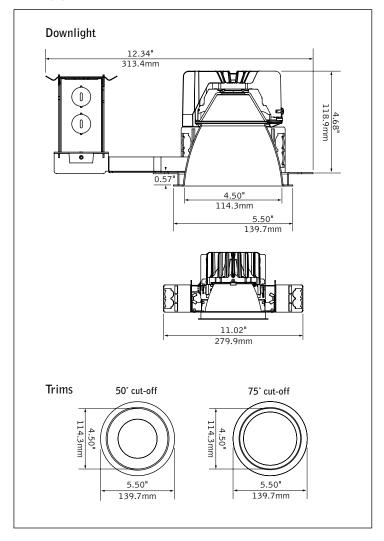








# **DIMENSIONAL DATA**



# **FEATURES**

Field adjustability of ceiling thickness from 0.5" to 3.0".

50° or 75° cutoff to light source and its image.

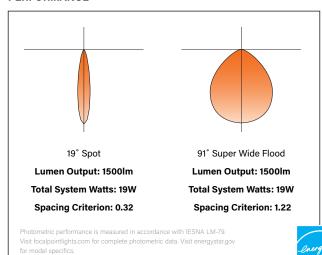
Right Light: Standard delivered lumen outputs 1000, 1500, 2000, 2500, and 3000.

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.

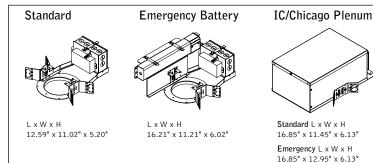
Compatible with common pre-engineered grid ceiling systems requiring luminaires fitting into a 6" slot.

### **PERFORMANCE**





# **HOUSING DETAILS**



### **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. 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. T-rated: UL & cUL Listed for (6) #14 AWG (3 in, 3 out) 90°C conductors and feed through-branch wiring. IC/CP housing: UL & cUL Listed for (8) #12 AWG (4 in, 4 out) 90°C conductors and feed through-branch wiring for IC/CP housing. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 3.0" thickness. For thicker ceiling consult factory. Order TZB option for TechZone compatible housing brackets. T-rated housing will not exceed 6lb, IC/CP housing will not exceed 12lb.

#### 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

Emergency Battery Pack: Bodine BSL17C–C2. Emergency output —7W for 90 minutes. Maximum mounting height: 25.8ft. (Black reflector: 18.0ft.) Not wet location or outdoor rated.

#### Labels

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

### Lumen Maintenance

### 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, 80+ CRI or 90+ CRI. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Color accuracy within 2 SDCM. Aluminum heat sink provides appropriate thermal management.

### **Aesthetics**

Parabolic reflector cone ensures glare free optics. Reflector is .050" spun aluminum. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Trims are self-flanged. Non-painted trim matches reflector finish. White or Black painted flange may also be specified.

### Optics

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

Ор-	Cut-Off	Lumen	Distribution Beam Spread   Spacing Criteria						
tic	Degree	Output	SP	NFL	FL1	FL2	WFL	VWFL	SWFL
DN	/ 50°	1000- 2500	19°   .32	24°   .42	34°   .54	44°   .68	59°   .92	-	-
DIN	/	3000	-	25°   .42	35°   .58	44°   .70	60°   .94	-	-
DSS	75°	1000- 2500	-	-	-	-	-	73°   1.00	91°   1.22
		3000	-	-	-	-	-	68°   .98	91°   1.22

