

PROJECT

TYPE

SPECIFIER

MEMO

ORDERING CODE BREAKDOWN

BARITONE NEW CONSTRUCTION 2" ROUND + SQUARE DOWNLIGHT

MAIN FEATURES

- Designed for new construction installations
- Custom TIR optic platform to ensure excellent light control
- Delivering up to 4000 lumens at 3500K, 90+ CRI and 41W
- Modular platform with easy maintenance
- Dimming to 1% via Phase-cut or 0-10V or optional 0.1% 0-10V, DALI, or DMX
- Super-shallow installation height of <2.5" and non-conductive baffles



Round and square with (SD/PW)
Specular Baffle + White Flange

FIXTURE	MODULE	CEILING THICKNESS	BAFFLE FINISH	FLANGE FINISH	BEAM SPREAD	CRI	CCT	LUMENS	POWER SUPPLY	INSTALLATION	FIXTURE OPTIONS
BDLR : Round	2D : 2"	1 : 0.50"-1.5"	PW : Perfect White	PW : Perfect White	NSP : Narrow Spot (15°)	9 : 90+ CRI	27 : 2700K	500 : 8W 1000 : 10W	UNV : 120-277V, 1% phase-cut/ 0-10V	NCT ⁷ : New Construction Tray with Field installed Standard Hangar Bars	CASPC ⁶ : Casambi Wireless Phase-cut Node
BDLS : Square			BK : Black	BK : Black	NFL : Narrow Flood (25°)		30 : 3000K	1500 : 15W	UDA ⁴ : 120-277V 0.1% Logarithmic DALI-2 D4i (DT8 standard; for DT6, add option)		CAS10 ^{6,7} : Casambi Wireless 0-10V Node
			SD ⁸ : Semi-diffused	SD ⁸ : Semi-diffused	FL : Flood (40°)		35 : 3500K		UN1 ⁴ : 120-277V 0.1% Logarithmic 0-10V	NCC ⁷ : New Construction Tray (with Field installed Commercial Hangar Bars with mounting brackets for vertical adjustment)	CAS ⁶ : Casambi Wireless DALI-2 Node
					WFL : Wide Flood (60°)		40 : 4000K		DMX : 120-277V 0.1% DMX (Incompatible with wireless nodes)	RM : Remodel	AWNR ⁶ : Lutron Athena Wireless DALI-2 Node
					VFL : Very Wide Flood (82°)		50 : 5000K				LEV ⁶ : Leviton Intellect DALI-2 Wireless Node
					NFL : 33° FL : 47° WFL : 66° VFL : 98°	D ³ : Dim-to-Warm (98 CRI)	27 : 2700K 30 : 3000K	1500 ³ : 16W (Dim-to-warm only)		CPRM : Remodel with Chicago Plenum wiring Box	WAT ⁶ : Wattstopper/ Encelium DALI-2 Node
											AVION ^{6,7} : Avi-on Wireless
											EM ^{1,2} : 10W Integrated Emergency Battery Backup
											DT6 : DALI DT6 (For use with UDA)
											DF ⁸ : Dead Front

Notes: ¹Emergency test switch must be remote mounted with SD flange finish (using EM Fixture Option)

²Consult factory for longer EM runtime options.

³Dim-to-warm option is 98 CRI, 3000K to 1800K, and only offered with the 1400 lumen package.

⁴UN1, UD1, and DMX Power Supplies available with Lumen Packages up to 2000

⁶Wireless Node Compatibility: CASPC only with UNV; CAS10, AVION only with UNV + UN1; and CAS, AWRN, LEV, WAT with UDA power supply only.

