

PROJECT

TYPE

SPECIFIER

MEMO

ORDERING CODE BREAKDOWN

BARITONE NEW CONSTRUCTION 4" ROUND + SQUARE DOWNLIGHT

MAIN FEATURES

- Designed for new construction installations
- Delivering up to 4000 lumens at 3500K, 90+ CRI and 41W
- Modular platform with easy maintenance for individual components featuring visual indicator to ensure proper installation prior to module installation.
- Dimming to 1% via Standard Phase-cut or 0-10V or optional 0.1% 0-10V or DALI-2
- Custom TIR optic platform to ensure excellent light control
- Super-shallow installation height of <2.5" and non-conductive baffles
- **Swift Ship** product codes available to ship in 2 days or less!



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	4 : 4"	1 : 0.50" - 1.5"	PW : Perfect White	PW : Perfect White	NSP : Narrow Spot (15°)	9 : 90+ CRI	27 : 2700K	1000 : 10W	UNV : 120-277V, 1% phase-cut/0-10V dimming	NCT : New Construction Tray with Field installed Standard Hangar Bars	CASPC : Casambi Wireless Phase-cut Node
BDLS : Square			BK : Black	BK : Black	NFL : Narrow Flood (25°)	D ³ : Dim-to-Warm (98 CRI)	30 : 3000K	1500 : 15W	UDA : 120-277V, 0.1% Logarithmic DALI-2/D4i dimming	NCC : New Construction Tray with Field installed Commercial Hangar Bars with mounting brackets for vertical adjustment	CAS10 : Casambi Wireless 0-10V Node
			SD : Semi-diffused	SD : Semi-diffused	FL : Flood (40°)		35 : 3500K	2000 : 20W			CAS : Casambi Wireless DALI-2 Node
			PWEM ² : White w/ integral EM test switch		WFL : Wide Flood (60°)		40 : 4000K	2500 : 26W			AWN ¹² : Lutron Athena Wireless DALI-2 Node
			BKEM ² : Black w/ integral EM test switch		VFL : Very Wide Flood (95°)		50 : 5000K	3000 : 33W			LEV : Leviton Intellect DALI-2 Node
			SD ¹² : Semi-diffused w/ integral EM test switch					3500 : 40W 4000 : 46W 1400 ³ : 21W (Dim-to-Warm only)			WAT : Wattstopper/ Encelium Wireless DALI-2 Node
										RM : Remodel	EM ¹² : 10W Integrated Emergency Battery Backup

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.

SwiftShip 2-day shipping options are denoted with orange highlight; visit solais.com/swiftship to confirm specific product code, availability, and terms.



OPTICS + PERFORMANCE

- 4 custom beam spreads available
 - Narrow Spot - 15°
 - Narrow Flood - 25°
 - Very Wide Flood - 95°
- Performance packages
 - 10W; 1000 lumens
 - 15W; 1500 lumens
 - 20W; 2000 lumens
 - 26W; 2500 lumens
 - 21W; 1400 lumens (*dim-to-warm only*)
- Color Temperatures
 - 90+ CRI Standard: 2700K, 3000K, 3500K, 4000K, 5000K
 - Dim-to-Warm: 98 CRI, 3000K to 1800K
- 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

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*)

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)

POWER + CONTROLS

- Universal Input: 120-277V
- Proprietary Solais driver provides phase-cut or 0-10V dimming <1%
- Pre-installed 10W emergency battery backup with built-in, integral trim test switch option; no need for remote wiring
- Casambi and Lutron wireless controls available
- Consult factory for longer EM runtime options.

