

LiteFrame[®] LED

LiteFrame 6" LED downlight

LiteFrame® LED

Introducing a 6" remote phosphor commercial grade LED downlight

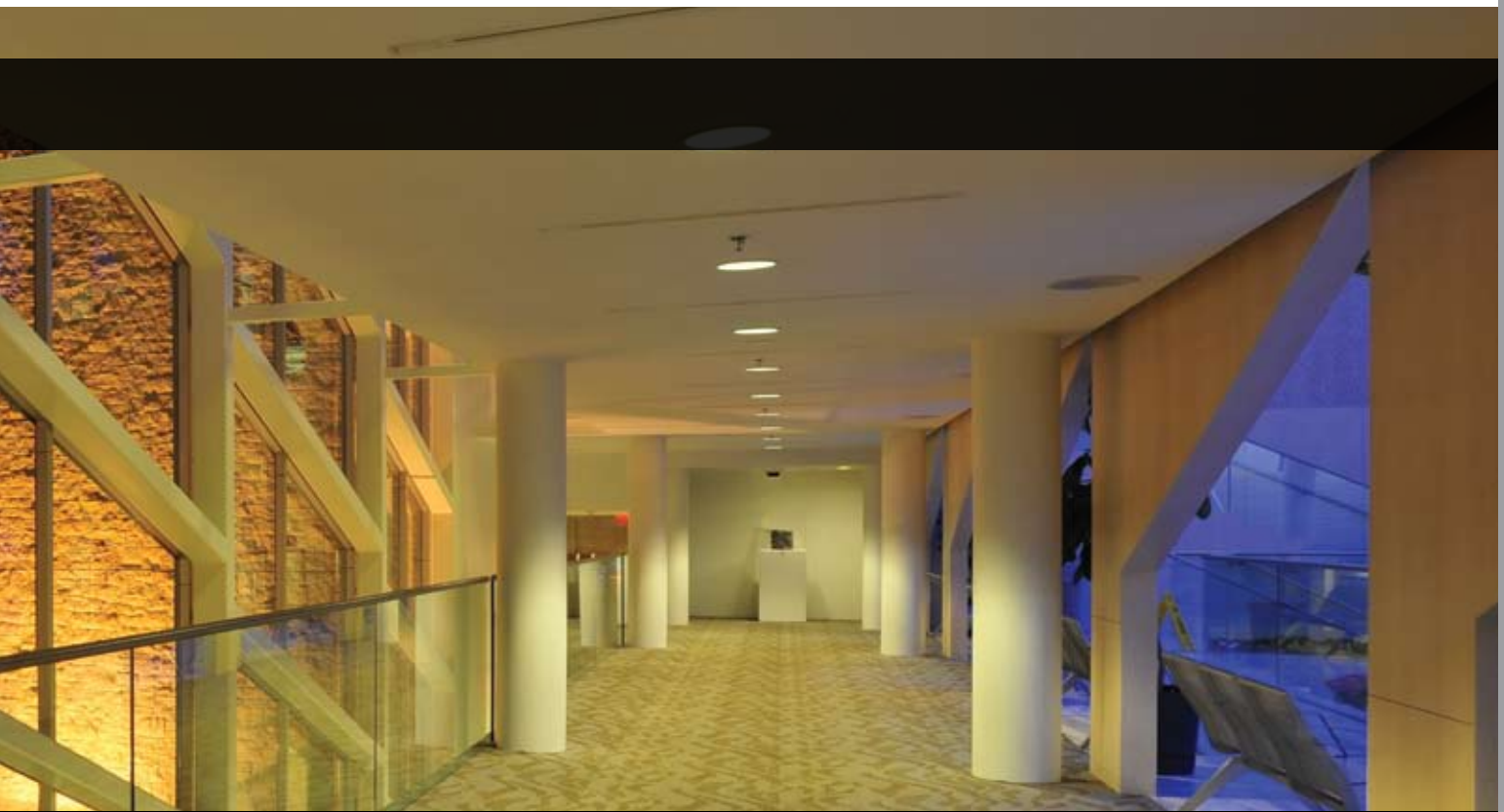


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Designed for optimal life and lumen maintenance, Prescolite has added the LF6LED, a 6" commercial grade LED downlight with remote phosphor technology, to its LiteFrame line.

