

# ID+ 3.5" x 3.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS



Solite Trim



clear diffuse



warm diffuse



white painted



black painted



optional painted flange



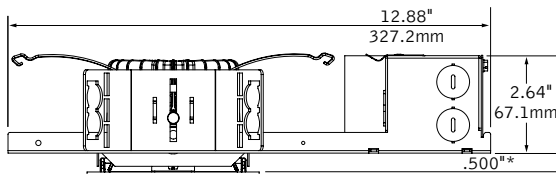
Wall Wash companion



Adjustable Accent companion

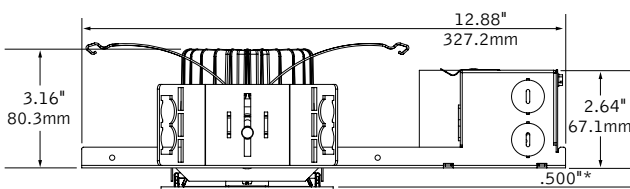
## DIMENSIONAL DATA

### Very Shallow Housing - 60° and 75° cut-off reflectors

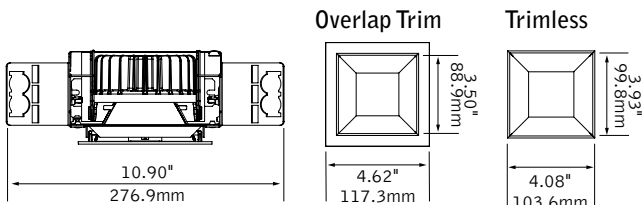


Housing height with DALI, Lutron & LZ1 drivers is 3.0"

### Shallow Housing - 50° cut-off reflector



\*Field adjustability of ceiling thickness from 0.5" - 1.5".



## FEATURES

Less than 2.64" low profile housing available.

50°, 60° and 75° cut-off reflector options available.

25° to 90° beam spreads support accent lighting, task lighting and general illumination.

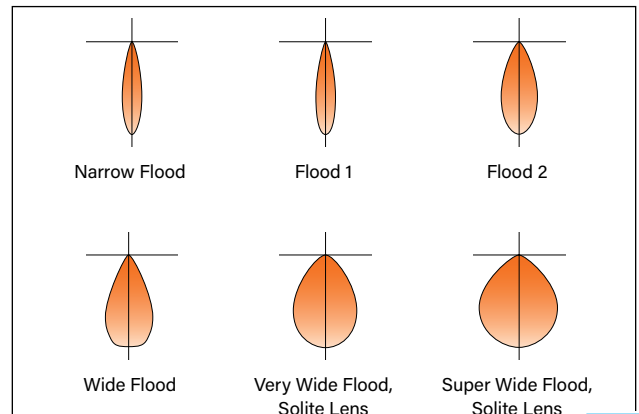
Solite lens with die-cast trim allows for a coordinated aesthetic with ID+ 3.5" Adjustable Accent and delivers 70° or 90° beam spread options.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

## DISTRIBUTIONS



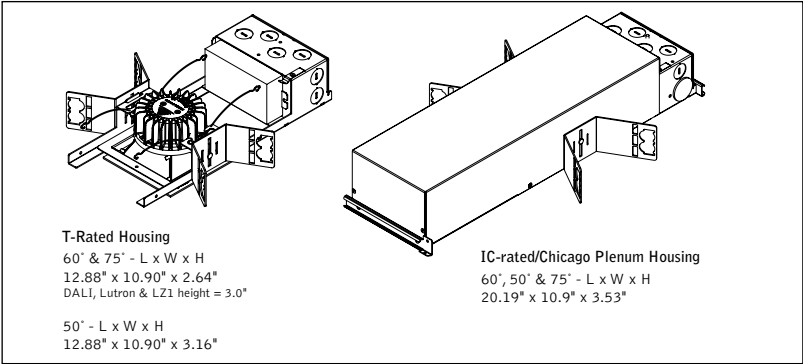
Based on Overlap Trim, Tall Cone except Solite Lens versions, Clear Diffuse. Photometric performance is measured in accordance with IESNA LM-79. Visit [focalpointlights.com](http://focalpointlights.com) for complete photometric data. Visit [energystar.gov](http://energystar.gov) for model specifics.