RATINGS + CERTIFICATIONS

- IC rated up to 2500 lumens/22W (without enclosure), Non-IC 3000+ lumens/25+W
- Emergency Battery pack is California Title 20 compliant
- ETL listed; conforming to UL safety standards
- Wet location rated; approved for use in showers and outdoors with covered canopy
- Contain no lead or mercury

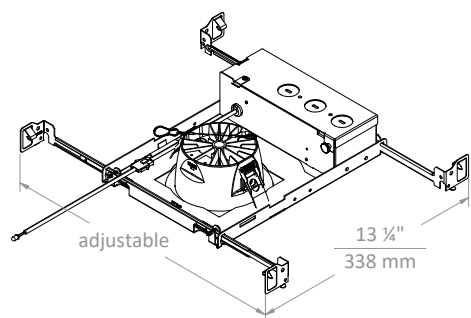
WARRANTY

- 5-year warranty

HANGING BARS DIMENSIONAL DETAILS

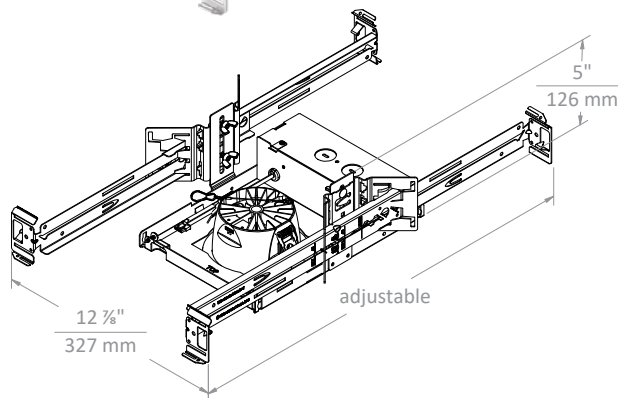
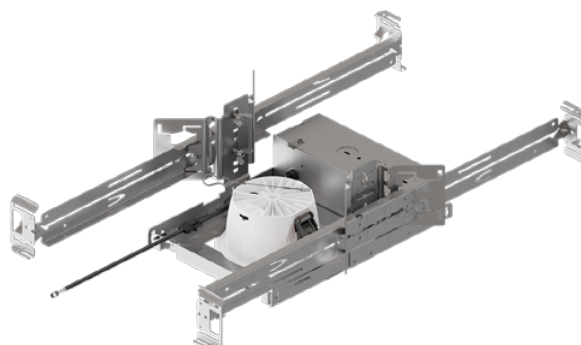
Standard Hanging Bars (NCT)

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



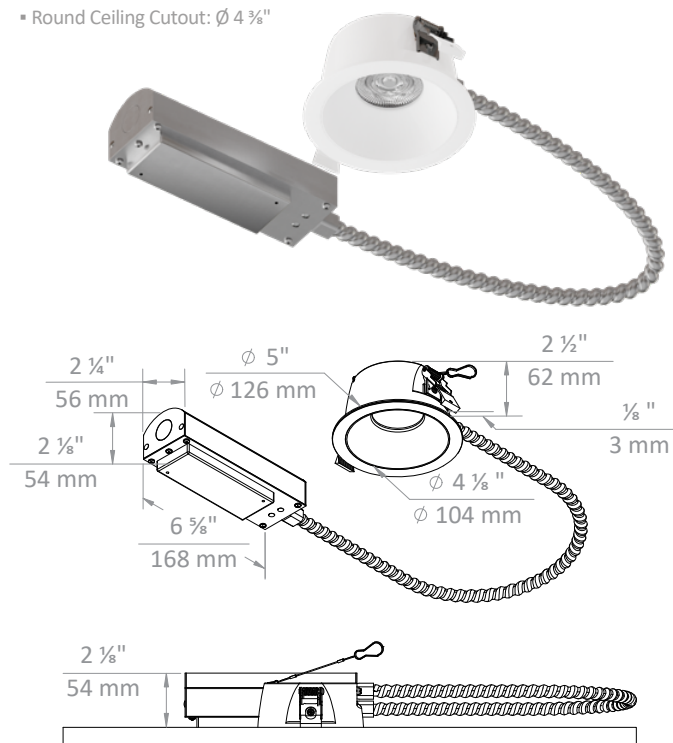
Commercial Hanging Bars (NCC)