With a minimum 50,000-hour life at 70% lumen maintenance, this new downlight achieves an output of 900 lumens and delivers more than 50 lumens per watt (fixture efficacy).

Compared to traditional triple tube CFLs, the LF6LED offers the same performance, while reducing lighting power density, maintenance costs and energy consumption.



BETTER UNIFORMITY AND COLOR CONSISTENCY, INCREASED EFFICIENCY

Better Uniformity

Remote phosphor lens provides a more uniform emitting surface with no visible LEDs. Comfortable light and similar distribution appearance to CFL sources.

Color Consistency

Designed to produce quality white light with virtually no shift in Kelvin over the life of the product. Optimizes color consistency from fixture to fixture.

Increased Efficiency

LED modules feature an integral highly reflective mixing chamber. Utilizes light that would have been lost and redirects it out to the luminaire.

LiteFrame® LED



BENEFITS

Available in three different color temperatures, 3000K, 3500K and 4000K, the LF6LED also features the following benefits:

- Dimming comes standard with 0-10V dimming capability. Instant 100% light, flicker-free dimming down to 10%.
- Contains no mercury
- 80 CRI
- Driver is universal - 120V through 277V
- Smooth beam edge similar to CFL downlights
- Spacing criterion of 1.2 for general lighting applications
- Superior brightness control above the 45 degree viewing angle
- CSA certified to US and Canadian safety standards. Suitable for wet locations.
- Five year warranty

Additionally, if critical temperatures are reached on the driver or LED module, an integrated thermal feedback loop will gradually reduce current to protect its system life.

INSIDE THE LED MODULE

Remote phosphor LED technology

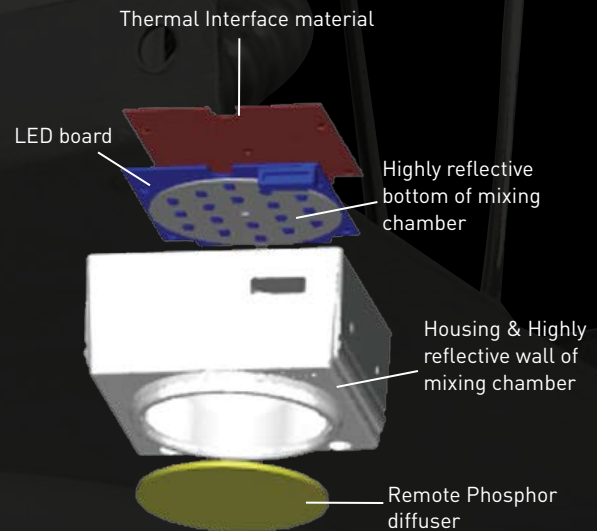
REMOTE PHOSPHOR

Offering high-quality white light with high efficiencies, Philips Fortimo LED DLM module uses a plain PCB with Royal Blue LEDs and a remote phosphor film layer. The distance from the LED source to the phosphor film, lowers the heat exposure on the phosphor. This ensures the absence of color shift over time.

Offering consistency between fixtures – and consistent color over time – the refraction of the lens provides perfect uniformity. Custom optic features also include:

- CFL-like distribution and beam edge
- Superior brightness control
- Increased efficiency and wide spacing benefits

Additionally, the mixing chamber has higher efficacy due to larger portion of lumens exiting the diode and aids in color distribution and uniformity.



