

PROJECT

TYPE

SPECIFIER

MEMO

ORDERING CODE BREAKDOWN

BARITONE NEW CONSTRUCTION 6" ROUND + SQUARE DOWNLIGHT

MAIN FEATURES

- Designed for new construction installations
- Delivering up to 4500 lumens at 3500K, 90+ CRI and 46W
- 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	6 : 6"	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 : 14W	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 : 19W			CAS : Casambi Wireless DALI-2 Node
			PWEM ² : White w/ integral EM test switch		WFL : Wide Flood (60°)		40 : 4000K	2500 : 21W			AWN ² : Lutron Athena Wireless DALI-2 Node
			BKEM ² : Black w/ integral EM test switch		VFL : Very Wide Flood (95°)		50 : 5000K	3000 : 26W			LEV : Leviton Intellect DALI-2 Node
			SDEM ¹² : Semi-diffused w/ integral EM test switch					3500 : 33W 4000 : 40W 4500 : 46W			WAT : Wattstopper/ Encelium Wireless DALI-2 Node
								1400 ³ : 21W (Dim-to-Warm only)			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.



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OPTICS + PERFORMANCE

- 4 custom beam spreads available
 - Narrow Spot - 15°
 - Narrow Flood - 25°
 - Very Wide Flood - 95°
- Performance packages
 - 10W; 1000 lumens
 - 14W; 1500 lumens
 - 19W; 2000 lumens
 - 21W; 2500 lumens
 - 21W; 1400 lumens (*dim-to-warm only*)
 - 26W; 3000 lumens
 - 33W; 3500 lumens
 - 40W; 4000 lumens
 - 46W; 4500 lumens
- 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 4.25 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%
- Preinstalled 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

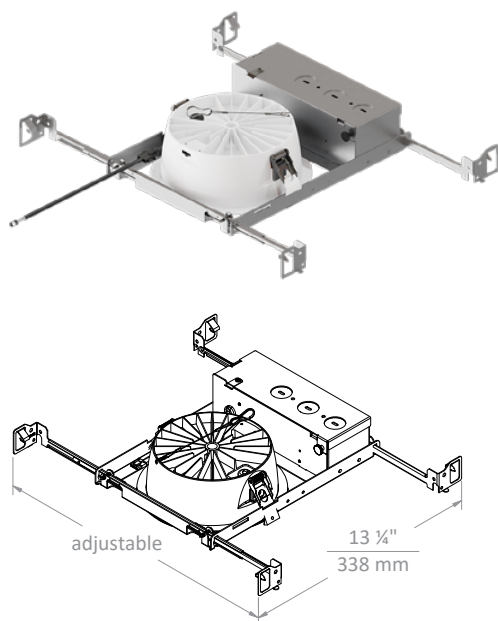
WARRANTY

- 5-year warranty

HANGING BARS DIMENSIONAL DETAILS

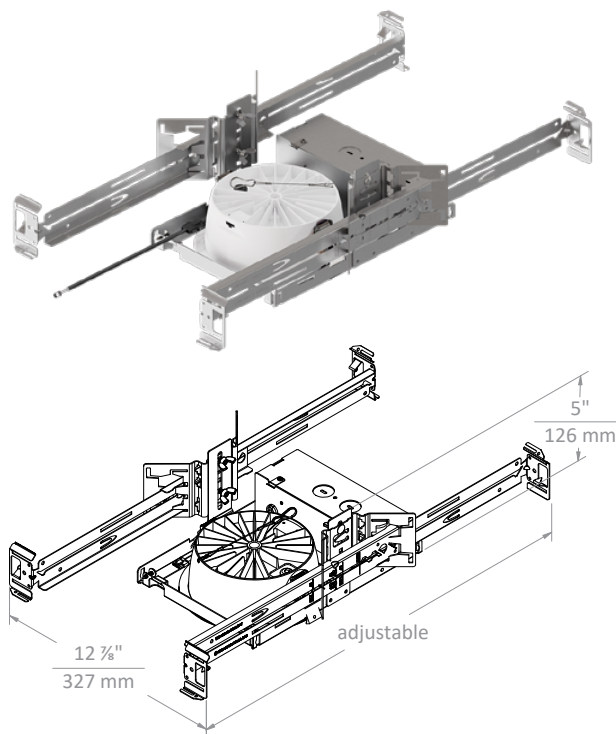
Standard Hanging Bars (NCT)