# PERFORMANCE CHART\* - see page 3.

ID+ 4.6" Round Downlight To Propose Round Overlap Color Options Standard White, 80 & 90 CRI Warm Dim (1800 & 2000 lumens only UNV & EM not available) Lumen Output 1000 Lumens 1500 Lumens	HOUSING ORDERING Housing Series		FLC4D
Standard White, 80 & 90 CRI Warm Dim (1500 & 20000 lumens only UNV & EM not available) Lumen Output 1000 Lumens 15000 Lume	ID+ 4.5" Round Downlight	FLC4D	
Standard White, 80 & 90 CRI Warm Dim (1500 & 2000 lumens only UNV & EM not available) Lumen Output 1000 Lumens 1500 Lumens 1500 Lumens 2000 Lumens 200	Round Overlap	RO	<del>KU</del>
(1500 & 2000 lumens only, UNV & EM not available) Lumen Output 1000 Lumens 1500 Lumens 1500 Lumens 2000 Lumens 200	Standard White, 80 & 90 CRI		
1000 Lumens 1500 Lumens 2000 Lumens 2000 Lumens 2500 Lumens 3000 Lumens 2500 Lumens 2500 Lumens 3000 Lumens 3000 Lumens 3000 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000 Lumens 3000 Lumens 2500 Lumens 270 Lume	(1500 & 2000 lumens only. UNV & EM not available.)	VVDIVI	
2000 Lumens 2500 Lumens 3000L 2500 Lumens 3000L 3000 Lumens 3000L 3000Lumens 3000L 3000Lumens 3000L 3000Lumens 3000L 3000Lumens 3000L 3000Lumens 3000L 3000Lumens 270V 277V 277V 120V 277V 120V 277V 120V 277V 120V 277V 120V 120V 120V 120V 120V 120V 120V 120	1000 Lumens		
(Not available with SP distribution, LFP or ITE)  Voltage UNV 120V/277V (IC housing only Not available with LFP or ITE)  120V 277V (IC housing 2000L max. T housing: 1000L only) (IC housing: 2000L max. T housing: 100L only) (IC hous	2000 Lumens	2000L	
Voltage	3000 Lumens		
(IC housing only, Not available with LP or LTE) 120V 127V 1277 Low Voltage (IC housing: 2000L.max. T housing: 1000L.only) Control System & Dimming 0-10V - 0% Dimming 0-10V - 10% Dimming Low Voltage, Poe Compatible (No driver. hot available with EM. LV Witage only) Low Forward Phase (200 L) Forward Phase (200 L) Forward Phase (200 L) Lutron Hi-Lume EcoSystem (LDE1) - 100 L) Special Comming Lutron Hi-Lume Forward Phase (200 L) Lutron Hi-Lume Forward Phase (200 L) DALI - 1% Dimming DALI - 1% Dimm	Voltage	LIMV	
Control System & Dimming Level	(IC housing only. Not available with LFP or LTE.)		
(IChousing 2000L max. Thousing: 1000L only)  Control System & Dimming Level 0-10V - 19% Dimming 0-10V - 19% Dimming Low Voltage, PoE compatible (No driver. Not available with EM LV Voltage only) Forward Phase row conty Forward Phase row conty 19% Dimming Lutron Hi-Lume EcoSystem (LDE1) - 19% Dimming DALI - 19% Dimmi	277V	277	
O-10V - 19% Dimming O-10V - 19% Dimming Low Voltage, PoE compatible (No driver. Not available with EM LV Voltage only) Forward Phase roav early Forward Phase roav early Lutron Hi-Lume EcoSystem (LDE1) 1% Dimming Lutron Hi-Lume Forward Phase 1% Dimming Lutron Hi-Lume Forward Phase 1% Dimming DALI - 19% Dimming Polity CRatted / Airtight (LIT, LDI, LNN, Lith 2000, Lmax, Exe dimming Housing Type IC Ratted / Airtight LTE 1000L only, LC4AT required for Airtight. Not available with EM) Thermally Protected Factory Options Bar Hangers Chicago Plenum / National Plenum Emergency Battery (Must order LC4EM trim. Not web book driver only in County Performance Chart on page 3) Bracket for 6" slot pre-engineered ceiling Performance Chart on page 3) Bracket for 6" slot pre-engineered ceiling TRIM & LED MODULE A,5" Round Reflector - Airtight rating) 4.5" Round Reflector - Femergency (Required for 'EM' opton. Div opto only, Not wet location or outdoor rated) Trim Type (DSS, VWFL & SWFL, options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 1	(IC housing: 2000L max. T housing: 1000L only.)		
Low Voltage, PoE compatible (No driver. Not available with EM LV Voltage only) Forward Phase roave only Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming Lutron Hi-Lume Forward Phase - 1% Dimming Lutron Hi-Lume Forward Phase - 1% Dimming DALI - 1% Dim	0-10V - 0% Dimming		
No driver. Not available with EM LV Voltage only	0-10V - 10% Dimming	LD1	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming Lutron Hi-Lume - Forward Phase - 19% Dimming (120V only) DALI - 19% Dimming DALI - 19% DALI	(No driver. Not available with EM. LV Voltage only.)		