⁷CAS10 and AVION Wireless nodes available with NCT and NCC only

⁸Dead Front option available with SD baffle finish AND SD flange finish only

OPTICS + PERFORMANCE

- 5 custom beam spreads available
 - Narrow Spot - 15°
 - Narrow Flood - 25°
 - Very Wide Flood - 82°
 - Flood - 40°
 - Wide Flood - 60°
- Performance packages
 - 10W; 1000 lumens
 - 15W; 1500 lumens
 - 20W; 2000 lumens
 - 26W; 2500 lumens
 - 21W; 1400 lumens (*dim-to-warm*)
 - 21W; 1600 lumens (*tunable white*)
 - 33W; 3000 lumens
 - 40W; 3500 lumens
 - 46W; 4000 lumens
- Color Temperatures
 - 90+ CRI Standard: 2700K, 3000K, 3500K, 4000K, 5000K
 - Dim-to-Warm: 98 CRI, 3000K to 1800K
 - Tunable White: 4000K to 1800K, 6000K to 2700K
- Fixture life:
 - Full power: 50,000 hours
 - 75% power: 100,000 hours
 - Below 50% power: 125,000 hours
 - LED 90% lumen maintenance: 60,000 hours

POWER + CONTROLS

- Universal Input: 120-277V
- Proprietary Solais driver dimming
 - UNV: Linear 1% Phase-cut or 0-10V
 - UDA: Logarithmic 0.1% DALI-2 D4i DT8; DT6 option
 - UN1: Logarithmic 0.1% 0-10V
 - DMX: Logarithmic 0.1% DMX
- Casambi, Lutron, Leviton, Avi-on and Wattstopper wireless controls
- Preinstalled 10W emergency battery backup with built-in, integral trim test switch option; no need for remote wiring. Consult factory for longer EM runtime options

CONSTRUCTION + FINISH

- Weight 3.75 lbs.
- Galvanized steel tray
- Single-piece die-cast aluminum heatsink powder-coated with polyester powder
- Non-conductive baffles
- "Dead front" with semi-diffused specular baffle AND flange (SD/SD)

TRIM + BAFFLE OFFERINGS

- Ceilings: gypsum, wood, t-bar, specialty, other
- Ceiling Thicknesses: ½" - 1 ½"
- Standard baffle + flange colors (*CF for custom*):
 - White: RAL 9003
 - Black: RAL 9005
- Semi-diffused Specular (*semi-diffused specular flange only available with semi-diffused specular baffle*)

RATINGS + CERTIFICATIONS

- IC rated up to 2000 lumens/20W (without enclosure), Non-IC 2500+ lumens/26W
- Emergency Battery pack is California Title 20 compliant
- ETL listed; conforming to UL safety standards
- IK10 Impact Rating
- Wet location rated; approved for use in showers and outdoors with covered canopy
- Contain no lead or mercury
- Intended for normal ambient temperature applications. Consult factory for elevated temperatures or humidity (e.g. steam, hot yoga, etc.)

