photometric Parameters

Luminous Flux: 1014.08 lm Efficiency: 82.18 lm/W Radiant Power: 3.155 W

#### Electric Parameters

Voltage: 220.30V Current: 0.0930A Power: 12.34W  
Power Factor: 0.6030 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800nm  
Stabilization Time: 0 ms  
Max of Signal: 44888 (3865)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 454.66 ms



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| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-RCL-12W  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | Ø166*21 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio + PC      |

### Product Information

Product Type: TECNOLED

Product Number: ML-RCL-12W

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3185$   $y=0.3314$

CCT:  $T_c=6186K$  ( $duv=0.00156$ )

Peak Wavelength: 443.1nm

Dominant Wavelength: 490.1nm

CRI: Ra = 74.5

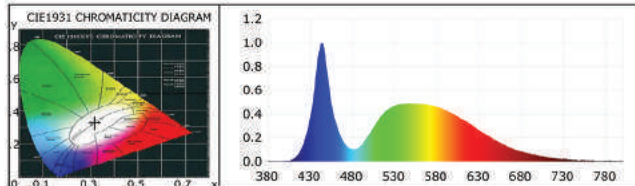
R1 = 78 R2 = 73 R3 = 67 R4 = 80 R5 = 79 R6 = 65 R7 = 79 R8 = 74

R9 = 6 R10 = 34 R11 = 84 R12 = 45 R13 = 74 R14 = 81 R15 = 75

Color Quality Scale:  $Q_a=75.4$ ,  $Q_f=73.8$ ,  $Q_p=79.8$ ,  $Q_g=93.2$

Q1 = 85 Q2 = 93 Q3 = 67 Q4 = 63 Q5 = 75 Q6 = 79 Q7 = 83 Q8 = 91

Q9 = 87 Q10 = 73 Q11 = 69 Q12 = 71 Q13 = 75 Q14 = 68 Q15 = 76



### Photometric Parameters

Luminous Flux: 1023.34 lm

Efficiency: 89.83 lm/W

Radiant Power: 3.254 W

### Electric Parameters

Voltage: 220.60V

Power Factor: 0.9960

Current: 0.0880A

Frequency: 60.00Hz

Power: 11.52W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 43632 (4020)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 454.66 ms



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| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-RCL-16W  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | Ø220*21 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio + PC      |

### Product Information

Product Type: TECNOLED

Product Number: ML-RCL-16W-BB/BN

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3179$   $y=0.3277$

CCT:  $T_c=6236K$  ( $duv=-0.00007$ )

Peak Wavelength: 448.8nm

Dominant Wavelength: 486.9nm

CRI: Ra = 73.8

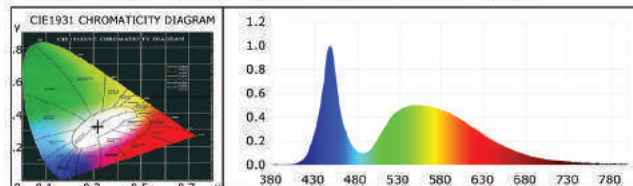
R1 = 76 R2 = 73 R3 = 67 R4 = 81 R5 = 76 R6 = 62 R7 = 82 R8 = 73

R9 = 1 R10 = 32 R11 = 79 R12 = 35 R13 = 73 R14 = 81 R15 = 75

Color Quality Scale:  $Q_a=71.3$ ,  $Q_f=69.8$ ,  $Q_p=75.6$ ,  $Q_g=91.1$

Q1 = 85 Q2 = 93 Q3 = 63 Q4 = 53 Q5 = 66 Q6 = 72 Q7 = 81 Q8 = 89

Q9 = 86 Q10 = 71 Q11 = 64 Q12 = 67 Q13 = 71 Q14 = 67 Q15 = 75



### Photometric Parameters

Luminous Flux: 1397.03 lm

Efficiency: 83.31 lm/W

Radiant Power: 4.411 W

### Electric Parameters

Voltage: 127.40V

Power Factor: 0.9740

Current: 0.1350A

Frequency: 59.99Hz

Power: 16.77W

### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 41972 (4005)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 332.26 ms



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| <b>Marca:</b>            | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-RCL-24W  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | Ø286*21 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio + PC      |

#### Product Information

Product Type: TECNOLED

Product Number: ML-RCL-24W

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3245$   $y=0.3495$

CCT:  $T_c=5842K$  ( $duv=0.00782$ )