PHILIPS

PHILIPS FORTIMO – REMOTE PHOSPHOR TECHNOLOGY

LED modules use high brightness royal blue LEDs
White light achieved when illuminating remote lens
with phosphor film layer

Remote location of lens exposes phosphor to less
heat, increasing life and color quality

Offers increased efficiency and better uniformity
and color consistency

Less susceptible to heat degradation than
traditional LEDs with integral phosphor coating

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INSTALLATION

The LF6LED housing comes with a pre-wired J-box and snap-on cover for easy access. The snap-in connection from the driver compartment allows easy installation of light engine/trim assembly without tools above or below the ceiling.

To install light engine, follow the 3 easy steps either above or below the ceiling:

3 STEP PROCESS:



Place Connector Into LED Module, Snap Cover On



Put Torsion Springs Into Brackets

Push Into Ceiling

*See www.prescolite.com for wall wash installation instructions.

DIMMING

- Standard with 0-10V dimming capability
- Instant 100% light, flicker-free dimming down to 10%
- Dimming preset level is maintained when power is cycled
- Can increase efficiency up to 30% (at lower dimming levels, it becomes more efficient)
- No audible noise during dimming
- No visual interference with other lighting or video sources

COMPATIBILITY TABLE

Control Manufacturer	Wallbox Dimmer	Power Booster Available
Douglas Lighting Controls	WPC 5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V) Tap Glide Heatsink TGH1500fam120 (120V) Oasis DA2000FAMU (120/277V)	
Honeywell, Inc.	EL731A1019 and EL7315A1009	EL7305A1010
HUNT Dimming	Preset Slide: PS-010-IV-120V and PS-010-WH-120V Preset Slide: PS-010-3W-IV-120V and PS-010-3W-WH-120V Preset Slide: PS-010-IV-277V and PS-010-WH-277V Preset Slide: PS-010-3W-IV-277V and PS-010-3W-WH-277V Preset Slide, controls FD-010: PS-1FC-010-IV- and PS-IFC-010-32-WH-120/277V Preset Slide, controls FD-010: PS-IFC-010-32-IV- and PS-IFC-010-3W-WH-120/277V Remoted mounted unit: FD-010120V and FD-010-277V	
Lehigh Electric Products Co.	Solitaire	PBX
Leviton Lighting Controls Div.	Leviton Centura Fluorescent Control System IllumaTech™ IP7 Series	CN100 PE300
Lutron Electronics Co., Inc.	Visit www.lutron.com/advance for the latest control information and selection	
PDM Electrical products	WPC-5721	
Starfield Controls	TR61 with DALI Interface port	RT03 DALInet Router
The Watt Stopper, Inc.	LS-4 used with LCD-101 and LCD-103	

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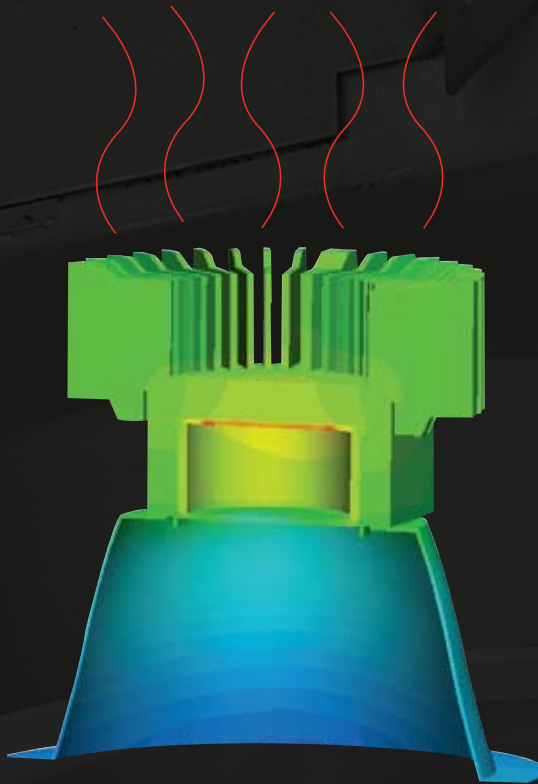
THERMAL MANAGEMENT

HIGH EFFICIENCY HEAT SINK

Designed to dissipate heat on three sides, this module level heat sink facilitates heat transfer away from the LEDs to external heat sink for natural convection.