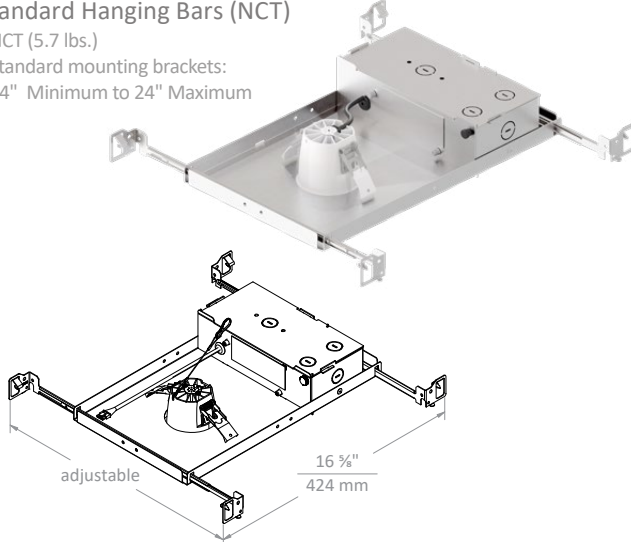
WARRANTY

- 5-year warranty

HANGING BARS DIMENSIONAL DETAILS

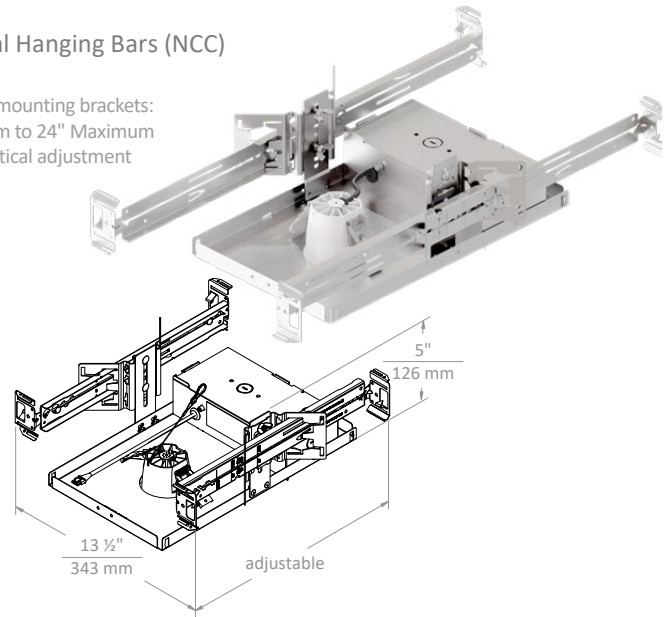
Standard Hanging Bars (NCT)

- NCT (5.7 lbs.)
- Standard mounting brackets: 14" Minimum to 24" Maximum



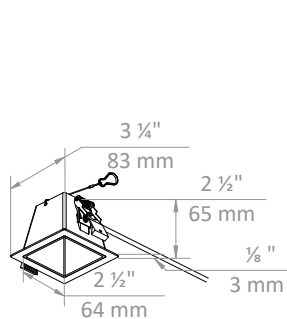
Commercial Hanging Bars (NCC)

- NCC (7.2 lbs.)
- Commercial mounting brackets: 10" Minimum to 24" Maximum with 2 ¾" vertical adjustment

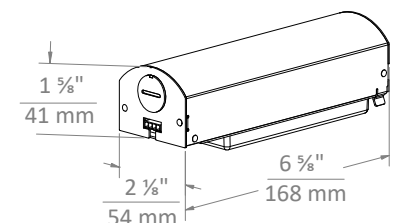


REMODEL (RM)

- Round Ceiling Cutout: Ø 4 ¾"
- Square Ceiling Cutout: 4 ½" x 4 ½"