Lutron Hi-Lume - Forward Phase - 1% Dimming (120V only) DALI - 1% Dimming DALI - 1% Dimming Housing Type IC Rated / Airright Housing Type IC Rated / Airright IC Rated	Lutron Hi-Lume EcoSystem (LDE1) -		
DALL - 19% Dimming DALL - 19% Dimming Housing Type IC Racted / Airright (LTL, LDI, LVN, LH1 2000L max, LZ1, DTI, DZI, LPF 1800L, max, LTE 1000L, only, LCAAT required for Airshi, Not available with the Factory Options Bar Hangers Chicago Plenum / National Plenum Emergency Battery (Must order LC4EM trim, Not wet location or outdoor rated) Outdoor Rated (LDI driver only, IC housing 1500L max, See drimming Performance Chart on page 3.)  Bracket for 6" slot pre-engineered ceiling TZB  TRIM & LED MODULE Apprure 4.5" Round Reflector - Airtight (IC housing required for Airtight airing) 4.5" Round Reflector - Emergency (Required for EM cotton) outdoor rated out	Lutron Hi-Lume - Forward Phase -		
Housing Type   CRated / Artright   CRATE   C	DALI - 0% Dimming	DZ1	
LTE 1000L only LC4AT required for Aright Not available with EM)  Thermally Protected Factory Options  Bar Hangers  Chicago Plenum / National Plenum Emergency Battery (Must order LC4EM trim Not well tocation or outdoor rated)  Outdoor Rated (LD1 driver only. IC housing 1500L max. See dimming Performance Chart on page 3)  Bracket for 6" slot pre-engineered ceiling  TRIM & LED MODULE Aperture 4.5" Round Reflector - Airtight (Chousing required for Airtight rating) 4.5" Round Reflector - Emergency (Required to TeM) option Diption Not wet location or outdoor rated)  Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 3000 Lumens 2000 Lumens 3000 Lumens 3000 Lumens 3000 Lumens 4000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 500 & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only) Super Short Cone with Solite Lens 75" cut-off Color Clear Diffuse Warm Diffuse only White (Whise Painted flange only) Warm Black Painted flange only) White (Whise Painted flange only) Warm Diffuse Warm D	Housing Type		
Thermally Protected Factory Options Bar Hangers Chicago Plenum / National Plenum Emergency Battery (Must order LC4EM trim Not wet location or outdoor rated) Outdoor Rated (LD1 driver only, IC housing 1500L max See dimming Performance Chart on page 3) Bracket for 6" slot pre-engineered ceiling  TRIM & LED MODULE Aperture 4.5" Round Reflector - Airtight (IC housing required for Airtight tailing) 4.5" Round Reflector - Airtight (IC housing required for Airtight tailing) 4.5" Round Reflector - Emergency (Required for FMF option. DN option) Not wet location or outdoor rated) Trim Type Round Round Die-Cast Overlap (DS; VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 1500 Lumens 1500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000 Lumens (Not available with SP distribution) Cofor Temperature 2700K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI (1500 & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only) Downlight with 50" cut-off (Die-cast trim, RDO, with VWFL or SWFL only) Distribution Spot Narrow Flood Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) White (White Painted flange only) White White Painted flange only Black (Black Painted flange only) White White Painted flange only Black Painted flange only Black Painted flange only White White Painted flange only Black Painted Black	(L11, LD1, LVN, LH1 2000L max. LZ1, D11, DZ1, LFP 1500L max.	IC	
Factory Options Bar Hangers Chicago Plenum / National Plenum Emergency Battery (Must order LC4EM trim. Not wet location or outdoor rated) Outdoor Rated (LD1 driver only, IC housing 1500L max. See dumning Performance Chart on page 3) Bracket for 6" slot pre-engineered ceiling  TRIM & LED MODULE Aperture 4.5" Round Reflector - Airtight (IC housing required for Airtight taling) 4.5" Round Reflector - Airtight (IC housing required for Airtight taling) 4.5" Round Reflector - Airtight (IC housing required for Airtight taling) 4.5" Round Reflector - Emergency (Required or Fell options only) Lumen Output (Trim & Housing