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

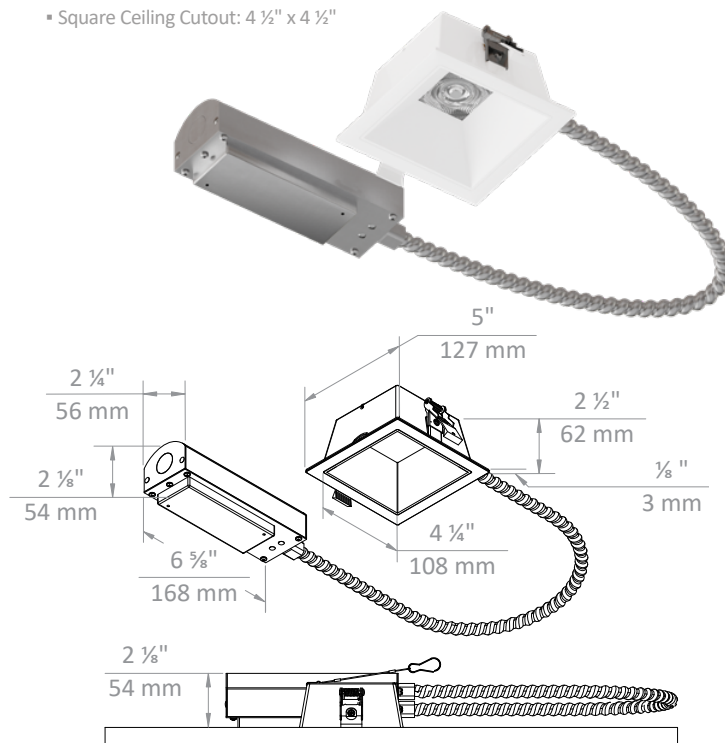


REMODEL DIMENSIONAL DETAILS

▪ Round Ceiling Cutout: $\phi 4 \frac{3}{8}"$



▪ Square Ceiling Cutout: $4 \frac{1}{2}" \times 4 \frac{1}{2}"$



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)

Semi-Diffused Specular
Baffle + Flange
(SD/SD)



BAFFLE + FLANGE DETAIL (WITH INTEGRAL EM)

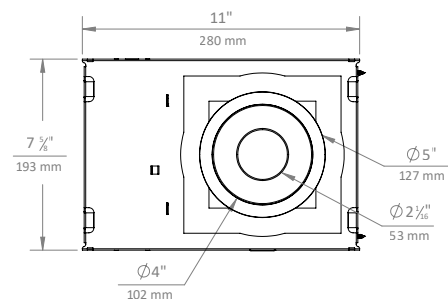
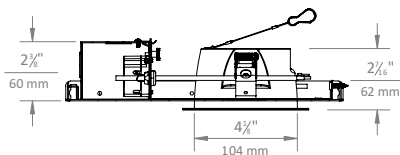


Remote EM required for
Semi-Diffused Specular
Baffle + Flange

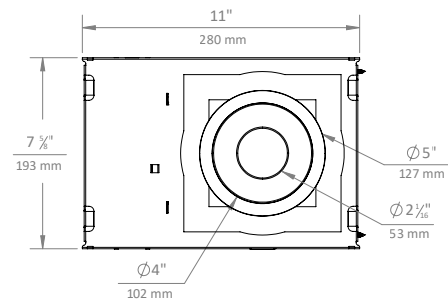
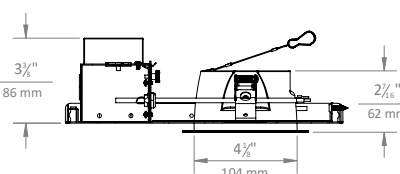
BDLR4 - ROUND DIMENSIONAL DETAILS

Ceiling Cutout : 4 3/8" Diameter

UNV2 (1000-1500 lm) + UNV3 (2000-2500 lm)