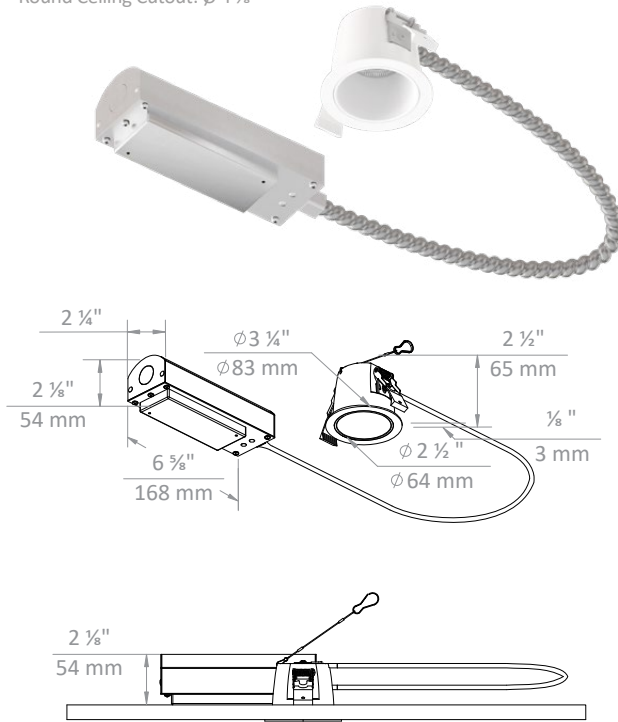


FLOATING J-BOX

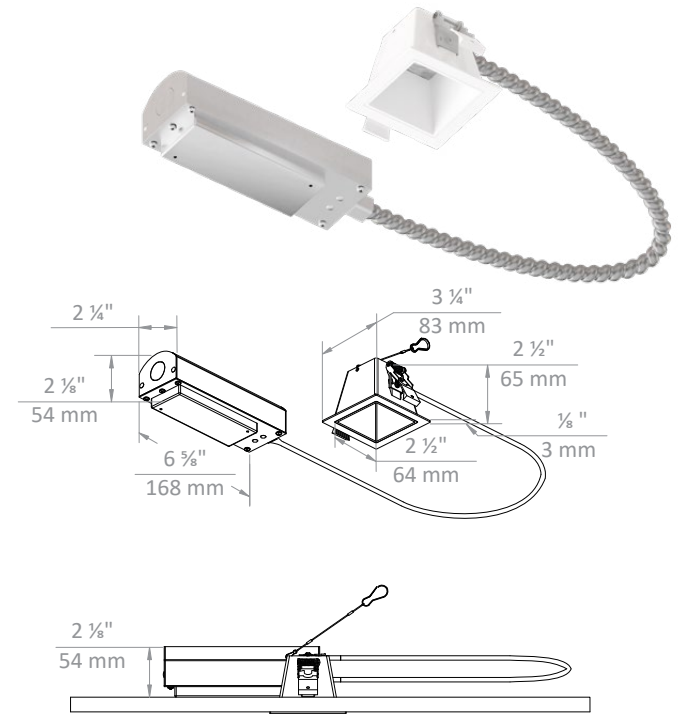


REMODEL CHICAGO PLENUM (CPRM)

- Round Ceiling Cutout: $\varnothing 4 \frac{3}{8}"$



- Square Ceiling Cutout: 4 1/2" x 4 1/2"



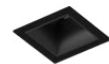
BAFFLE + FLANGE DETAIL

Semi-Diffused Specular Baffle
+ Perfect White Flange
(SD/PW)

Perfect White
Baffle + Flange
(PW/PW)

Black
Baffle + Flange
(BK/BK)

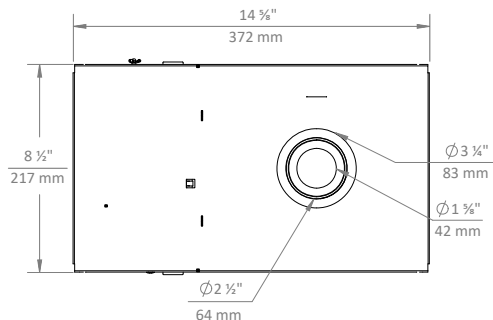
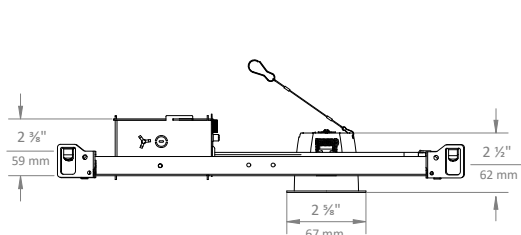
Black Baffle +
Perfect White Flange
(BK/PW)



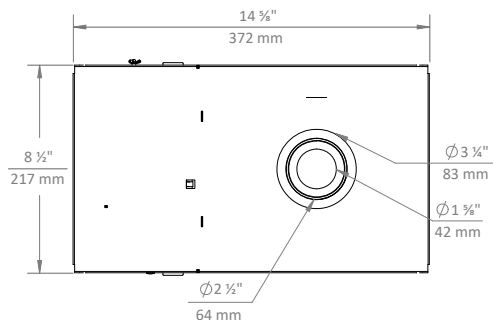
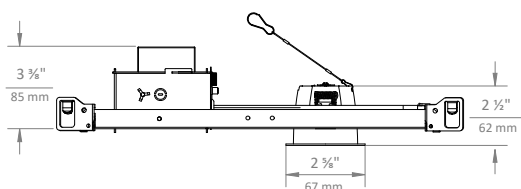
ROUND BDLR4 - NCT : NEW CONSTRUCTION TRAY

Ceiling Cutout : 4 1/8" Diameter

Up to 2000 lm



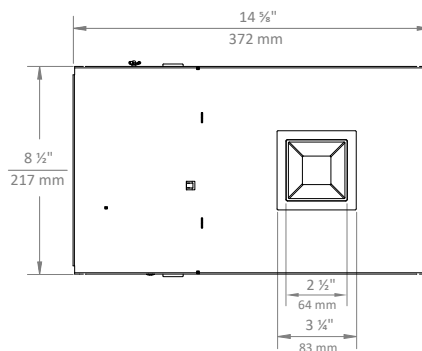
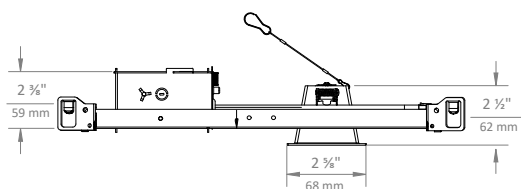
Up to 4000 lm