output must match) Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1500 Lumens 1500 Lumens 1500 Lumens 2500 Lumens 3000 Lumens (Not available with 5P distribution) Color Temperature 2700K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Optic Downlight with 50" cut-off DN DSS  Super Short Cone with Solite Lens 75" cut-off CDe-cast trim, RDO, with VWFL or SWFL only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) White (Whise Painted flange only) White Whise Painted flange only Black (Black Painted flange only) White Whise Painted flange only Black Painted flange only Black Painted flange only Black Painted flange only White Whise Painted flange only Black Painted flange only White Whise Painted flange only Black Painted flange only White Whise Painted flange o	with EM.)	т	
Chicago Plenum / National Plenum Emergency Battery (Must order LC4EM trim. Not wet location or outdoor rated)	Factory Options		
(Must order LC4EM trim. Not wet location or outdoor rated)  Outdoor Rated (LD1 driver only. IC housing 1500L max. See dimming Performance Chart on page 3)  Bracket for 6" slot pre-engineered ceiling  TRIM & LED MODULE Aperture  4.5" Round Reflector 4.5" Round Reflector - Airtight rating) 4.5" Round Reflector - Emergency (Required for 'EM' option. DN optio only. Not wet location or outdoor rated)  Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only)  Lumen Output (Trim & Housing output must match) 1500 Lumens 1500 Lumens 1500 Lumens 2000 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000 Lumens 2500 Lumens 2700K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI (1500 & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)  Downlight with 50" cut-off (Die-cast trim, RDQ, with WWFL or SWFL only) Distribution Spot Narrow Flood Flood 1 Flood 2 WFL VWFL Super Wide Flood (DSS Optic only) White (White Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Chicago Plenum / National Plenum	CP	
CDI driver only. Ich housing 1500L max. See dimming Performance Chart on page 3.   TZB	(Must order LC4EM trim. Not wet location or outdoor rated.)		
TRIM & LED MODULE Aperture 4.5" Round Reflector - Airtight (IC housing required for Airtight rating) 4.5" Round Reflector - Emergency (Required for 'EM' option. DN optic only. Not wet location or outdoor rated.)  Trim Type Round Round Die-Cast Overlap (DSS, WVEL & SWFL options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 1500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000 Lumens 3000 Lumens 2500 Lumens 3000 Lumens 3000 Lumens 3000 Lumens 3000 Lumens 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 400K & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (I500 & 2000 lumens only) Optic Downlight with 50° cut-off (Die-cast trim, RDO, with VWFL or SWFL only) Distribution Spot Narrow Flood Flood 1 FL1 Flood 2 Wide Flood Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic Op	(LD1 driver only. IC housing 1500L max. See dimming Performance Chart on page 3.)		
Aperture 4.5" Round Reflector - Airtight (IC housing required for Airtight rating) 4.5" Round Reflector - Emergency (Required for 'EM' option. DN optice only. Not wet location or outdoor rated) Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 1500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000 Lumens (Not available with SP distribution) Color Temperature 2700K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI (I500 & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Dy Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Dy Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 300-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (I500 & 2		IZB	