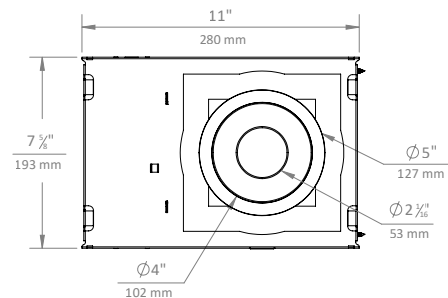
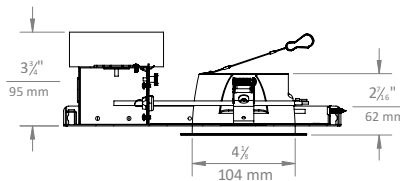
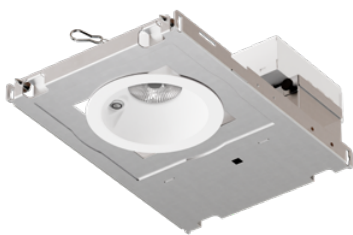


UNV5 (3000+ lm)

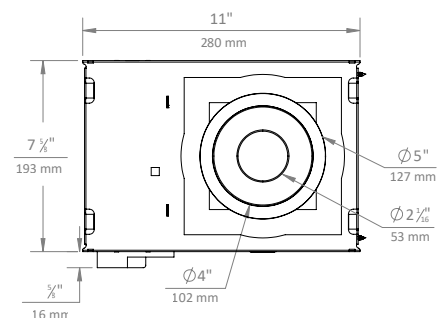
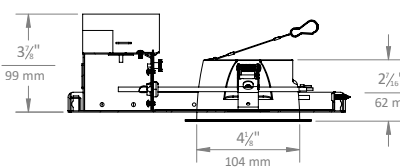
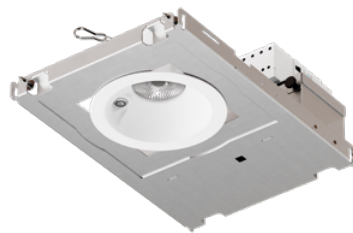


WITH EMERGENCY BATTERY BACKUP

UNV2 (1000-1500 lm) + UNV3 (2000-2500 lm)



UNV5 (3000+ lm)

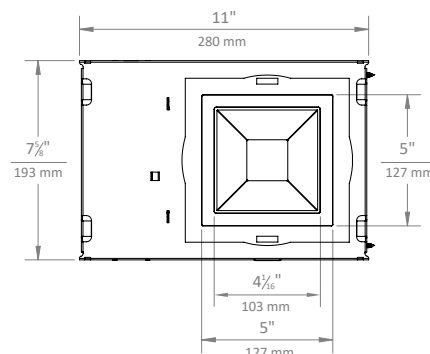
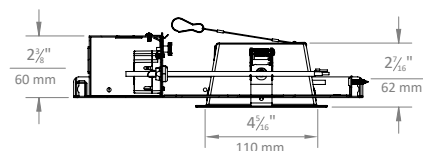
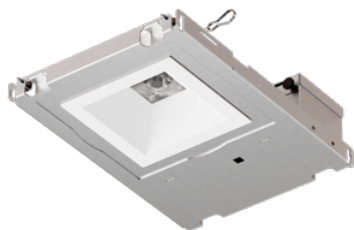


- NCT Standard mounting brackets: 14" Minimum to 24" Maximum
- NCC Commercial mounting brackets: 10" Minimum to 24" Maximum with 2 3/4" vertical adjustment

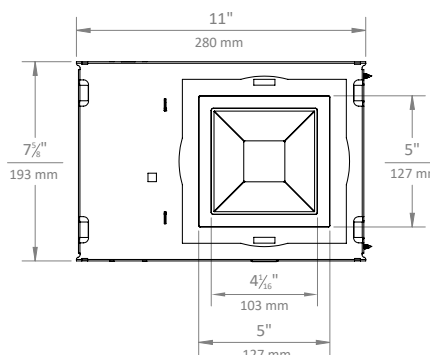
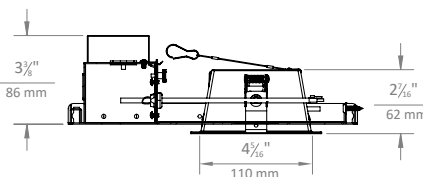
BDLS4 - SQUARE DIMENSIONAL DETAILS