Peak Wavelength: 450.4nm

Dominant Wavelength: 518.7nm

CRI: Ra = 75.6

R1 = 74 R2 = 76

R9 = 0 R10 = 40

Color Quality Scale:  $Q_a=75.6$ ,  $Q_f=75.4$ ,  $Q_p=76.3$ ,  $Q_g=88.8$

Q1 = 83 Q2 = 97

Q9 = 92 Q10 = 79

Q11 = 74 Q12 = 75

Q13 = 76 Q14 = 65

Q15 = 72

$u'(u')=0.1983$   $v'=0.3204$   $v''=0.4806$

Color Ratio:  $R=0.128$   $G=0.833$   $B=0.039$

Half Bandwidth: 24.1nm

Color Purity: 0.033

R5 = 75 R6 = 67

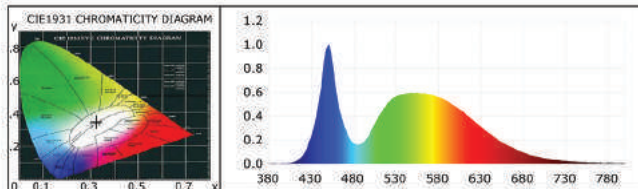
R7 = 86 R8 = 70

R13 = 73 R14 = 86

R15 = 71

Q6 = 75 Q7 = 81

Q8 = 86



#### Photometric Parameters

Luminous Flux: 2086.01 lm

Efficiency: 89.72 lm/W

Radiant Power: 6.322 W

#### Electric Parameters

Voltage: 127.20V

Power Factor: 0.6900

Current: 0.2640A

Frequency: 60.00Hz

Power: 23.25W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 44910 (3826)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 293.80 ms



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| <b>Marca:</b>            | TECNOLED       | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | ML-GST3-IP65-A | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K          | <b>Medidas:</b>     | 1210*75*68mm       |
| <b>Rango de Voltaje:</b> | 85 - 265 V~    | <b>Material:</b>    | PC                 |

#### Product Information

Product Type: TECNOLED

Product Number: ML-GST3-IP65-A

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3093$   $y=0.3198$

CCT:  $T_c=6782K$  ( $duv=0.00017$ )

Peak Wavelength: 446.1nm

Dominant Wavelength: 484.1nm

CRI: Ra = 73.6

R1 = 77 R2 = 72

R9 = 0 R10 = 31

Color Quality Scale:  $Q_a=72.9$ ,  $Q_f=71.0$ ,  $Q_p=78.0$ ,  $Q_g=92.1$

Q1 = 85 Q2 = 92

Q9 = 86 Q10 = 71

Q11 = 65 Q12 = 68

Q13 = 72 Q14 = 66

Q15 = 75

$u'(u')=0.1989$   $v'=0.3085$   $v''=0.4628$

Color Ratio:  $R=0.124$   $G=0.839$   $B=0.038$

Half Bandwidth: 24.2nm

Color Purity: 0.092

R5 = 78 R6 = 63

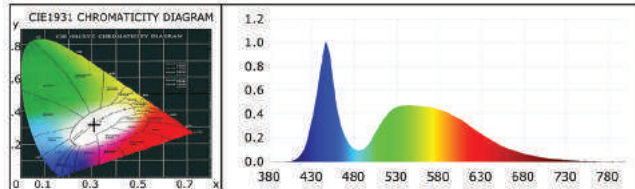
R7 = 79 R8 = 73

R13 = 73 R14 = 80

R15 = 75

Q6 = 77 Q7 = 83

Q8 = 91



#### Photometric Parameters

Luminous Flux: 3073.60 lm

Efficiency: 77.17 lm/W

Radiant Power: 9.796 W

#### Electric Parameters

Voltage: 126.80V

Power Factor: 0.9690

Current: 0.3240A

Frequency: 59.97Hz

Power: 39.83W

#### Test Information

Scan Range: 380~800:1nm

Stabilization Time: 0 ms

Max of Signal: 49827 (4379)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 175.66 ms

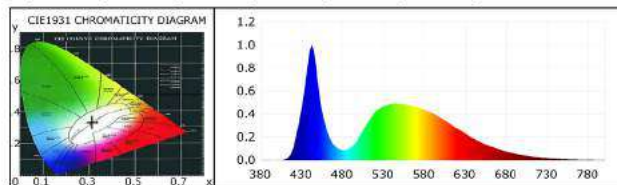
|                                                                                   |             |                     |                    |
|-----------------------------------------------------------------------------------|-------------|---------------------|--------------------|
|  |             |                     |                    |
| <b>Marca:</b>                                                                     | TECNOLED    | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>                                                                    | ML-WL-LT    | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>                                                               | 6500K       | <b>Medidas:</b>     | 1235*130*45 mm     |
| <b>Rango de Voltaje:</b>                                                          | 85 - 265 V~ | <b>LED:</b>         |                    |

