

LEDway® Multi

Cree Ledway® LED Street Light Multi - Mounting M

Product Description

Luminaire housing is all aluminum construction. All components are mercury free and recyclable. Sharp profile for low wind exposure. Toolless entry. Mechanically solid and with an extremely strong build, this fixture is the ideal solution for industrial applications. The various different mounting systems available make this fixture extremely versatile and ideal for ceiling, busway and wall mounting installations.

Applications: Industrial installation, car-park, pedestrian crossing and perimeter area lighting.

Performance Summary

Patented NanoOptic® Product Technology

CRI: Minimum 70 CRI

CCT: 5700K (+ / - 500K) Standard, 4000K (+ / - 300K)

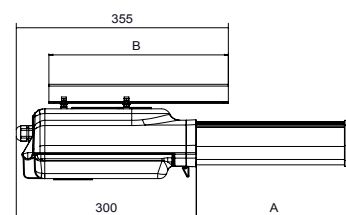
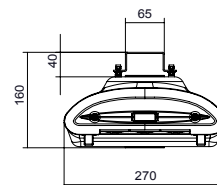
Limited Warranty†:

Class 1 - 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

Class 2 - 5 years on luminaire/10 years on Colorfast DeltaGuard® finish

Accessories

| Field Installed Accessories | |
|---|--|
| BRDSPK30 Bird Spikes for Light Engine, 20-30 LEDs | PM-MLW Mounting for ceiling applications. Configured for busway mounting (M6 bolts) 20-60 LEDs |
| BRDSPK60 Bird Spikes for Light Engine, 40-60 LEDs | PM-MLLW Mounting for ceiling applications. Configured for busway mounting (M6 bolts) 80-120 LEDs |
| BRDSPK120 Bird Spikes for Light Engine, 80-120 LEDs | |



| LED Count | Dimension "A" | Dimension "B" | Weight |
|-----------|---------------|---------------|---------|
| 20 | 156mm | 300mm | 7,52kg |
| 30 | 156mm | 300mm | 7,92kg |
| 40 | 270mm | 300mm | 9,22kg |
| 50 | 270mm | 300mm | 10,42kg |
| 60 | 270mm | 300mm | 10,52kg |
| 80 | 552mm | 600mm | 14,72kg |
| 90 | 552mm | 600mm | 14,82kg |
| 100 | 552mm | 600mm | 14,92kg |
| 110 | 552mm | 600mm | 15,02kg |
| 120 | 552mm | 600mm | 15,12kg |

| Ordering Information | | | | | | | | | |
|------------------------|------------------|-------|------------------|---|-----------------|---------|---------|--|-------------------|
| Example: LXDACM02E43SV | | | | | | | | | |
| L | X | D | AC | M | 02 | E | G | | SV |
| Product | Insulation Class | Model | Optic | Mounting | LED Count (x10) | Version | Options | | Color Options |
| L | X | D | AC | M | 02 | E | No code | 5700K | SV |
| LEDway | Class 1 | Multi | Type IV Medium | Configuration for ceiling and busway mounting | 03 | | 43 | 4000K | Silver (Standard) |
| | Y | | Type III Medium | | 04 | | K# | Light Control with Occupancy Sensor | BK |
| | Class 2 | | Type II Short | | 05 | | D# | - Flux dimming control with occupancy sensor | Black |
| | | | TS | | 06 | | G# | Dimming | BZ |
| | | | Type II Medium | | 08 | | S# | - Dimmable driver 1-10V with external controller | Bronze |
| | | | TM | | 09 | | T# | Lineswitch (Bi-Level Control) | SB |
| | | | Type II Medium | | 10 | | Q# | - Two distinct power levels, High/Low | Silver Bronze |
| | | | QV | | 11 | | DL | Virtual Midnight | WH |
| | | | Type V Medium | | 12 | | | - Two levels option with virtual midnight | White |
| | | | QVS | | | | | - Available up to 100 LEDs in class 1 | |
| | | | Type V Short | | | | | - Available up to 60 LEDs in class 2 | |
| | | | 1S | | | | | Reprogrammable Virtual Midnight | |
| | | | Type I Short | | | | | - Reprogrammable 2 levels option with virtual midnight | |
| | | | FS | | | | | Field Adjustable Output | |
| | | | Petroleum Canopy | | | | | - Requires no additional wiring | |
| | | | 15* | | | | | DALI | |
| | | | 25* | | | | | - Available up to 100 LEDs in class 1 | |
| | | | 40* | | | | | - Available up to 60 LEDs in class 2 | |
| | | | 70* | | | | | | |