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

UNV2 (1000-1500 lm) + UNV3 (2000-2500 lm)

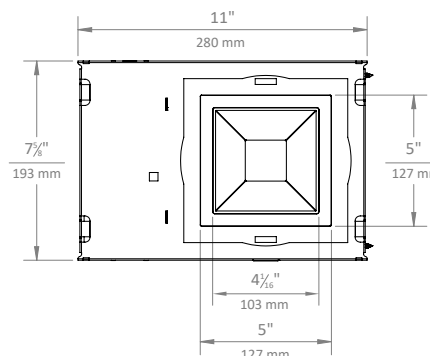
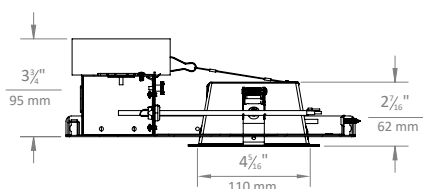
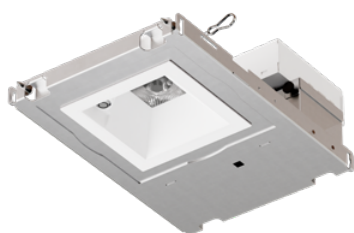


UNV5 (3000+ lm)

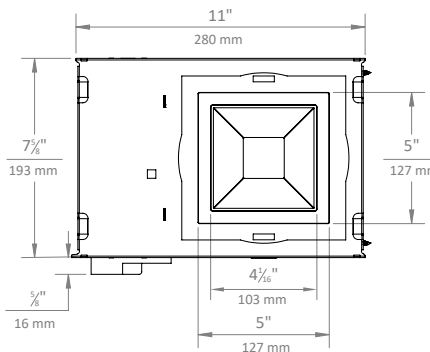
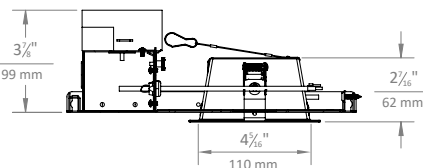
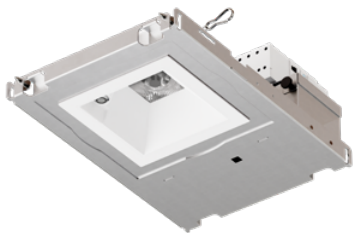


WITH EMERGENCY BATTERY BACKUP

UNV2 (1000-1500 lm) + UNV3 (2000-2500 lm)



UNV5 (3000+ 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

PROJECT _____

TYPE _____

BARITONE NEW CONSTRUCTION
4" ROUND + SQUARE DOWNLIGHT

PHOTOMETRIC DETAILS | baseline X output multiplier X cri-cct multiplier = final output

Baseline data shown below for 20W, 2000 lumens, 90+ CRI , 3000K

NSP - 16° Narrow Spot

Input Power: 20.0 W
Lumens: 1787 lm
Efficacy: 89 lm/W
CBCP: 7389 cd
Beam Angle: 16.1°
Field Angle: 40.7°
Spacing Criteria: 0.28

∠	0°	45°	90°
0°	7337	7337	7337
5°	5107	5155	5834
10°	2152	2199	2827
15°	1092	1096	1281
20°	721	718	787
25°	506	508	548
30°	376	379	403
35°	273	276	294
40°	194	196	211
45°	135	138	151

NFL - 26° Narrow Flood

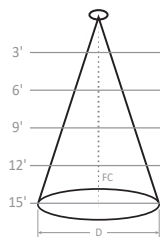
Input Power: 20.0 W
Lumens: 1683 lm
Efficacy: 84 lm/W
CBCP: 3486 cd
Beam Angle: 25.9°
Field Angle: 64.5°
Spacing Criteria: 0.46