#### Product Information

Product Type: ML-WL-LT  
Product Number: W4602341752

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3140$   $y=0.3335$   $u'(u')=0.1971$   $v=0.3139$   $v'=0.4709$   
 CCT:  $T_c=6404K$  ( $duv=0.00482$ ) Color Ratio:  $R=0.120$   $G=0.848$   $B=0.033$   
 Peak Wavelength: 442.2nm Half Bandwidth: 21.8nm  
 Dominant Wavelength: 491.8nm Color Purity: 0.065  
 CRI: Ra: Ra= 69.7  
 R1 =72 R2 =68 R3 =64 R4 =75 R5 =74 R6 =60 R7 =75 R8 =68  
 R9 =0 R10=23 R11=79 R12=40 R13=68 R14=79 R15=68  
 Color Quality Scale:  $Q_a=72.8$ ,  $Q_f=71.1$ ,  $Q_p=77.6$ ,  $Q_g=90.9$   
 Q1 =62 Q2 =92 Q3 =66 Q4 =62 Q5 =72 Q6 =75 Q7 =80 Q8 =89  
 Q9 =87 Q10=70 Q11=66 Q12=68 Q13=72 Q14=63 Q15=72



#### Photometric Parameters

Luminous Flux: 3168.62 lm Efficiency: 70.34 lm/W Radiant Power: 9.912 W

#### Electric Parameters

Voltage: 126.80V Current: 0.5000A Power: 45.05W  
 Power Factor: 0.7100 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800.1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 43958 (4338)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 181.36 ms

Av. Dr. R. Michel #850 Col. San Carlos, C.p. 44460, Guadaluajara, Jalisco, México.



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| <b>Marca:</b>            | DLM         | <b>Certificado:</b> |                    |
| <b>Modelo:</b>           | DL-TU9W-TR  | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 606*26 mm          |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio           |

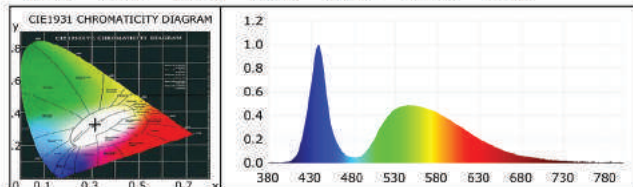
#### Product Information

Product Type: DLM

Product Number: DL-TU9W-TR

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3145$   $y=0.3321$   $u'(u')=0.1979$   $v=0.3135$   $v'=0.4702$   
 CCT:  $T_c=6388K$  ( $duv=0.00385$ ) Color Ratio:  $R=0.115$   $G=0.860$   $B=0.026$   
 Peak Wavelength: 438.8nm Half Bandwidth: 22.9nm  
 Dominant Wavelength: 490.9nm Color Purity: 0.064  
 CRI: Ra: Ra= 63.7  
 R1 =68 R2 =62 R3 =56 R4 =69 R5 =70 R6 =53 R7 =69 R8 =63  
 R9 =0 R10=9 R11=74 R12=33 R13=62 R14=75 R15=62  
 Color Quality Scale:  $Q_a=68.0$ ,  $Q_f=65.5$ ,  $Q_p=74.7$ ,  $Q_g=89.6$   
 Q1 =80 Q2 =89 Q3 =61 Q4 =57 Q5 =68 Q6 =71 Q7 =75 Q8 =88  
 Q9 =83 Q10=64 Q11=58 Q12=62 Q13=67 Q14=58 Q15=68



#### Photometric Parameters

Luminous Flux: 898.57 lm Efficiency: 90.31 lm/W Radiant Power: 2.810 W

#### Electric Parameters

Voltage: 127.30V Current: 0.0800A Power: 9.95W  
 Power Factor: 0.9810 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800.1nm  
 Stabilization Time: 0 ms  
 Max of Signal: 41934 (4433)

Photometric Method: sphere-spectroradiometer  
 Photometric Condition: Sphere diameter: 1.50m, 4PI  
 CCD Integration Time: 513.95 ms



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|                          |             |                     |                    |
|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | DLM         | <b>Certificado:</b> |                    |
| <b>Modelo:</b>           | DL-TU18W-TR | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 1215*26mm          |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Aluminio           |

#### Product Information

Product Type: DLM

Product Number: DL-TU18W-TR

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3149$   $y=0.3337$

CCT:  $T_c=6358K$  ( $duv=0.00453$ )