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



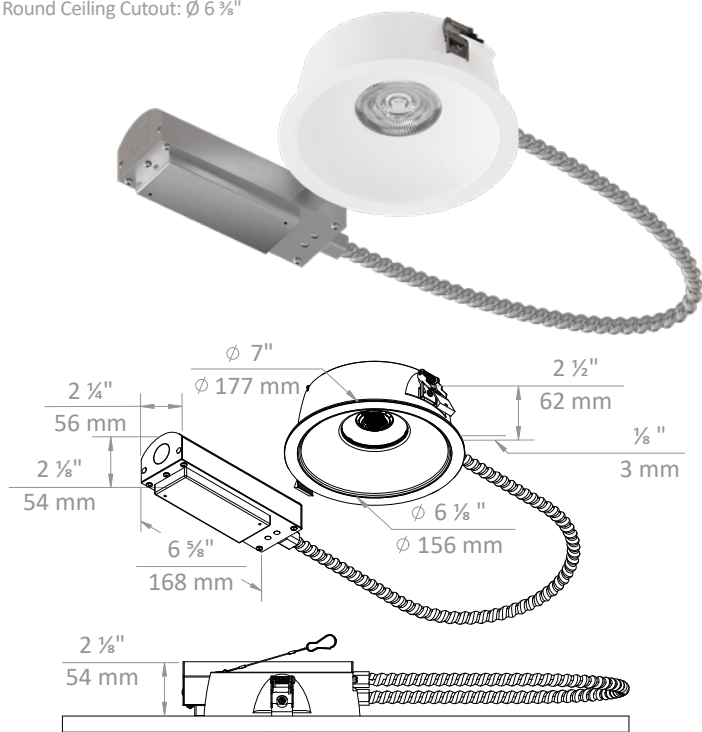
Commercial Hanging Bars (NCC)

- NCC (7.2 lbs.)
- Commercial mounting brackets: 10" Minimum to 24" Maximum with 2 3/4" vertical adjustment

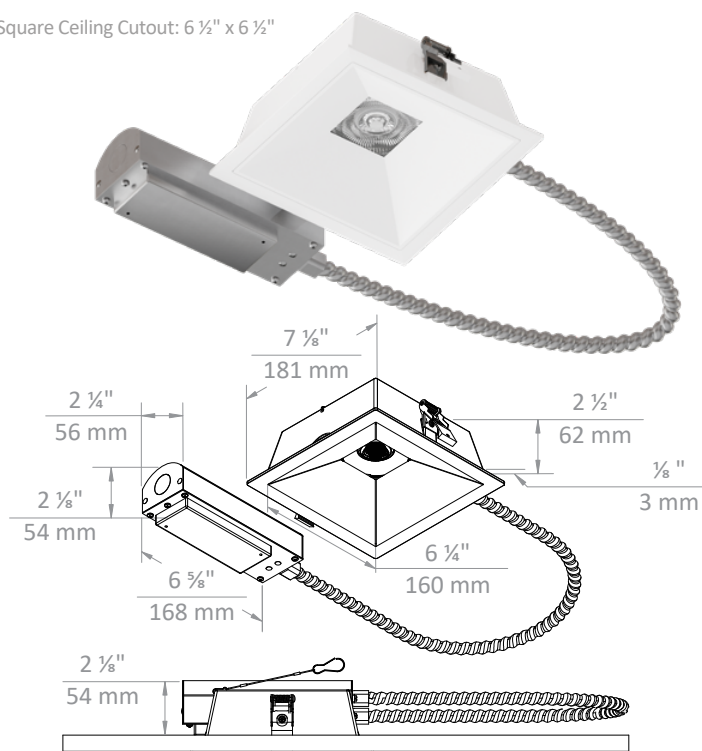


REMODEL DIMENSIONAL DETAILS

▪ Round Ceiling Cutout: $\phi 6 \frac{1}{8}"$



▪ Square Ceiling Cutout: $6 \frac{1}{2}" \times 6 \frac{1}{2}"$



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)

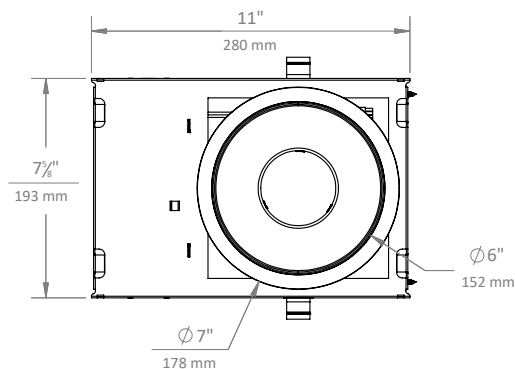
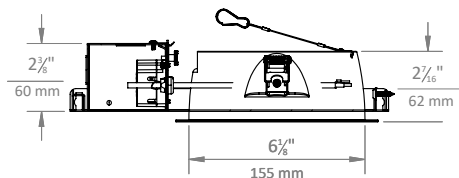
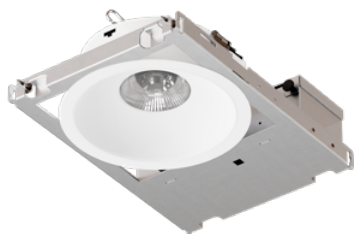