4.5" Round Reflector - Airtight (Chousing required for Airtight rating) 4.5" Round Reflector - Emergency (Required for "EM" option. DN toptic only. Not wet location or outdoor rated.  Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1500 Lumens 1500 Lumens 1500 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2500 Lumens 3000 Round Symbol Symbol 2500 Lumens 2700K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 300K, 80+ CRI or 90+ CRI 300K, 80+ CRI or 90+ CRI 300K, 80+ CRI or 90+ CRI 30K or 935K 400K, 80+ CRI or 90+ CRI 30K or 930K 350K, 80+ CRI or 90+ CRI 30K or 930K 350K, 80+ CRI or 90+ CRI 30K or 930K 350K, 80+ CRI or 90+ CRI 30K or 930K 350K, 80+ CRI or 90+ CRI 30K or 930K 350K, 80+ CRI or 90+ CRI 30K or 930K 350K, 80+ CRI or 90+ CRI 30K or 930K 350K or 930K 350K, 80+ CRI or 90+ CRI 35K or 935K 40K or 940K 92718W 92718W 93018W  93018W  Super Short Cone with Solite Lens 75° cut-off (Die-cast trim, RDO, with VWFL or SWFL only) Distribution Spot Narrow Flood Very Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse Black (Black Painted flange only) White (white Painted flange only) White (white Painted flange only) White (white Painted flange only) Black Painted Black Painted Black Painted BP	Aperture		
4.5" Round Reflector - Emergency (Required for "EM" option DN optic only. Not wet location or outdoor rated)  Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 1500 Lumens 1500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000 Lumens 4000 Corr Sortic or S	4.5" Round Reflector - Airtight		
Trim Type Round Round Die-Cast Overlap (DSS, VWFL & SWFL options only) Lumen Output (Trim & Housing output must match) 1000 Lumens 1500 Lumens 1500 Lumens 2000 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only) Optic Downlight with 50° cut-off (Die-cast trim, RDO, with VWFL or SWFL only) Distribution Spot Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) NP Black Painted flange only) NP Black Painted flange only) NP Black Painted	4.5" Round Reflector - Emergency	LC4EM	
Round Die-Cast Overlap (DSS, VWFL & SWFL options only)  Lumen Output (Trim & Housing output must match) 1500 Lumens 1500 Lumens 1500 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2000 Lumens 2500 Lumens 2500 Lumens 2700K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 2778W Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)  Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)  Optic Downlight with 50° cut-off (Die-cast trim, RDO, with VWFL or SWFL only) Distribution Spot Narrow Flood Flood 1 Flood 2 Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Black (Black Painted flange only) White (white Painted flange only) Black Painted Black Painted Black Painted BP	Not wet location or outdoor rated.)		
(DSS, VWFL & SWFL options only)  Lumen Output (Trim & Housing output must match) 1000 Lumens 1500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 2500 Lumens 3000L 2700 Femperature 2700K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI (1500 & 2000 lumens only) Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)  Optic Downlight with 50° cut-off (Die-cast trim, RDO, with VWFL or SWFL only)  Distribution Spot Narrow Flood Flood 1 Flood 2 Flood 1 Flood 2 Flood 1 Flood 2 Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse Warm Diffuse Warm Diffuse White (White Painted flange only) Why Plange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Round		
1000 Lumens   1500L   2000L   2500 Lumens   2000L   2500 Lumens   2500L   3000L   2700K   80+ CRI   or 90+ CRI   300K   80+ CRI   or 90+ CRI   35K   or 930K   3500K   80+ CRI   or 90+ CRI   4000K   80+ CRI   or 90+ CRI   400K   000   400K   92718W   92718W   92718W   93018W   9301	(DSS, VWFL & SWFL options only)  Lumen Output		
2000 Lumens   2500L   3000L   2500L   3000 Lumens   2500L   3000L   2500L   3000L   2500L   3000L   2700K, 80+ CRI or 90+ CRI   3000K, 80+ CRI or 90+ CRI   35500K, 80+ CRI or 90+ CRI   35500K, 80+ CRI or 90+ CRI   35500K, 80+ CRI or 90+ CRI   4000K, 80+ CRI or 90+ CRI   4000K, 80+ CRI or 90+ CRI   92718W	(Trim & Housing output must match)	1000L	
Color Temperature   2700K, 80+ CRI or 90+ CRI   3000K, 80+ CRI or 90+ CRI   30K or 930K   3500K, 80+ CRI or 90+ CRI   3500K, 80+ CRI or 90+ CRI   4000K, 80+ CRI   92718W   4000K, 80+ CRI   92718W   4000K, 80+ CRI   92718W   4000K, 80+ CRI   92718W   4000K, 80+ CRI   93018W   4000K, 80+ CRI   930		2000L	
Color Temperature   2700K, 80+ CRI or 90+ CRI   3000K, 80+ CRI or 90+ CRI   3500K, 80+ CRI or 90+ CRI   35K or 935K   4000K, 80+ CRI or 90+ CRI   40K or 940K   92718W   927	3000 Lumens		