* Available only in Class 1

† See www.cree.com/lighting/products/warranty for warranty terms



Product Specifications

CONSTRUCTION & MATERIALS

- Housing is all aluminum construction
- Designed with 1-10V dimming capabilities. Controls by others
- Available mounting systems:
 - PM-MLW mounting for ceiling applications. Configured for busway mounting (M6 bolts) 20-60 LEDs
 - PM-MLLW mounting for ceiling applications. Configured for busway mounting (M6 bolts) 80-120 LEDs
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is Silver. Bronze, Black, White, and Silver Bronze are also available

ELECTRICAL SYSTEM

- Input Voltage:** 220 – 240Vac (capable 120-277Vac, please consult company for available configurations) 50/60Hz
- Power Factor:** > 0.9 at full load
- Total Harmonic Distortion:** < 20% at full load

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE Listed
- ENEC Listed only for class II
- Enclosure rated IP66 per IEC 60529
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2, for Class I only
- Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog as defined in ASTM Standard B 117
- RoHS Compliant

| Recommended LEDway® Series Lumen Maintenance Factors (LMF) ¹ | | | | | |
|---|-------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 5°C (41°F) | 1.04 | 0.99 | 0.97 | 0.95 | 0.93 |
| 10°C (50°F) | 1.03 | 0.98 | 0.96 | 0.94 | 0.92 |
| 15°C (59°F) | 1.02 | 0.97 | 0.95 | 0.93 | 0.91 |
| 20°C (68°F) | 1.01 | 0.96 | 0.94 | 0.92 | 0.90 |
| 25°C (77°F) | 1.00 | 0.95 | 0.93 | 0.91 | 0.89 |

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

| Electrical Data 700mA* | | | | |
|------------------------|---------------------------|--------------------|--------------|-------|
| LED count | System Watts (W) 220-240V | Total Current 230V | Nominal Flux | |
| | | | 5700K | 4000K |
| 20 | 49 | 0.22 | 4891 | 4745 |
| 30 | 70 | 0.31 | 7337 | 7118 |
| 40 | 91 | 0.40 | 9782 | 9490 |
| 50 | 112 | 0.50 | 12228 | 11863 |
| 60 | 132 | 0.58 | 14673 | 14235 |
| 80 | 183 | 0.79 | 19564 | 18980 |
| 90 | 203 | 0.86 | 22010 | 21353 |
| 100 | 224 | 1.02 | 24455 | 23725 |
| 110 | 243 | 1.12 | 26901 | 26098 |
| 120 | 264 | 1.26 | 29346 | 28470 |

* Electrical data at 25°C (77°F)

| Maximum Wind Area (lateral surface exposed to wind) | | |
|---|----------------------|----------------------|
| LED Count | Arm Mount | Pole Top Mount |
| 20 30 | 0.051 m ² | 0.061 m ² |
| 40 50 60 | 0.060 m ² | 0.070 m ² |
| 80 90 100 110 120 | 0.080 m ² | 0.090 m ² |

Control options

| Field Adjustable Output | | | |
|-------------------------|--------------------------|------------------|-------------------|
| Option code | Power System Multipliers | LED Current (mA) | Lumen Multipliers |
| Q9 (Factory Set) | 1.00 | 700 | 1 |
| Q8 | 0.93 | 650 | 0.93 |
| Q7 | 0.90 | 625 | 0.91 |
| Q6 | 0.84 | 575 | 0.84 |
| Q5 | 0.80 | 550 | 0.80 |
| Q4 | 0.76 | 525 | 0.77 |
| Q3 | 0.69 | 475 | 0.70 |
| Q2 | 0.61 | 425 | 0.62 |
| Q1 | 0.50 | 350 | 0.52 |

| Lineswitch (Bi-Level Control) | | | | | | |
|-------------------------------|----------------------------|-----------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|
| Option code | LED Current HIGH MODE (mA) | Watts Multipliers HIGH MODE | Lumen Multipliers HIGH MODE | LED Current LOW MODE (mA) | Watts Multipliers LOW MODE | Lumen Multipliers LOW MODE |
| G0 | 700 | 1.00 | 1.00 | 175 | 0.27 | 0.27 |
| GH | 525 | 0.76 | 0.77 | 175 | 0.27 | 0.27 |
| GM | 525 | 0.76 | 0.77 | 350 | 0.51 | 0.52 |
| GL | 350 | 0.51 | 0.52 | 175 | 0.27 | 0.27 |
| GN | 700 | 1.00 | 1.00 | 350 | 0.51 | 0.52 |
| GP | 700 | 1.00 | 1.00 | 525 | 0.76 | 0.77 |