The thermal management system keeps the module well within thermal specifications to ensure maximum lumen output and long life.

The thermal feedback loop capability of LiteFrame LED offers inherent protection for the electrical components of the driver and LED module. When ambient temperatures rise above limits (approximately 50° C) that might jeopardize the integrity of these components, the unit will dim down to levels to reduce its operating heat. This ensures the 50,000 hour life of the product at 40° C and allows for the 5 year warranty of the product.



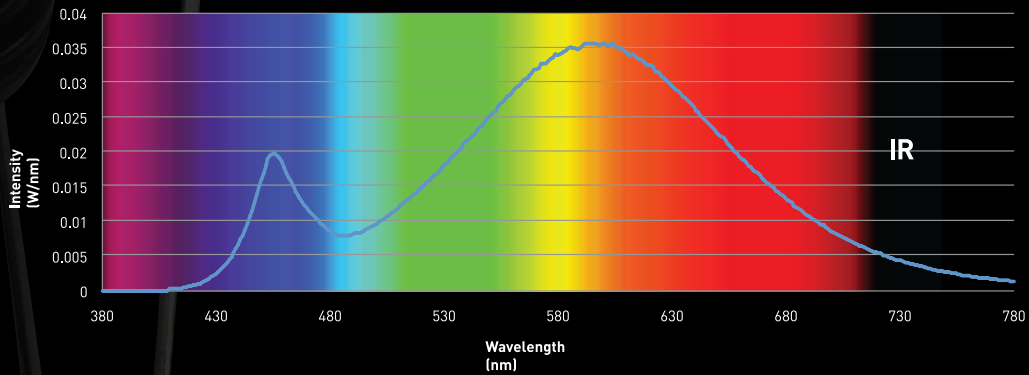
ISO VIEW

PHILIPS FORTIMO

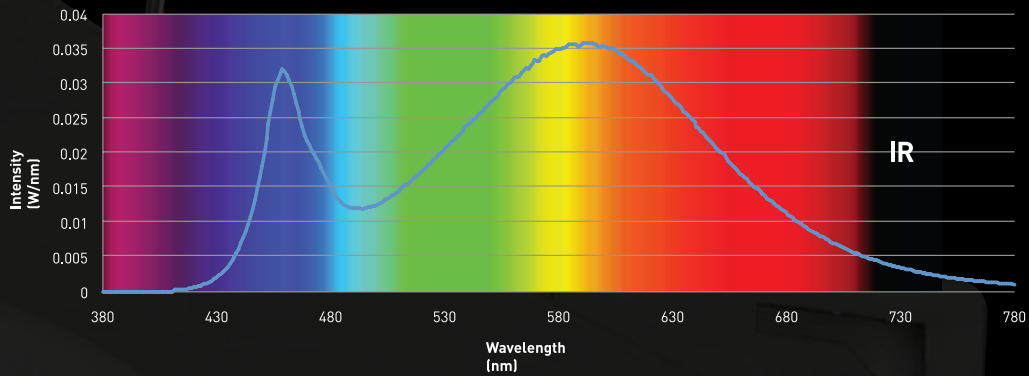
MAXIMUM COLOR SATURATION

Using the chart below, you can see the LF6LED reaches across all colors of the visible spectrum. The light output of this new LED downlight mirrors the warm white color from that of a standard incandescent bulb, which also offers an excellent, continuous spectral power distribution and no UV light.