3000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI 400 or 940 CRI (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)  Optic Downlight with 50° cut-off  Downlight with 50° cut-off (Die-cast trim, RDO, with VWEL or SWEL only)  Distribution Spot Narrow Flood Flood 1 Flood 2 Wide Flood (DSS optic only) Super Wide Flood (DSS optic only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted Bape  NP Black Painted Bape  NP Black Painted Bape Black	Color Temperature		
## 4000K, 80+ CRI or 90+ CRI 92718W    Warm Dim: 2700-1800K, 90+ CRI (1500 & 2000 lumens only)     Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)     Optic Downlight with 50° cut-off     Downlight with 50° cut-off (Die-cast trim, RDO, with VWFL or SWFL only)     Distribution Spot Narrow Flood 1 FL1 Flood 2 FL2 Wide Flood (DSS Optic only)     Wery Wide Flood (DSS Optic only)     Super Wide Flood (DSS Optic only)     Color Clear Diffuse Warm Diffuse Warm Diffuse Black (Black Painted flange only)     White (white Painted flange only)     Black Painted     Bl	3000K, 80+ CRI or 90+ CRI	30K or 930K	
(1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI (1500 & 2000 lumens only)  Optic Downlight with 50° cut-off  Super Short Cone with Solite Lens 75° cut-off (Die-cast trim, RDO, with VWFL or SWFL only)  Distribution Spot Narrow Flood Flood 1 FL1 Flood 2 FL2 Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) SWFL Color Clear Diffuse Warm Diffuse Warm Diffuse WD Black (Black Painted flange only) WH Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	4000K, 80+ CRI or 90+ CRI	40K or 940K	
(1500 & 2000 lumens only) Optic Downlight with 50° cut-off Super Short Cone with Solite Lens 75° cut-off (Die-cast trim, RDO, with VWFL or SWFL only) Distribution Spot Narrow Flood Flood 1 Flood 2 Flood 2 Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) SWFL Color Clear Diffuse Warm Diffuse Warm Diffuse WbD Black (Black Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	(1500 & 2000 lumens only)	92718W	
Downlight with 50° cut-off DN DSS  Super Short Cone with Solite Lens 7° cut-off (Die-cast trim, RDO, with VWFL or SWFL only)  Distribution Spot Narrow Flood NFL Flood 1 FL1 Flood 2 FL2 Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) SWFL Color Clear Diffuse Warm Diffuse Black (Black Painted flange only) White (White Painted flange only) White (White Painted flange only) BK Whon-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP		93018W	
(Die-cast trim, RDO, with VWFL or SWFL only)  Distribution Spot Spot Narrow Flood Flood 1 Flood 2 FL2 Wide Flood WFL Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse Warm Diffuse WbD Black (Black Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Downlight with 50° cut-off		
Narrow Flood NFL Flood 1 Flood 2 FL2 Wide Flood WFL Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse WD Black (Black Painted flange only) White (White Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	(Die-cast trim, RDO, with VWFL or SWFL only)	DSS	
Flood 1 FL1 Flood 2 FL2 Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse WD Black (Black Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Spot		
Wide Flood Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse WD Black (Black Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Flood 1	FL1	
Super Wide Flood (DSS Optic only) Color Clear Diffuse Warm Diffuse Warm Diffuse Black (Black Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Wide Flood	WFL	
Clear Diffuse WD WD WD Black (Black Painted flange only) WH Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Super Wide Flood (DSS Optic only)		
Black (Black Painted flange only) White (White Painted flange only) Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Clear Diffuse		
Flange Finish Non-Painted, matches reflector color (Clear and warm diffuse only) Black Painted BP	Black (Black Painted flange only)	BK	
(Clear and warm diffuse only) NP Black Painted BP	Flange Finish	WH	
	(Clear and warm diffuse only)		