| Virtual Midnight | | | | | | |
|------------------|----------------------------|-----------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|
| Option code | LED Current HIGH MODE (mA) | Watts Multipliers HIGH MODE | Lumen Multipliers HIGH MODE | LED Current LOW MODE (mA) | Watts Multipliers LOW MODE | Lumen Multipliers LOW MODE |
| S1 | 525 | 0.76 | 0.77 | 175 | 0.27 | 0.27 |
| S2 | 525 | 0.76 | 0.77 | 350 | 0.51 | 0.52 |
| S3 | 350 | 0.51 | 0.52 | 175 | 0.27 | 0.27 |
| S4 | 700 | 1.00 | 1.00 | 350 | 0.51 | 0.52 |
| S5 | 700 | 1.00 | 1.00 | 525 | 0.76 | 0.77 |
| S6 | 700 | 1.00 | 1.00 | 175 | 0.27 | 0.27 |

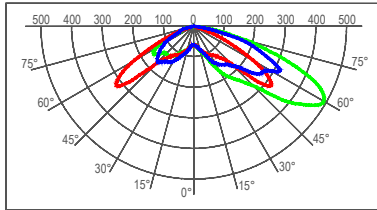
| Reprogrammable Virtual Midnight | | | | | | |
|---------------------------------|----------------------------|-----------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|
| Option code | LED Current HIGH MODE (mA) | Watts Multipliers HIGH MODE | Lumen Multipliers HIGH MODE | LED Current LOW MODE (mA) | Watts Multipliers LOW MODE | Lumen Multipliers LOW MODE |
| T1 | 525 | 0.76 | 0.77 | 175 | 0.27 | 0.27 |
| T2 | 525 | 0.76 | 0.77 | 350 | 0.51 | 0.52 |
| T3 | 350 | 0.51 | 0.52 | 175 | 0.27 | 0.27 |
| T4 | 700 | 1.00 | 1.00 | 350 | 0.51 | 0.52 |
| T5 | 700 | 1.00 | 1.00 | 525 | 0.76 | 0.77 |
| T6 | 700 | 1.00 | 1.00 | 175 | 0.27 | 0.27 |

| Light Control with Occupancy Sensor | | |
|-------------------------------------|---------|---------|
| Option code | LL (mA) | HL (mA) |
| K0 | 175 | 700 |
| KC | 175 | 525 |
| KN | 75 | 525 |
| KD | 75 | 700 |
| KL | 175 | 350 |
| KP | 75 | 350 |
| KT | 275 | 700 |

Photometry

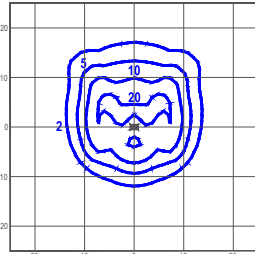
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree-europe.com>.

AC (Type IV Medium)



cd/klm
 C0 - C180 C90 - C270 C45 - C225

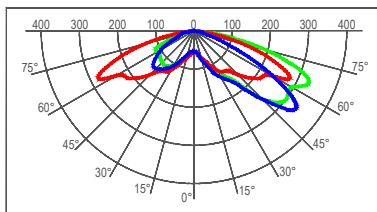
Test Report #: CESTL-2013-0028



lux
 LXDAC704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 7358

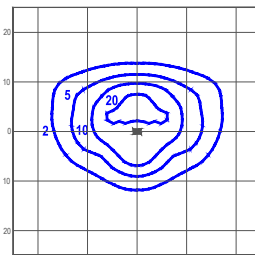
| Lumen Output- AC Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 3792 | 3679 |
| 30 | 5688 | 5518 |
| 40 | 7584 | 7358 |
| 50 | 9480 | 9197 |
| 60 | 11376 | 11036 |
| 80 | 15168 | 14715 |
| 90 | 17064 | 16555 |
| 100 | 18960 | 18394 |
| 110 | 20856 | 20233 |
| 120 | 22752 | 22073 |