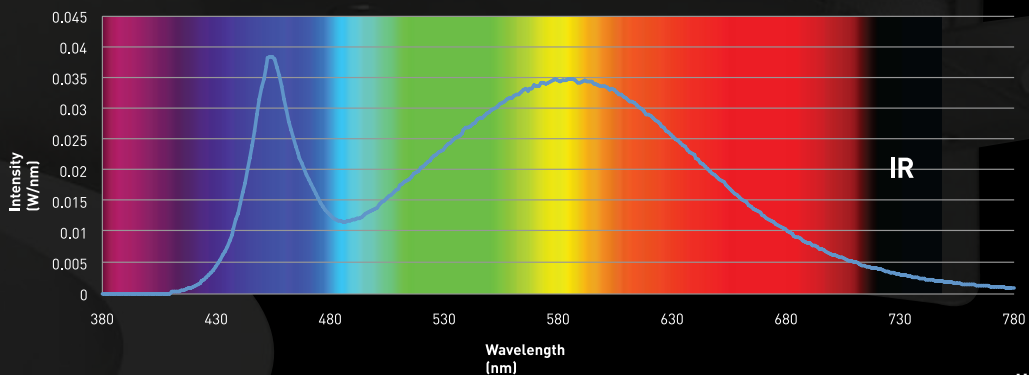
SPECTRAL POWER DISTRIBUTION FORTIMO LED DLM 3000K



SPECTRAL POWER DISTRIBUTION FORTIMO LED DLM 3500K

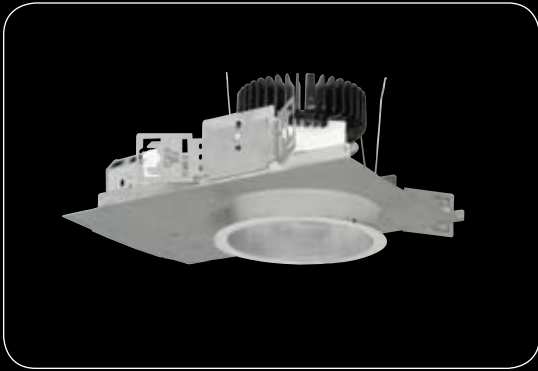


SPECTRAL POWER DISTRIBUTION FORTIMO LED DLM 4000K



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CATALOG LOGIC



LF6LED

SPECIFICATION INFORMATION

ORDERING EXAMPLE: LF6LED-6LFLED5 30K WHWT

HOUSING/LED GENERATION	OPTIONS	TRIM	COLOR TEMP.	LED REF. FINISH	REF. COLOR	REF. OPTIONS	ACCESSORIES
LF6LED 6" High Efficacy LED 120-277V Housing with 0-10V Dimming to 10%	WW² Wall Wash	6LFLED5 6" Open Reflector/ Light Engine Assembly, Nominal 900 lumen output	30K 3000 Kelvin, 80 CRI 35K 3500 Kelvin, 80 CRI 40K 4000 Kelvin, 80 CRI	Blank Alzak Semi- Diffuse	Blank CG Champagne Gold Alzak BL Black Alzak WE Wheat Alzak LW Light Wheat Alzak PW Pewter Alzak WH¹ White Paint	WT White Trim TRG Trim Ring Gasket (factory installed) WW² Wall Wash	B24 Set of two(2) 24" bar hangers for T-bar ceilings B6 Set of two (2) bar hangers for ceiling joist up to 24" centers LFSC6³ 6" reflector screw cover

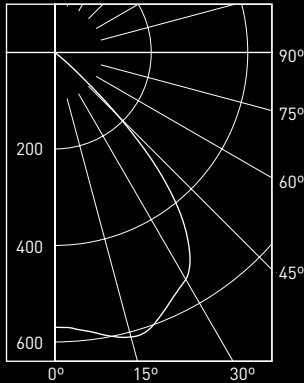
¹Requires WT option
²WW option must be selected on both
 the housing and trim
³Not compatible with WW