fixture:

project:

STANDARD WHITE HOUSING DETAILS



3.5" SQUARE DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread   Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT		Overlap	25°   0.42	34°   0.56	44°   0.70	52°   0.85	64°   0.97	-
		Trimless	24°   0.41	34°   0.56	45°   0.70	58°   0.86	66°   0.99	-
DNS		Overlap	24°   0.41	34°   0.56	45°   0.70	59°   0.86	72°   1.01	-
		Trimless	24°   0.40	34°   0.56	45°   0.70	60°   0.88	69°   1.07	-
DSS		Overlap	-	-	-	-	69°   0.99	92°   1.21
		Trimless	-	-	-	-	72°   0.99	92°   1.26

3.5" SQUARE DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

STANDARD WHITE				
CCT	Lumen Output	Delivered Lumens	System Watts	LPW
3500K, 80CRI	700L	722	8	91
	900L	937	10	93
	1100L	1130	12	96
	1300L	1355	16	84
	1500L	1539	18	86
	1700L	1751	20	86
	1900L	1925	22	87
	2100L	2159	25	87

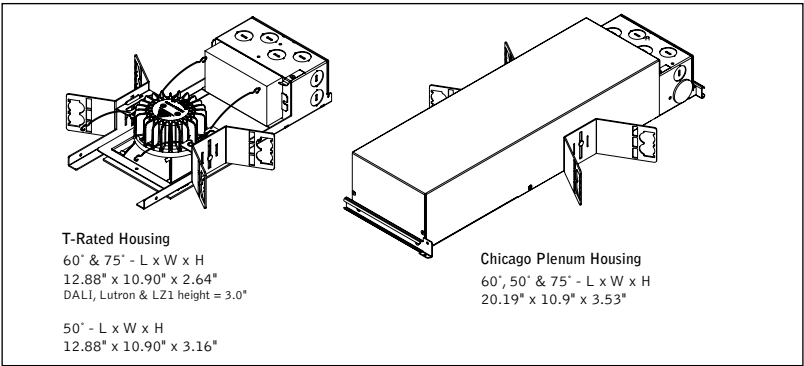
STANDARD WHITE

HOUSING ORDERING		FLC33D
Housing Series	ID+ 3.5" Square	
Trim Type		
Square Die-Cast Overlap	SDO	
Square Die-Cast Trimless	SDT	
Color Options		
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
700 Lumen (Not available with Lutron or LFP)	700L	
900 Lumen (Not available with LFP)	900L	
1100 Lumen	1100L	
1300 Lumen	1300L	
1500 Lumen	1500L	
1700 Lumen	1700L	
1900 Lumen	1900L	
2100 Lumen	2100L	
Voltage		
120/277 Volt	UNV	
(IC-rated housing: SW - 1700lm max., HC - 1500lm max. T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)		
120V	120	
277V	277	
Low Voltage	LV	
(IC-rated housing: SW - 1700lm max., HC - 1500lm max. T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)		
Control System & Dimming Level		
0-10V <1% Dimming	LZ1	
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming	LD1	
Low Voltage, PoE Compatible (No driver. Not available with EMR. LV voltage only.)	LVN	
Forward Phase (120V only)	LFP	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron Hi-Lume - Forward Phase (120V only) - 1% Dimming	LTE	
DALI <1% Dimming	DZ1	
DALI - 1% Dimming	D11	
Housing Type		
IC-Rated / Airtight (LTE 1500lm max.)	IC	
Thermally Protected, Non-IC / Airtight	T	
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	TW	
Factory Options		
Bar Hangers	BH	
Chicago Plenum	CP	
Emergency Battery - Remote test switch (Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)	EMR	
Outdoor Rated (LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 5.)	OD	
TRIM & LED MODULE		
Aperture		LC33
3.5" Square Reflector		
Trim Type		
Square Die-Cast Overlap	SDO	
Square Die-Cast Trimless	SDT	
Color Options		
(Trim & housing must match)		
Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output		
(Trim & housing output must match)		
700 Lumen	700L	
900 Lumen	900L	
1100 Lumen	1100L	
1300 Lumen	1300L	
1500 Lumen	1500L	
1700 Lumen	1700L	
1900 Lumen	1900L	
2100 Lumen	2100L	
Color Temperature		
(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.)		
2700K, 80/90/97+ CRI	_27K	
3000K, 80/90/97+ CRI	_30K	
3500K, 80/90/97+ CRI	_35K	
4000K, 80/90/97+ CRI	_40K	
Optic		
Tall Cone with 50° cut-off	DNT	
Short Cone with 60° cut-off	DNS	
Super Short Cone with Solite Lens 75° cut-off (VWFL or SWFL only)	DSS	
Distribution		
Narrow Flood	NFL	
Flood 1	FL1	
Flood 2	FL2	
Wide Flood	WFL	
Very Wide Flood	VWFL	
Super Wide Flood (DSS Optic only)	SWFL	
Finish		
Clear Diffuse	CD	
Warm Diffuse	WD	
Black	BK	
White	WH	
Optional Flange Finish		
(Overlap CD & WD finish only) (For matching finishes leave blank)		
Black Painted	BP	
White Painted	WP	
ACCESSORIES		
Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT	