Remote EM required for
Semi-Diffused Specular
Baffle + Flange

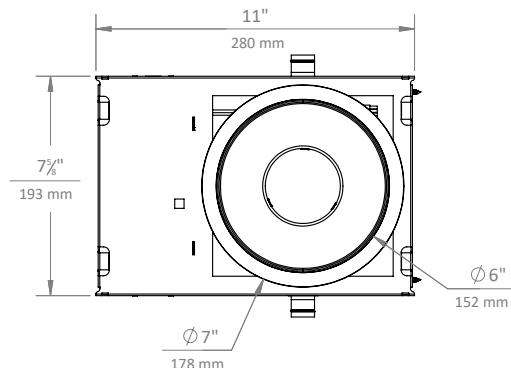
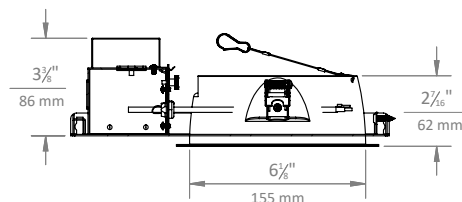
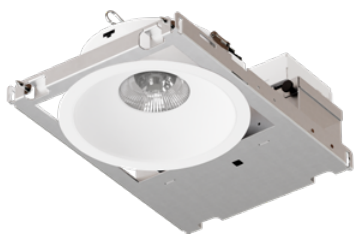
BDLR6 - ROUND DIMENSIONAL DETAILS

Ceiling Cutout : 6 3/8" Diameter

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

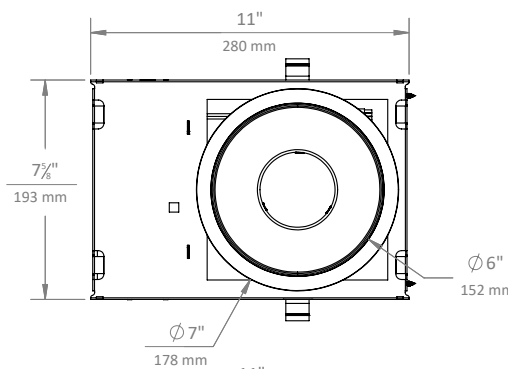
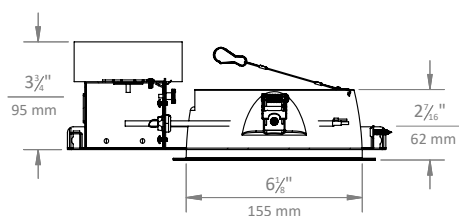
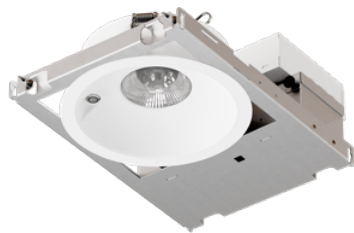


UNV5 (3000+ lm)

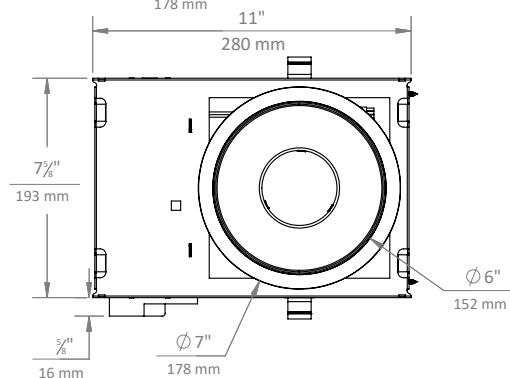
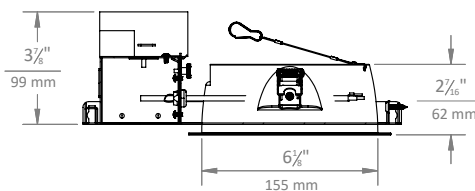
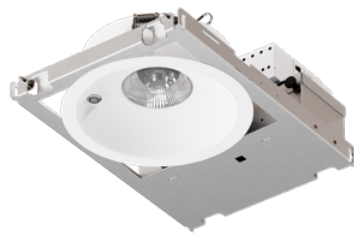


WITH EMERGENCY BATTERY BACKUP

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



UNV5 (3000+ lm)