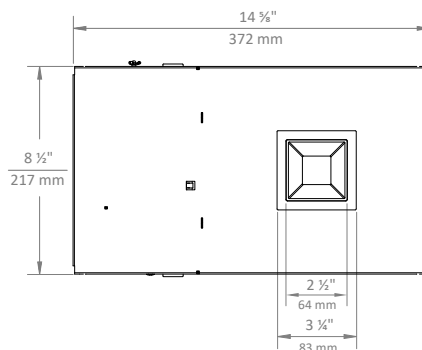
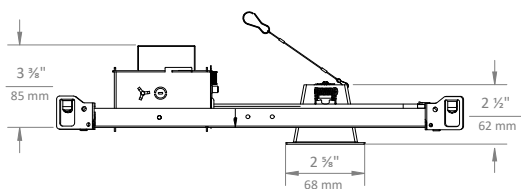
SQUARE BDLS4 - NCT : NEW CONSTRUCTION TRAY

Ceiling Cutout : 4 1/2" x 4 1/2"

Up to 2000 lm



Up to 4000 lm



- NCT Standard mounting brackets: 14" Minimum to 24" Maximum
- NCC Commercial mounting brackets: 10" Minimum to 24" Maximum with 2 3/4" vertical adjustment

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BARITONE NEW CONSTRUCTION 2" ROUND + SQUARE DOWNLIGHT

PHOTOMETRIC DETAILS

NSP - 16° Narrow Spot

Input Power: 8.0 W
Lumens: 597 lm
Efficacy: 75 lm/W
CBCP: 3101 cd
Beam Angle: 15.8°
Field Angle: 43.6°
Spacing Criteria: 0.28
UGR (4H×8H, 70/50/20): 6.0

	0°	45°	90°
0°	3101	3101	3101
5°	2297	2297	2297
10°	1083	1083	1083
15°	534	534	534
20°	337	337	337
25°	244	244	244
30°	184	184	184
35°	116	116	116
40°	56	56	56
45°	24	24	24

NFL - 22° Narrow Spot

Input Power: 8.0 W
Lumens: 585 lm
Efficacy: 73 lm/W
CBCP: 1981 cd
Beam Angle: 22.4°
Field Angle: 58.9°
Spacing Criteria: 0.40
UGR (4H×8H, 70/50/20): 6.6

	0°	45°	90°
0°	1981	1981	1981
5°	1777	1777	1777
10°	1154	1154	1154
15°	576	576	576
20°	350	350	350
25°	254	254	254
30°	186	186	186
35°	124	124	124
40°	57	57	57
45°	31	31	31

FL - 32° Flood

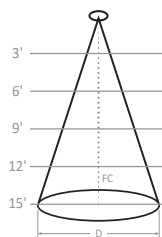
Input Power: 8.0 W
Lumens: 656 lm
Efficacy: 82 lm/W
CBCP: 1733 cd
Beam Angle: 31.7°
Field Angle: 59.0°
Spacing Criteria: 0.57
UGR (4H×8H, 70/50/20): 2.8

	0°	45°	90°
0°	1733	1733	1733
5°	1662	1662	1662
10°	1357	1357	1357
15°	900	900	900
20°	514	514	514
25°	274	274	274
30°	154	154	154
35°	95	95	95
40°	30	30	30
45°	18	18	18

WFL - 61° Wide Flood

Input Power: 8.0 W
Lumens: 758 lm
Efficacy: 95 lm/W
CBCP: 812 cd
Beam Angle: 61.1°
Field Angle: 77.6°
Spacing Criteria: 1.18
UGR (4H×8H, 70/50/20): 7.8

	0°	45°	90°
0°	812	812	812
5°	779	779	779
10°	748	748	748
15°	699	699	699
20°	621	621	621
25°	518	518	518
30°	399	399	399
35°	197	197	197
40°	66	66	66
45°	33	33	33