Peak Wavelength: 439.0nm

Dominant Wavelength: 502.2nm

CRI: Ra = 63.4

R1 = 67 R2 = 62 R3 = 57 R4 = 69

R9 = 0 R10 = 9 R11 = 73 R12 = 33

Color Quality Scale: Qa = 67.7, Qf = 65.3, Qp = 74.1, Qg = 89.0

Q1 = 80 Q2 = 89 Q3 = 61 Q4 = 56

Q5 = 68 Q6 = 70 Q7 = 75 Q8 = 87

Q9 = 83 Q10 = 64 Q11 = 58 Q12 = 61

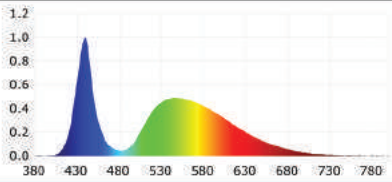
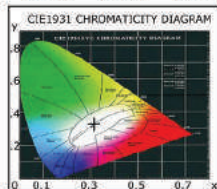
Q13 = 67 Q14 = 56 Q15 = 67

$u(u')=0.1976$   $v=0.3141$   $v'=0.4712$

Color Ratio: R=0.114 G=0.861 B=0.025

Half Bandwidth: 22.0nm

Color Purity: 0.062



#### Photometric Parameters

Luminous Flux: 1574.39 lm

Efficiency: 89.00 lm/W

Radiant Power: 4.829 W

#### Electric Parameters

Voltage: 126.80V

Power Factor: 0.9680

Current: 0.1440A

Frequency: 60.00Hz

Power: 17.69W

#### Test Information

Scan Range: 360~800.1nm

Stabilization Time: 0 ms

Max of Signal: 49713 (4286)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 344.64 ms



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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | DLM         | <b>Certificado:</b> |                    |
| <b>Modelo:</b>           | ML-TU-CR1   | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 1215*26 mm         |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>Material:</b>    | Cristal            |

#### Product Information

Product Type: TECNOLED

Product Number: ML-TU-CR1

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3226$   $y=0.3449$

CCT:  $T_c=5936K$  ( $duv=0.00640$ )

Peak Wavelength: 444.8nm

Dominant Wavelength: 506.6nm

CRI: Ra = 73.3

R1 = 73 R2 = 73 R3 = 71 R4 = 80

R9 = 0 R10 = 34 R11 = 81 R12 = 43

Color Quality Scale: Qa = 75.0, Qf = 74.4, Qp = 77.2, Qg = 89.9

Q1 = 82 Q2 = 94 Q3 = 70 Q4 = 65

Q5 = 74 Q6 = 77 Q7 = 82 Q8 = 89

Q9 = 91 Q10 = 76 Q11 = 71 Q12 = 72

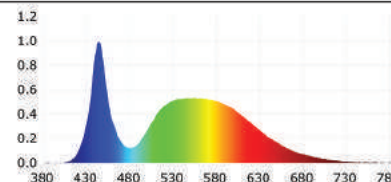
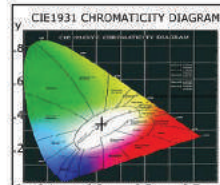
Q13 = 74 Q14 = 63 Q15 = 71

$u(u')=0.1987$   $v=0.3187$   $v'=0.4780$

Color Ratio: R=0.126 G=0.838 B=0.036

Half Bandwidth: 21.4nm

Color Purity: 0.033



#### Photometric Parameters

Luminous Flux: 1837.18 lm

Efficiency: 103.27 lm/W

Radiant Power: 5.546 W

#### Electric Parameters

Voltage: 127.00V

Power Factor: 0.6750

Current: 0.2070A

Frequency: 60.00Hz

Power: 17.79W

#### Test Information

Scan Range: 360~800.1nm

Stabilization Time: 0 ms

Max of Signal: 44816 (3743)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4PI

CCD Integration Time: 305.15 ms



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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | DLM         | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | RSL1-30W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 224*185*110 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         | SMD 5730           |

#### Product Information

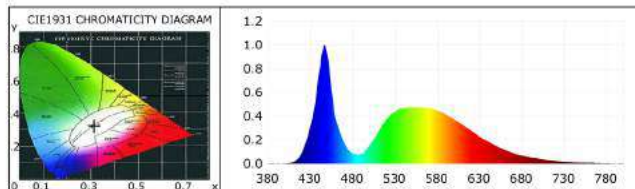
Product Type: TECNOLED  
Product Number: RSL1-30W-BB

Product Spec: DLM

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3155$   $y=0.3258$   
CCT:  $T_c=6376K$  ( $duv=0.00012$ )  
Peak Wavelength: 445.8nm  
Dominant Wavelength: 486.1nm  
CRI: Ra = 71.1