PHOTOMETRIC DATA

DRIVER DATA	LF6LED5 30K	LF6LED5 35K	LF6LED5 40K
Input Voltage	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.146A	0.156A	0.137A
Input Power	17.3W	18.5W	16.3W
Constant Current Output	200-700mA	200-700mA	200-700mA
Power Factor	≥0.90	≥0.90	≥0.90
THD	<20%	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A
Operating Temperature	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C
Dimming	0-10V	0-10V	0-10V

Over-voltage, over-current, short-circuit protected

LF6LED 6LFLED5 30K
 LED Light Engine: 3000K, 80 CRI
 System Wattage: 17.3W
 Fixture Delivered Lumens: 890
 Fixture Efficacy: 51
 Spacing Criteria: 1.2

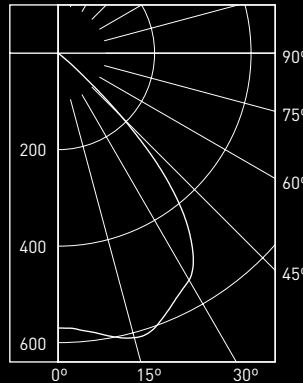


CANDELA DISTRIBUTION

DEG	CANDELA	LUMENS
0	541	
5	548	53
15	580	164
25	540	250
35	459	283
45	177	134
55	3	5
65	0	1
75	0	0
85	0	0
90	0	0

Test No. 3264
 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

LF6LED 6LFLED5 35K
 LED Light Engine: 3500K, 80 CRI
 System Wattage: 18.5W
 Fixture Delivered Lumens: 916
 Fixture Efficacy: 50
 Spacing Criteria: 1.2

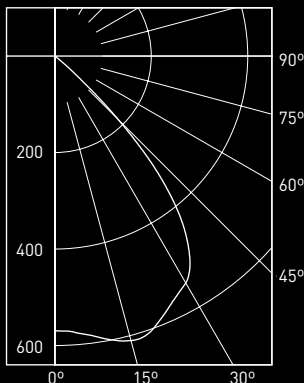


CANDELA DISTRIBUTION

DEG	CANDELA	LUMENS
0	573	
5	584	56
15	606	170
25	562	259
35	469	289
45	179	136
55	3	4
65	1	1
75	0	0
85	0	0
90	0	0

Test No. 3332
 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

LF6LED 6LFLED5 40K
 LED Light Engine: 4000K, 80 CRI
 System Wattage: 16.3W
 Fixture Delivered Lumens: 911
 Fixture Efficacy: 55
 Spacing Criteria: 1.2



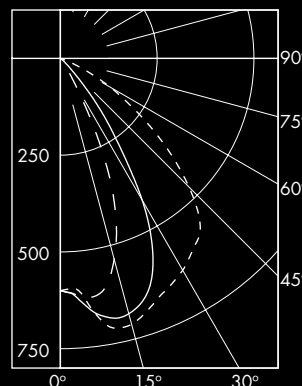
CANDELA DISTRIBUTION

DEG	CANDELA	LUMENS
0	569	
5	580	56
15	602	169
25	560	258
35	467	288
45	178	135
55	3	4
65	1	0
75	0	0
85	0	0
90	0	0

Test No. 3333
 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

LF6LEDWW 6LFLED5 35K WW
 LED Light Engine: 3500K, 80 CRI
 System Wattage: 16.3W
 Fixture Delivered Lumens: 830
 Fixture Efficacy: 46