SP - 19° Spot

Input Power: 15.0 W
Lumens: 1218 lm
Efficacy: 81 lm/W
CBCP: 4486 cd
Beam Angle: 19.2°
Field Angle: 57.7°
Spacing Criteria: 0.34
UGR (4H×8H, 70/50/20): 9.2

	0°	45°	90°
0°	4486	4486	4486
5°	3608	3608	3608
10°	2063	2063	2063
15°	1177	1177	1177
20°	753	753	753
25°	563	563	563
30°	435	435	435
35°	291	291	291
40°	131	131	131
45°	56	56	56

NFL - 25° Narrow Flood

Input Power: 15.0 W
Lumens: 1189 lm
Efficacy: 79 lm/W
CBCP: 3422 cd
Beam Angle: 24.7°
Field Angle: 64.3°
Spacing Criteria: 0.44
UGR (4H×8H, 70/50/20): 9.3

	0°	45°	90°
0°	3422	3422	3422
5°	2984	2984	2984
10°	2181	2181	2181
15°	1298	1298	1298
20°	756	756	756
25°	549	549	549
30°	403	403	403
35°	284	284	284
40°	126	126	126
45°	61	61	61

FL - 33° Flood

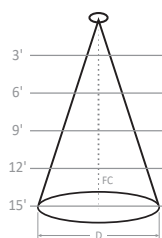
Input Power: 15.0 W
Lumens: 1323 lm
Efficacy: 88 lm/W
CBCP: 3011 cd
Beam Angle: 32.6°
Field Angle: 67.6°
Spacing Criteria: 0.58
UGR (4H×8H, 70/50/20): 6.8

	0°	45°	90°
0°	3011	3011	3011
5°	2828	2828	2828
10°	2316	2316	2316
15°	1684	1684	1684
20°	1126	1126	1126
25°	748	748	748
30°	463	463	463
35°	271	271	271
40°	85	85	85
45°	41	41	41

WFL - 65° Wide Flood

Input Power: 15.0 W
Lumens: 1555 lm
Efficacy: 104 lm/W
CBCP: 1539 cd
Beam Angle: 64.6°
Field Angle: 82.5°
Spacing Criteria: 1.26
UGR (4H×8H, 70/50/20): 10.5

	0°	45°	90°
0°	1539	1539	1539
5°	1535	1535	1535
10°	1498	1498	1498
15°	1416	1416	1416
20°	1283	1283	1283
25°	1097	1097	1097
30°	893	893	893
35°	529	529	529
40°	191	191	191
45°	82	82	82



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TYPE

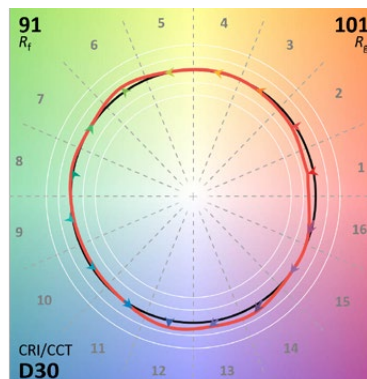
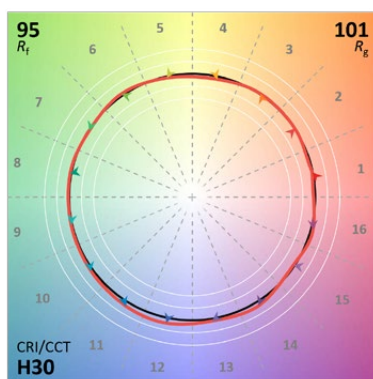
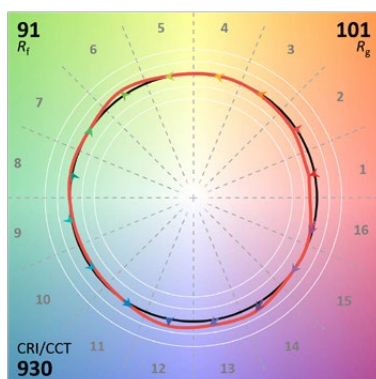
BARITONE NEW CONSTRUCTION
2" ROUND + SQUARE DOWNLIGHT