R1 = 74 R2 = 70 R3 = 64 R4 = 78 R5 = 75 R6 = 60 R7 = 78 R8 = 70  
R9 = 0 R10 = 26 R11 = 79 R12 = 36 R13 = 70 R14 = 79 R15 = 72  
Color Quality Scale: Qa = 70.2, Qf = 68.4, Qp = 75.3, Qg = 90.8  
Q1 = 83 Q2 = 92 Q3 = 62 Q4 = 53 Q5 = 67 Q6 = 73 Q7 = 80 Q8 = 89  
Q9 = 85 Q10 = 69 Q11 = 62 Q12 = 65 Q13 = 69 Q14 = 63 Q15 = 72



#### Photometric Parameters

Luminous Flux: 3129.33 lm Efficiency: 99.19 lm/W Radiant Power: 9.812 W

#### Electric Parameters

Voltage: 127.30V Current: 0.3470A Power: 31.55W  
Power Factor: 0.7140 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 49515 (4036)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 169.68 ms



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|--------------------------|-------------|---------------------|--------------------|
| <b>Marca:</b>            | DLM         | <b>Certificado:</b> | NOM ANCE           |
| <b>Modelo:</b>           | RSL1-50W-BB | <b>Garantía:</b>    | 2 AÑOS DE GARANTÍA |
| <b>Temperatura:</b>      | 6500K       | <b>Medidas:</b>     | 283*233*117 mm     |
| <b>Rango de Voltaje:</b> | 85 - 265 V~ | <b>LED:</b>         | SMD 5730           |

#### Product Information

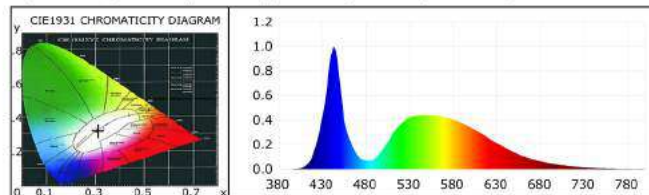
Product Type: TECNOLED  
Product Number: RSL1-50W-BB

Product Spec: DLM

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3115$   $y=0.3210$   
CCT:  $T_c=6638K$  ( $duv=-0.00034$ )  
Peak Wavelength: 442.8nm  
Dominant Wavelength: 484.1nm  
CRI: Ra = 70.5

R1 = 75 R2 = 69 R3 = 61 R4 = 76 R5 = 76 R6 = 60 R7 = 75 R8 = 71  
R9 = 0 R10 = 24 R11 = 81 R12 = 40 R13 = 70 R14 = 78 R15 = 72  
Color Quality Scale: Qa = 71.6, Qf = 69.1, Qp = 78.0, Qg = 92.6  
Q1 = 84 Q2 = 90 Q3 = 63 Q4 = 58 Q5 = 71 Q6 = 76 Q7 = 81 Q8 = 91  
Q9 = 84 Q10 = 68 Q11 = 62 Q12 = 65 Q13 = 71 Q14 = 65 Q15 = 74



#### Photometric Parameters

Luminous Flux: 4957.34 lm Efficiency: 107.84 lm/W Radiant Power: 15.850 W

#### Electric Parameters

Voltage: 126.90V Current: 0.3670A Power: 45.97W  
Power Factor: 0.9860 Frequency: 60.00Hz

#### Test Information

Scan Range: 380~800:1nm  
Stabilization Time: 0 ms  
Max of Signal: 44341 (3957)

Photometric Method: sphere-spectroradiometer  
Photometric Condition: Sphere diameter: 1.50m, 4PI  
CCD Integration Time: 90.67 ms

# CERTIFICADOS



**RoHS**



Todos los productos TECNOLED cuentan con las certificaciones de la Norma Oficial Mexicana correspondiente a cada producto.

NOM-003-SCFI-2014: Productos Eléctricos - Especificaciones de Seguridad.

NOM-001-SCFI-1993: Aparatos electrónicos de uso doméstico alimentados por diferentes fuentes de energía eléctrica - Requisitos de seguridad y métodos de prueba.

NOM-030-ENER-2016: Eficacia luminosa de lámparas de diodos emisores de luz integrados para iluminación general. Límites y métodos de prueba.

NOM-031-ENER-2012: Eficiencia energética para luminarios LED destinado a vialidades y áreas exteriores.

Mismos certificados están a disposición de nuestros clientes en caso de requerirlos. Así mismo nuestros productos cuentan con las certificaciones CE y Rohs las cuales son de estándares internacionales.

Aunque no es requerido en el mercado nacional, tenemos la capacidad de ofrecer las certificaciones UL y ETL para proyectos específicos.

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