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WARM DIM HOUSING DETAILS



3.5" SQUARE DOWNLIGHT OPTICS

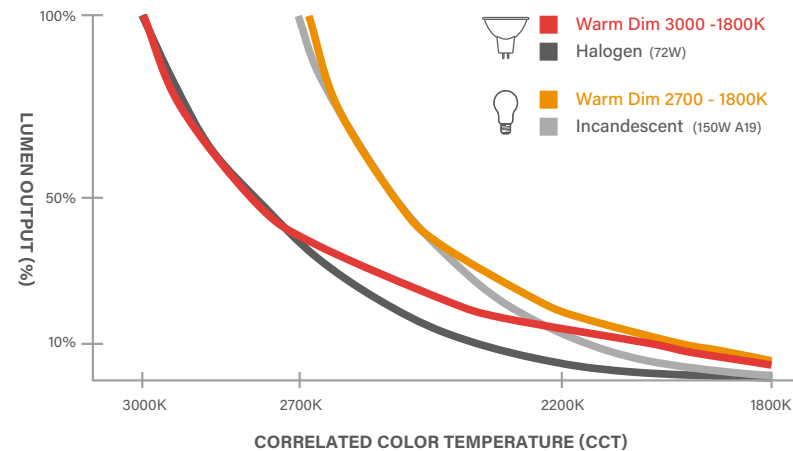
Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread   Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT		Overlap	25°   0.42	34°   0.56	44°   0.70	52°   0.85	64°   0.97	-
		Trimless	24°   0.41	34°   0.56	45°   0.70	58°   0.86	66°   0.99	-
DNS		Overlap	24°   0.41	34°   0.56	45°   0.70	59°   0.86	72°   1.01	-
		Trimless	24°   0.40	34°   0.56	45°   0.70	60°   0.88	69°   1.07	-
DSS		Overlap	-	-	-	-	69°   0.99	92°   1.21
		Trimless	-	-	-	-	72°   0.99	92°   1.26

3.5" SQUARE DOWNLIGHT PERFORMANCE TABLE

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

WD WARM DIM				
CCT Range	Lumen Output	Delivered Lumens	System Watts	LPW
2700 - 1800K	1500L	1455	25	58
3000 - 1800K	1500L	1485	25	59

The 3000K to 1800K and 2700K to 1800K ranges mimic the black body curves of halogen and incandescent light sources, respectively.