PR (Type III Medium)



cd/klm
 C0 - C180 C90 - C270 C35 - C215

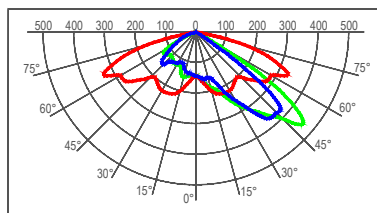
Test Report #: CESTL-2013-0068



lux
 LX DPR704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 6953

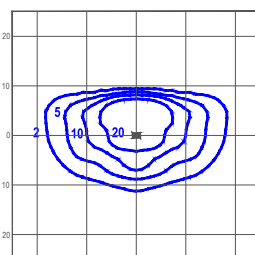
| Lumen Output- PR Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 3584 | 3477 |
| 30 | 5375 | 5215 |
| 40 | 7167 | 6953 |
| 50 | 8959 | 8692 |
| 60 | 10751 | 10430 |
| 80 | 14335 | 13907 |
| 90 | 16126 | 15645 |
| 100 | 17918 | 17383 |
| 110 | 19710 | 19122 |
| 120 | 21502 | 20860 |

TS (Type II Short)



cd/klm
 C0 - C180 C90 - C270 C55 - C235

Test Report #: CESTL-2013-0072



lux
 LX DTS704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 8058

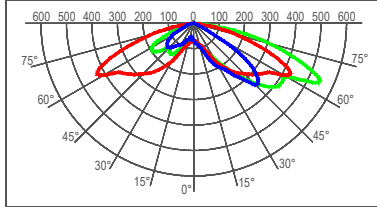
| Lumen Output- TS Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4153 | 4029 |
| 30 | 6229 | 6043 |
| 40 | 8306 | 8058 |
| 50 | 10382 | 10072 |
| 60 | 12459 | 12087 |
| 80 | 16612 | 16116 |
| 90 | 18688 | 18130 |
| 100 | 20765 | 20145 |
| 110 | 22841 | 22159 |
| 120 | 24918 | 24174 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

Photometry

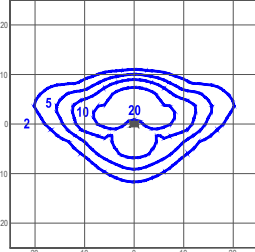
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree-europe.com>.

TM (Type II Medium)



cd/klm
 — C0 - C180 — C90 - C270 — C15 - C195

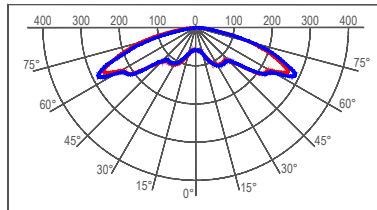
Test Report #: CESTL-2013-0025



LXDTM704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 7137

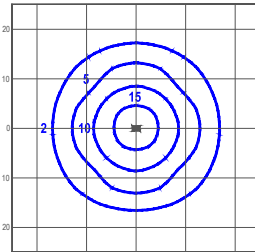
| Lumen Output- TM Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 3679 | 3569 |
| 30 | 5518 | 5353 |
| 40 | 7357 | 7137 |
| 50 | 9196 | 8922 |
| 60 | 11036 | 10706 |
| 80 | 14714 | 14275 |
| 90 | 16553 | 16059 |
| 100 | 18393 | 17844 |
| 110 | 20232 | 19628 |
| 120 | 22071 | 21412 |

QV (Type V Medium)



cd/klm
 — C0 - C180 — C90 - C270

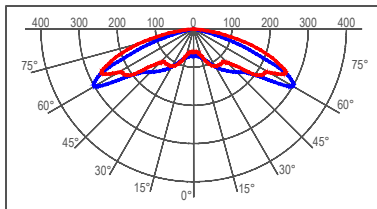
Test Report #: CESTL-2013-0019



LXDQV704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 7755

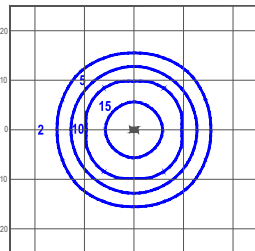
| Lumen Output- QV Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 3997 | 3878 |
| 30 | 5995 | 5816 |
| 40 | 7994 | 7755 |
| 50 | 9992 | 9694 |
| 60 | 11991 | 11633 |
| 80 | 15988 | 15510 |
| 90 | 17986 | 17449 |
| 100 | 19985 | 19388 |
| 110 | 21983 | 21327 |
| 120 | 23982 | 23266 |

QVS (Type V Short)



cd/klm
 — C0 - C180 — C90 - C270

Test Report #: 68092



LXDQVS704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 9083

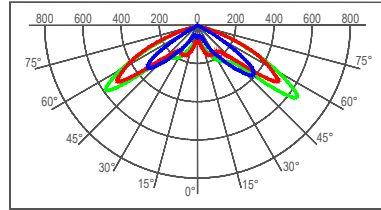
| Lumen Output- QVS Distribution | | |
|--------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4681 | 4542 |
| 30 | 7022 | 6813 |
| 40 | 9363 | 9083 |
| 50 | 11704 | 11354 |
| 60 | 14044 | 13625 |
| 80 | 18726 | 18167 |
| 90 | 21067 | 20438 |
| 100 | 23407 | 22709 |
| 110 | 25748 | 24979 |
| 120 | 28089 | 27250 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