∠	0°	45°	90°
0°	3478	3478	3478
5°	3118	3086	3246
10°	2172	2113	2410
15°	1216	1158	1401
20°	686	671	758
25°	483	477	517
30°	374	371	396
35°	290	287	310
40°	224	222	239
45°	174	172	186

FL - 43° Flood

Input Power: 20.0 W
Lumens: 1804 lm
Efficacy: 90 lm/W
CBCP: 2395 cd
Beam Angle: 43.4°
Field Angle: 70.6°
Spacing Criteria: 0.79

∠	0°	45°	90°
0°	2392	2392	2392
5°	2339	2323	2346
10°	2192	2161	2215
15°	1878	1828	1937
20°	1338	1261	1440
25°	750	681	833
30°	394	360	438
35°	227	206	246
40°	137	126	149
45°	88	84	95



WFL - 55° Wide Flood

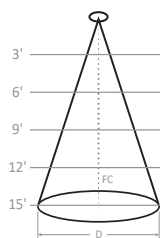
Input Power: 20.0 W
Lumens: 2074 lm
Efficacy: 104 lm/W
CBCP: 1815 cd
Beam Angle: 55.5°
Field Angle: 91.6°
Spacing Criteria: 1.05

∠	0°	45°	90°
0°	1806	1806	1806
5°	1738	1737	1771
10°	1605	1608	1668
15°	1430	1426	1515
20°	1197	1189	1293
25°	957	949	1053
30°	717	706	814
35°	466	453	547
40°	284	275	341
45°	165	157	200

VFL - 95° Very Wide Flood

Input Power: 20.0 W
Lumens: 1896 lm
Efficacy: 95 lm/W
CBCP: 922 cd
Beam Angle: 96.3°
Field Angle: 125.0°
Spacing Criteria: 2.23

∠	0°	45°	90°
0°	921	921	921
5°	913	912	914
10°	894	893	898
15°	866	865	870
20°	827	828	834
25°	778	781	788
30°	722	726	732
35°	654	662	666
40°	581	591	590
45°	502	512	510



CRI-CCT MULTIPLIER

CCT	90+ CRI
2700K	0.97
3000K	1.00
3500K	1.02
4000K	1.03
5000K	1.04

BDL4 OUTPUT MULTIPLIER

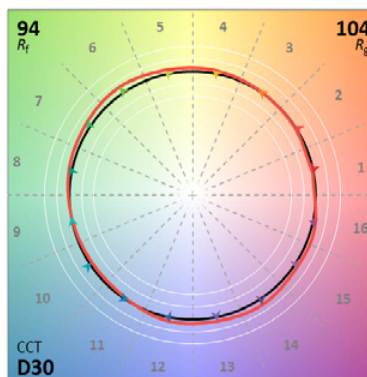
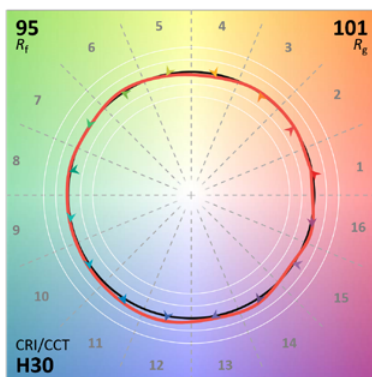
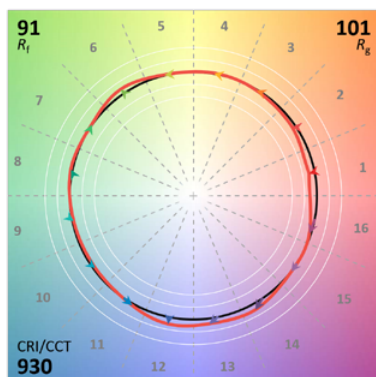
Package	Multiplier
10W 1000 lm	0.54
15W 1500 lm	0.75
20W 2000 lm	1.00
26W 2500 lm	1.25
33W 3000 lm	1.53
40W 3500 lm	1.74
46W 4000 lm	1.91