WARM DIM

HOUSING ORDERING

Housing Series	FLC33D
ID+ 3.5" Square	
Trim Type	
Square Die-Cast Overlap	SDO
Square Die-Cast Trimless	SDT
Color Options	
Warm Dim	WDM
Lumen Output	
1500 Lumen	1500L
Voltage	
120V	120
277V	277

Control System & Dimming Level

0-10V <1% Dimming	LZ1
0-10V - 1% Dimming	L11
0-10V - 10% Dimming	LD1
Forward Phase (120V only)	LFP
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
Lutron Hi-Lume - Forward Phase (120V only) - 1% Dimming	LTE
DALI <1% Dimming	DZ1
DALI - 1% Dimming	D11

Housing Type

IC-Rated / Airtight	IC
Thermally Protected, Non-IC / Airtight	T
Thermally Protected, Non-IC Wood	TW
(Trimless only. Wood kit required)	

Factory Options

Bar Hangers	BH
Chicago Plenum	CP
Outdoor Rated	OD

(LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 5.)

TRIM & LED MODULE

Aperture

3.5" Square Reflector	LC33
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Trim Type

Square Die-Cast Overlap	SDO
Square Die-Cast Trimless	SDT

Color Options

Warm Dim	WDM
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Lumen Output

1500 Lumen	1500L
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Color Temperature

Warm Dim: 2700-1800K, 90+ CRI	92718W
Warm Dim: 3000-1800K, 90+ CRI	93018W

Optic

Tall Cone with 50° cut-off	DNT
Short Cone with 60° cut-off	DNS
Super Short Cone with Solite Lens 75° cut-off (VWFL or SWFL only)	DSS

Distribution

Narrow Flood	NFL
Flood 1	FL1
Flood 2	FL2
Wide Flood	WFL
Very Wide Flood	VWFL
Super Wide Flood (DSS Optic only)	SWFL

Finish

Clear Diffuse	CD
Warm Diffuse	WD
Black	BK
White	WH

Optional Flange Finish

(Overlap CD & WD finish only) (For matching finishes leave blank)

Black Painted	BP
White Painted	WP

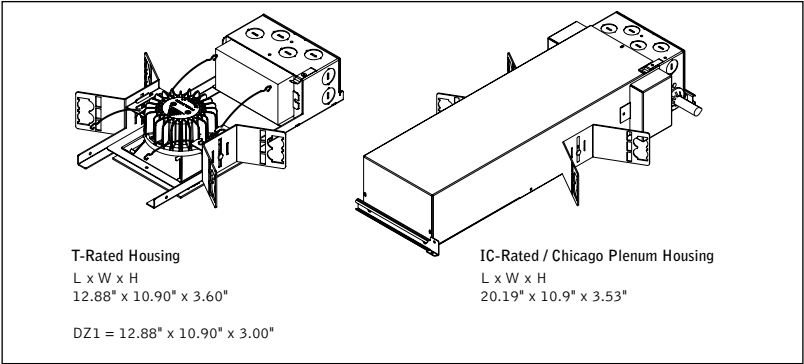
ACCESSORIES

Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33-WOOD-KIT
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project:

TUNABLE WHITE HOUSING DETAILS



3.5" SQUARE DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread   Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT		Overlap	25°   0.42	34°   0.56	44°   0.70	52°   0.85	64°   0.97	-
		Trimless	24°   0.41	34°   0.56	45°   0.70	58°   0.86	66°   0.99	-
DNS		Overlap	24°   0.41	34°   0.56	45°   0.70	59°   0.86	72°   1.01	-
		Trimless	24°   0.40	34°   0.56	45°   0.70	60°   0.88	69°   1.07	-
DSS		Overlap	-	-	-	-	69°   0.99	92°   1.21
		Trimless	-	-	-	-	72°   0.99	92°   1.26