Photometry

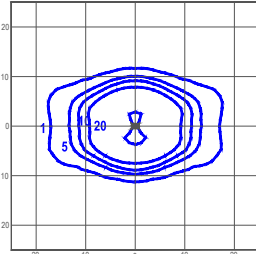
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1S (Type I Short)



cd/klm
 C0 - C180 C90 - C270 C25 - C205

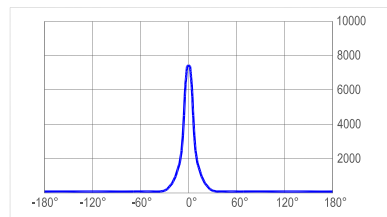
Test Report #: CESTL-2013-0070



lux
 LXD1S704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 8822

| Lumen Output- 1S Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4547 | 4411 |
| 30 | 6820 | 6616 |
| 40 | 9093 | 8822 |
| 50 | 11366 | 11027 |
| 60 | 13640 | 13232 |
| 80 | 18186 | 17643 |
| 90 | 20459 | 19849 |
| 100 | 22733 | 22054 |
| 110 | 25006 | 24259 |
| 120 | 27279 | 26465 |

15

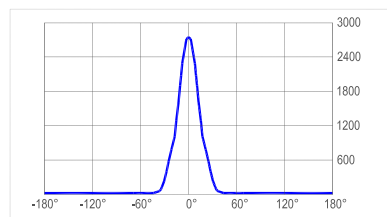


cd/klm
 C0 - C180 C90 - C270

Test Report #: ITL 78519-38859

| Lumen Output- 15 Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4873 | 4728 |
| 30 | 7310 | 7092 |
| 40 | 9747 | 9456 |
| 50 | 12183 | 11820 |
| 60 | 14620 | 14183 |
| 80 | 19493 | 18911 |
| 90 | 21930 | 21275 |
| 100 | 24366 | 23639 |
| 110 | 26803 | 26003 |
| 120 | 29240 | 28367 |

25



cd/klm
 C0 - C180 C90 - C270

Test Report #: ITL 78520-38828

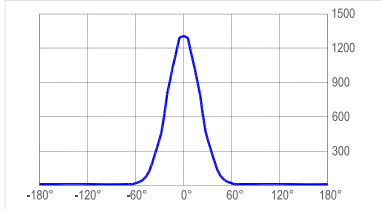
| Lumen Output- 25 Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4869 | 4724 |
| 30 | 7304 | 7086 |
| 40 | 9739 | 9448 |
| 50 | 12174 | 11810 |
| 60 | 14608 | 14172 |
| 80 | 19478 | 18896 |
| 90 | 21913 | 21259 |
| 100 | 24347 | 23621 |
| 110 | 26782 | 25983 |
| 120 | 29217 | 28345 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

Photometry

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40

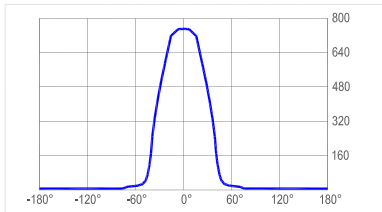


cd/klm
 — C0 - C180 — C90 - C270

Test Report #: ITL 78521-36476

| Lumen Output- 40 Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4574 | 4438 |
| 30 | 6862 | 6657 |
| 40 | 9149 | 8876 |
| 50 | 11436 | 11095 |
| 60 | 13723 | 13314 |
| 80 | 18298 | 17752 |
| 90 | 20585 | 19971 |
| 100 | 22872 | 22190 |
| 110 | 25159 | 24408 |
| 120 | 27447 | 26627 |

70



cd/klm
 — C0 - C180 — C90 - C270

Test Report #: ITL 78522-33030

| Lumen Output- 70 Distribution | | |
|-------------------------------|---------------------------|-------|
| LED Count | Initial Delivered Lumens* | |
| | 700mA | |
| | 5700K | 4000K |
| 20 | 4142 | 4019 |
| 30 | 6213 | 6028 |
| 40 | 8285 | 8037 |
| 50 | 10356 | 10047 |
| 60 | 12427 | 12056 |
| 80 | 16569 | 16075 |
| 90 | 18640 | 18084 |
| 100 | 20711 | 20093 |
| 110 | 22783 | 22102 |
| 120 | 24854 | 24112 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.