# **ROUND DOWNLIGHT PERFORMANCE CHART**

Lun	nen Output	Delivered Lumens	System Watts	LPW
	1000L	1045	11	92
	1500L	1571	19	82
WD	1500L	1433	25	57
	2000L	2087	26	82
WD	2000L	2014	37	55
	2500L	2523	32	79
	3000L	3050	36	84

Based on downlight (DN) optic, 3500K, 80CRI, Wide Flood, Clear Diffuse. WDM base on 3000 - 1800K, 90 CRI. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

# **OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE CHART**

Lumen Output	Minimum Dimming Level
1000L	25%
1500L	16%
2000L	12%
2500L	10%
3000L	10%

# **ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE**

### **Color Temperature & CRI**

Trim Type	Optic	Lumen Output	Color Temperature	Multiplier
	ALL	ALL	2700K, 80+ CRI [27K]	0.93
			2700K, 90+ CRI [927K]	0.80
			3000K, 80+ CRI [30K]	0.97
			3000K, 90+ CRI [930K]	0.85
			3500K, 80+ CRI [35K]	1.00
A11			3500K, 90+ CRI [935K]	0.83
ALL			4000K, 80+ CRI [40K]	1.01
			4000K, 90+ CRI [940K]	0.86
		1500	2700-1800K, 90+ CRI [92718W]	0.94
		2000		1.01
		1500 2000	3000-1800K, 90+ CRI [93018W]	0.96
				1.01

### Distribution

Trim Type	Optic	Distribution	Multiplier	
			1000 - 2500L	3000L
		Spot [SP]	1.07	-
	Round Downlight with 50° cut-off [DN]	Narrow Flood [NFL]	1.03	1.05
Round Trimless [RT]		Flood 1 [FL1]	0.99	1.01
		Flood 2 [FL2]	0.99	0.98
		Wide Flood [WFL]	1.02	1.03
		Spot [SP]	1.07	-
	Round Downlight with 50° cut-off [DNT]	Narrow Flood [NFL]	1.12	1.11
Round Overlap [RO]		Flood 1 [FL1]	1.07	1.01
		Flood 2 [FL2]	1.00	1.02
		Wide Flood [WFL]	1.01	1.02
Devel Die Oest Tiislees [DDT]	Super Short Cone with Solite Lens	Very Wide Flood [VWFL]	0.83	0.84
Round Die-Cast Trimless [RDT]	with 75° cut-off [DSS]	Super Wide Flood [SWFL]	0.80	0.81
Davind Dia Coat Overlan [DDO]	Super Short Cone with Solite Lens	Very Wide Flood [VWFL]	0.80	0.83
Round Die-Cast Overlap [RDO]	with 75° cut-off [DSS]	Super Wide Flood [SWFL]	0.82	0.82

# Color

Trim Type	Optic	Color	Multiplier
		Clear Diffuse [CD]	1.00
Round Trimless [RT] and	Round Downlight with 50° cut-off [DN]	Warm Diffuse [WD]	0.86
Round Overlap [RO]		White [WH]	1.00
		Black [BK]	0.50
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Clear Diffuse [CD]	1.00
Round Die-Cast Trimless [RDT] and		Warm Diffuse [WD]	0.95
Round Die-Cast Overlap [RDO]		White [WH]	1.10
		Black [BK]	0.85

Multiplier tables are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. Refer to IES files for most accurate photometric information.

# **How To Use Lumen Multipliers**

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

Example: LC4-RO-2000L-935K-DN-NFL-WH

(2000) x (0.83) x (1.12) x (1.00) ≈ 1859 lm (estimated delivered lumens)