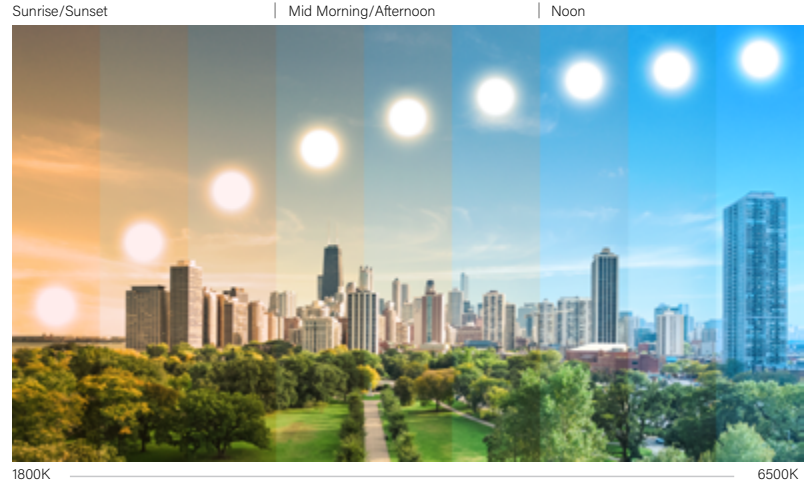
3.5" SQUARE DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

TUNABLE WHITE				
CCT	Lumen Output	Delivered Lumens	System Watts	LPW
2700K (2700-5000K & 2700-6500K)	700L	694	13	52
	900L	902	17	54
	1100L	1112	21	53
	1300L	1307	24	53
1800K (1800-4000K)	700L	701	20	36
	900L	894	25	36

The Comfort (1800K-4000K), Preference (2700K-5000K), and Activity (2700K-6500K) ranges give specifiers the tools to enhance spaces, mood, and alertness.

DAYLIGHT RANGE



TUNABLE WHITE

HOUSING ORDERING

<b>Housing Series</b> ID+ 3.5" Square	FLC33D	<b>FLC33D</b>
<b>Trim Type</b> Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
<b>Color Options</b> Tunable White: 1800-4000K (900L max. T-rated housings only) Tunable White: 2700-5000K Tunable White: 2700-6500K	1840T 2750T 2765T	
<b>Lumen Output</b> 700 Lumen 900 Lumen 1100 Lumen 1300 Lumen	700L 900L 1100L 1300L	
<b>Voltage</b> 120/277 Volt (2705T & 2765T only. IC housing only.) 120V 277V Low Voltage (2705T & 2765T only. IC housing only.)	UNV  120 277 LV	
<b>Control System &amp; Dimming Level</b> 0-10V <1% Dimming Lutron T-Series <1% Dimming DALI <1% Dimming (Requires 2 addresses, one for light intensity & one for color tuning) Low Voltage, PoE Compatible (No driver. Not available with EMR. LV voltage only.)	LZ1 LTZ DZ1  LVN	
<b>Housing Type</b> IC-Rated / Airtight (700L only. 2750T or 2765T only.) Thermally Protected, Non-IC / Airtight Thermally Protected, Non-IC Wood (Trimless only. Wood kit required.)	IC  T TW	
<b>Factory Options</b> Bar Hangers Chicago Plenum (2750T & 2765T: 1100L max. 1840T: 700L only.)	BH CP	
Emergency Battery - Remote test switch (Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)	EMR	

TRIM & LED MODULE

<b>Aperture</b> 3.5" Square Reflector	LC33	<b>LC33</b>
<b>Trim Type</b> Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
<b>Color Options</b> (Trim & housing must match) Tunable White: 1800-4000K Tunable White: 2700-5000K Tunable White: 2700-6500K	1840T 2750T 2765T	
<b>Lumen Output</b> (Trim & housing must match) 700 Lumen 900 Lumen 1100 Lumen 1300 Lumen	700L 900L 1100L 1300L	
<b>Color Temperature</b> Tunable White: 1800-4000K, 90+ CRI Tunable White: 2700-5000K, 90+ CRI Tunable White: 2700-6500K, 90+ CRI	91840T 92750T 92765T	
<b>Optic</b> Tall Cone with 50° cut-off Short Cone with 60° cut-off Super Short Cone with Solite Lens 75° cut-off (VWFL or SWFL only)	DNT DNS DSS	
<b>Distribution</b> Narrow Flood Flood 1 Flood 2 Wide Flood Very Wide Flood Super Wide Flood (DSS Optic only)	NFL FL1 FL2 WFL VWFL SWFL	
<b>Finish</b> Clear Diffuse Warm Diffuse Black White	CD WD BK WH	
<b>Optional Flange Finish</b> (Overlap CD & WD finish only) (For matching finishes leave blank) Black Painted White Painted	BP WP	
<b>ACCESSORIES</b> Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT	

HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. Butterfly brackets allow mounting to 1/2" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. Trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency

Above ceiling access required. Overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height — Clear Diffuse & White: 22.5ft. Black & Warm Diffuse: 15.3ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

Outdoor Rated (OD) Driver Dimming Performance table

Lumen Output	Minimum Dimming Level
700L	20%
900L	16%
1100L	13%
1300L	10%
1500L	10%
1700L	10%
1900L	10%
2100L	10%

Lumen Maintenance

Reported: L70 at >55,000 hours

Calculated: L70 at 204,000 hours

L90 at >55,000 hours

L90 at 59,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -20°C to +40°C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, Warm Dimming (2700K-1800K and 3000K-1800K), or Tunable White (1800K-4000K, 2700K-5000K and 2700K-6500K), CRI>80, >90 or 97. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics

Die-formed aluminum reflector ensures glare free optics. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim.

Optics

50-degree, 60-degree or 75-degree cut-off to light source and its image.

Color Lumen Multipliers

CRI	STANDARD WHITE CCT				WARM DIM CCT RANGES		TUNABLE WHITE CCT RANGES		
	2700	3000	3500	4000	2700-1800K	3000-1800K	1800-4000K	2700-5000K	2700-6500K
80+	0.92	0.98	1.00	1.01	-	-	-	-	-
90+	0.79	0.83	0.82	0.84	0.97	0.99	1.00	1.00	1.00
97	0.67	0.72	0.73	0.76	-	-	-	-	-

Distribution Lumen Multipliers

Trim Type	Optic	Distribution	Multiplier
Square Die-Cast Trimless [SDT]	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.93
		Flood 1 [FL1]	1.00
		Flood 2 [FL2]	0.92
		Wide Flood [WFL]	1.13
		Very Wide Flood [VWFL]	0.90
	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	0.95
		Flood 1 [FL1]	1.03
		Flood 2 [FL2]	0.98
		Wide Flood [WFL]	0.96
		Very Wide Flood [VWFL]	1.24
Square Die-Cast Overlap [SDO]	Tall Cone with 50° cut-off [DNT]	Narrow Flood [NFL]	0.94
		Flood 1 [FL1]	1.00
		Flood 2 [FL2]	0.93
		Wide Flood [WFL]	1.03
		Very Wide Flood [VWFL]	0.86
	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	0.95
		Flood 1 [FL1]	1.02
		Flood 2 [FL2]	0.97
		Wide Flood [WFL]	0.94
		Very Wide Flood [VWFL]	0.98
Square Die-Cast Trimless [SDT]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Very Wide Flood [VWFL]	1.07
		Super Wide Flood [SWFL]	1.02
Square Die-Cast Overlap [SDO]	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Very Wide Flood [VWFL]	1.03
		Super Wide Flood [SWFL]	0.98

Color Lumen Multipliers

Trim Type	Optic	Color	Multiplier
ALL	Tall Cone with 50° cut-off [DNT]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	1.01
		White [WH]	1.23
		Black [BK]	0.79
	Short Cone with 60° cut-off [DNS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.89
		White [WH]	0.97
		Black [BK]	0.83
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.99
		White [WH]	1.15
		Black [BK]	0.88

How To Use Lumen Multipliers

**Formula:**  
(Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

**Example:**  
LC33-SDO-SW-1100L-935K-DNS-FL1-WH  
(1100) x (0.81) x (1.02) x (0.97) ≈ 882lm (estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information.