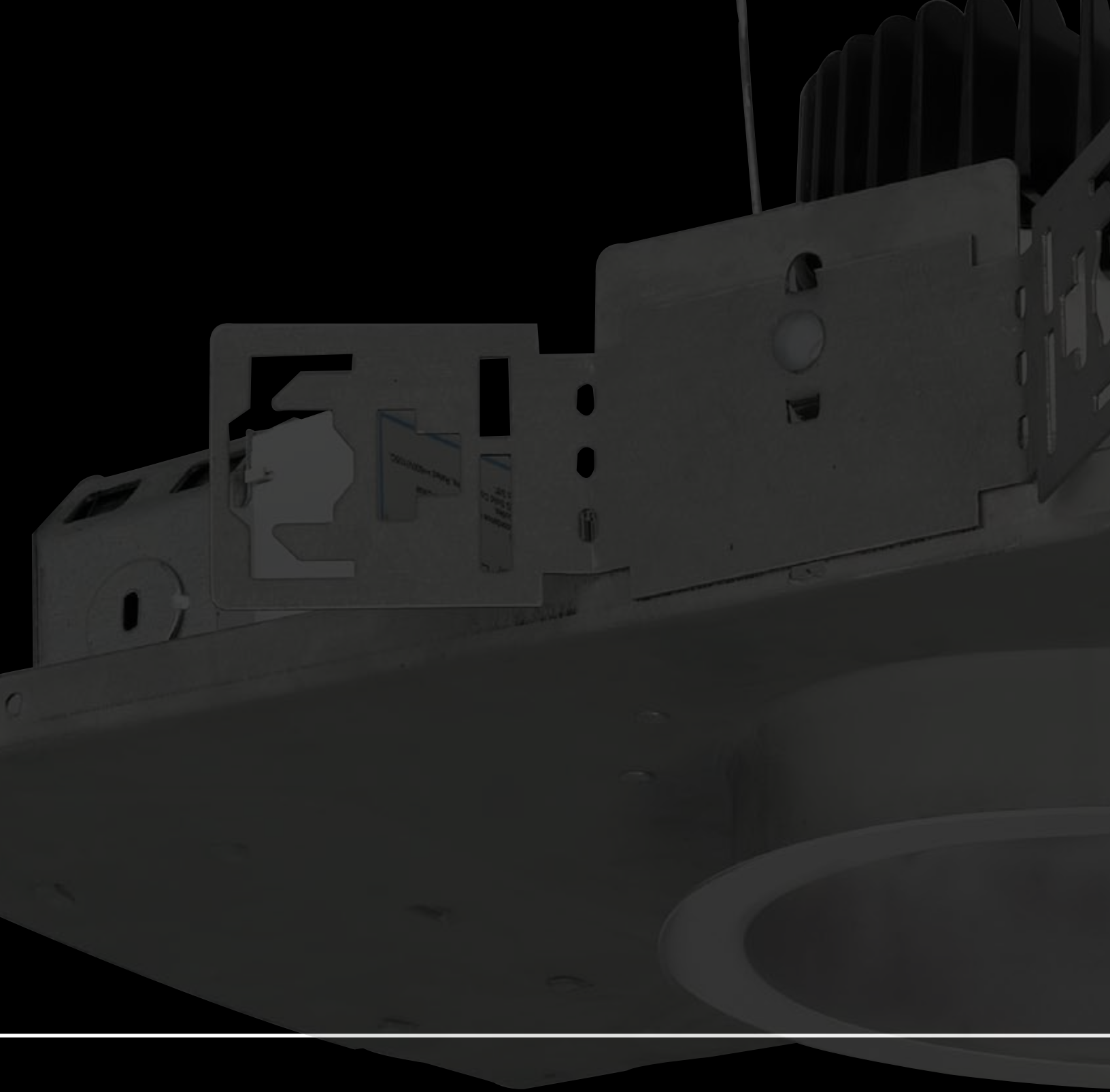
Spacing Criteria: 0-DEG- 1.5, 90-DEG- 0.9, 180-DEG- 0.8



CANDELA DISTRIBUTION

DEG	0.0	90.0	180.0
0	600	600	600
5	608	632	619
15	711	683	537
25	656	566	235
35	599	243	19
45	470	35	4
55	243	4	1
65	65	1	0
75	1	1	0
85	0	0	0
90	0	0	0

Test No. 3483
 Tested at 25°C Ambient in accordance to IESNA LM-79-2008



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PR1081 09/10