TM30 COLOR REPORTS

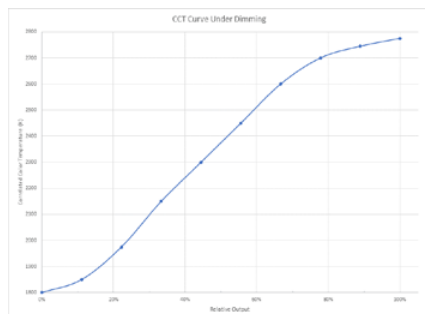
- 3000K with 95 CRI
- $R_A = 95$; $R_g = 62$
- $R_f = 91$; $R_g = 101$

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

- 3000K to 1800K with 90+ CRI
- $R_A = 95$; $R_g = 62$
- $R_f = 94$; $R_g = 104$



DIM TO WARM DETAILS | Dim to Warm only available with NFL, FL, WFL, and VFL beam spreads @ 21W; 1400 lumens



NFL - Narrow Flood

Input Power: 21.0 W
Lumens: 1168 lm
Efficacy: 56 lm/W
CBCP: 2006 cd
Beam Angle: 33.1°
Field Angle: 91.2°
Spacing Criteria: 0.59

∠	0°	45°	90°
0°	2005	2005	2005
5°	1887	1909	1929
10°	1577	1563	1562
15°	1113	1123	1130
20°	689	698	707
25°	462	459	458
30°	363	359	358
35°	302	299	298
40°	251	248	249
45°	205	203	204

FL - Flood

Input Power: 21.0 W
Lumens: 1233 lm
Efficacy: 59 lm/W
CBCP: 1603 cd
Beam Angle: 47.4°
Field Angle: 88.2°
Spacing Criteria: 0.88

∠	0°	45°	90°
0°	1602	1602	1602
5°	1563	1568	1575
10°	1473	1473	1484
15°	1306	1309	1317
20°	1029	1031	1049
25°	698	702	717
30°	470	473	481
35°	306	307	314
40°	208	207	212
45°	144	144	148

WFL - Wide Flood

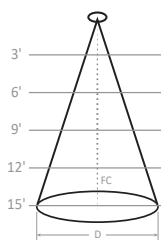
Input Power: 21.0 W
Lumens: 1398 lm
Efficacy: 67 lm/W
CBCP: 1199 cd
Beam Angle: 65.5°
Field Angle: 102.8°
Spacing Criteria: 1.29

∠	0°	45°	90°
0°	1199	1199	1199
5°	1183	1184	1184
10°	1142	1145	1147
15°	1088	1089	1097
20°	969	971	988
25°	826	829	846
30°	681	682	690
35°	507	508	507
40°	357	357	359
45°	239	239	244

VFL - Very Wide Flood

Input Power: 21.0 W
Lumens: 1189 lm
Efficacy: 57 lm/W
CBCP: 576 cd
Beam Angle: 97.8°
Field Angle: 126.7°
Spacing Criteria: 2.29

∠	0°	45°	90°
0°	575	575	575
5°	572	571	571
10°	561	560	560
15°	544	543	543
20°	521	520	521
25°	493	493	493
30°	459	460	461
35°	421	422	424
40°	378	380	383
45°	332	335	337



3'	1.78' D; 156 FC	2.63' D; 125 FC	3.86' D; 93 FC	6.88' D; 45 FC
6'	3.57' D; 39 FC	5.27' D; 31 FC	7.72' D; 23 FC	13.76' D; 11 FC
9'	5.35' D; 17 FC	7.90' D; 14 FC	11.58' D; 10 FC	20.63' D; 5 FC
12'	7.13' D; 10 FC	10.54' D; 8 FC	15.44' D; 6 FC	27.51' D; 3 FC
15'	8.91' D; 6 FC	13.17' D; 5 FC	19.30' D; 4 FC	34.39' D; 2 FC