TM30 COLOR REPORTS

- 3000K with 95 CRI
- $R_A = 95$; $R_g = 62$
- $R_f = 91$; $R_g = 101$

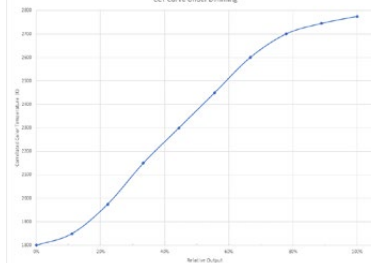
- 3000K with 98+ CRI
- $R_A = 98$; $R_g = 96$
- $R_f = 95$; $R_g = 101$

- 3000K to 1800K with 90+ CRI
- $R_A = 98$; $R_g = 97$
- $R_f = 91$; $R_g = 101$



DIM TO WARM DETAILS | Dim to Warm only available with SP, NFL, FL, and WFL beam spreads @ 16W; 1500 lumens

CCT Curve Under Dimming



SP - 18° Spot

Input Power: 15.5 W
Lumens: 862 lm
Efficacy: 56 lm/W
CBCP: 3465 cd
Beam Angle: 18.3°
Field Angle: 53.7°
Spacing Criteria: 0.32
UGR (4Hx8H, 70/50/20): 8.1

	0°	45°	90°
0°	3465	3465	3465
5°	2819	2819	2819
10°	1568	1568	1568
15°	830	830	830
20°	516	516	516
25°	378	378	378
30°	291	291	291
35°	193	193	193
40°	97	97	97
45°	40	40	40

NFL - 24° Narrow Flood

Input Power: 15.5 W
Lumens: 839 lm
Efficacy: 54 lm/W
CBCP: 2560 cd
Beam Angle: 23.7°
Field Angle: 62.7°
Spacing Criteria: 0.42
UGR (4Hx8H, 70/50/20): 8.5

	0°	45°	90°
0°	2560	2560	2560
5°	2196	2196	2196
10°	1546	1546	1546
15°	870	870	870
20°	508	508	508
25°	366	366	366
30°	268	268	268
35°	184	184	184
40°	88	88	88
45°	48	48	48

FL - 34° Flood

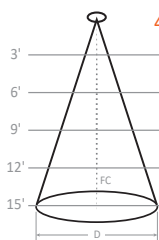
Input Power: 15.5 W
Lumens: 914 lm
Efficacy: 59 lm/W
CBCP: 2029 cd
Beam Angle: 33.9°
Field Angle: 67.2°
Spacing Criteria: 0.61
UGR (4Hx8H, 70/50/20): 5.7

	0°	45°	90°
0°	2029	2029	2029
5°	1949	1949	1949
10°	1601	1601	1601
15°	1165	1165	1165
20°	801	801	801
25°	535	535	535
30°	320	320	320
35°	189	189	189
40°	65	65	65
45°	32	32	32

WFL - 64° Flood

Input Power: 15.5 W
Lumens: 1084 lm
Efficacy: 70 lm/W
CBCP: 1100 cd
Beam Angle: 63.7°
Field Angle: 81.2°
Spacing Criteria: 1.24
UGR (4Hx8H, 70/50/20): 9.4

	0°	45°	90°
0°	1100	1100	1100
5°	1088	1088	1088
10°	1062	1062	1062
15°	1003	1003	1003
20°	903	903	903
25°	760	760	760
30°	609	609	609
35°	369	369	369
40°	122	122	122
45°	57	57	57



3'	0.97' D; 385 FC
6'	1.93' D; 96 FC
9'	2.90' D; 43 FC
12'	3.87' D; 24 FC
15'	4.83' D; 15 FC

3'	1.26' D; 285 FC
6'	2.52' D; 71 FC
9'	3.78' D; 32 FC
12'	5.04' D; 18 FC
15'	6.29' D; 11 FC

3'	1.83' D; 225 FC
6'	3.66' D; 56 FC
9'	5.49' D; 25 FC
12'	7.31' D; 14 FC
15'	9.14' D; 9 FC

3'	3.73' D; 122 FC
6'	7.45' D; 31 FC
9'	11.18' D; 14 FC
12'	14.91' D; 8 FC
15'	18.64' D; 5 FC