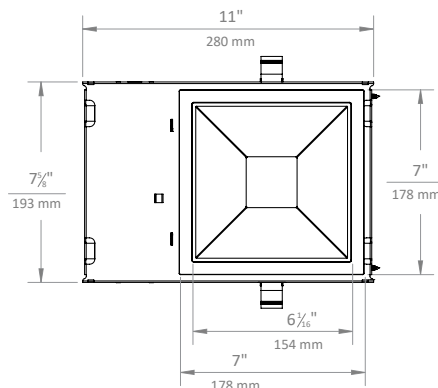
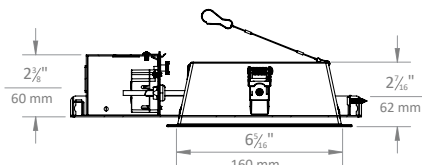


- NCT Standard mounting brackets: 14" Minimum to 24" Maximum
- NCC Commercial mounting brackets: 10" Minimum to 24" Maximum with 2 3/4" vertical adjustment

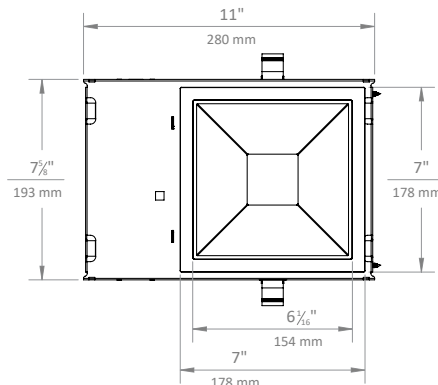
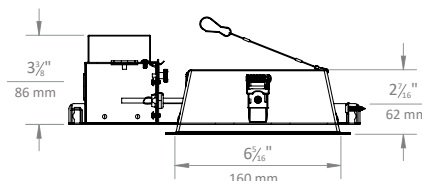
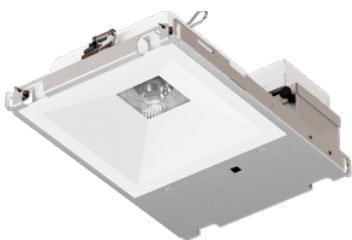
BDLS6 - SQUARE DIMENSIONAL DETAILS

Ceiling Cutout : 6 1/2" x 6 1/2"

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

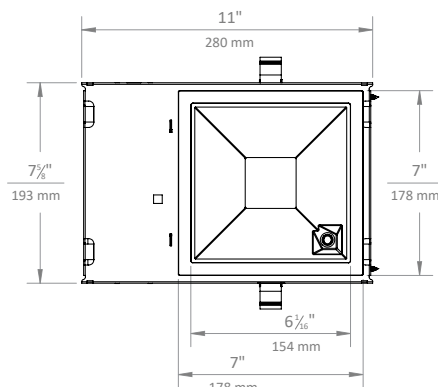
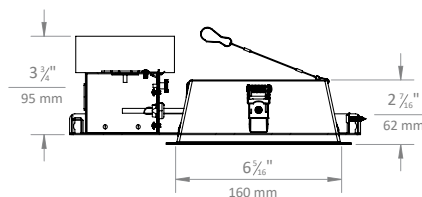


UNV5 (3000+ lm)

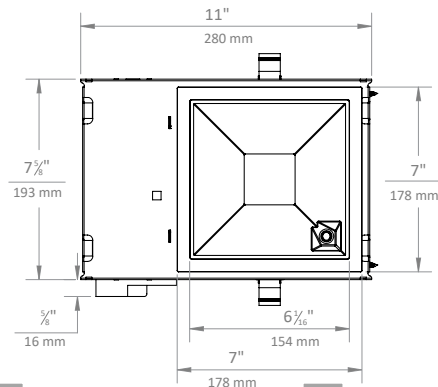
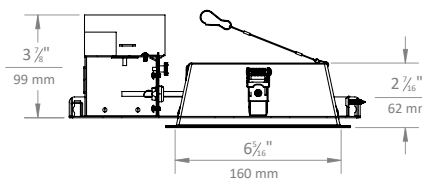
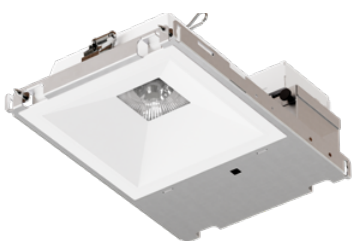


WITH EMERGENCY BATTERY BACKUP

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



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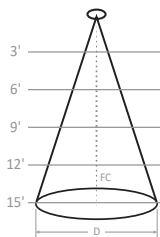
PHOTOMETRIC DETAILS | baseline X output multiplier X cri-cct multiplier = final output

Baseline data shown below for 19W, 2000 lumens, 90+ CRI , 3000K

NSP - 19° Narrow Spot

Input Power: 19.0 W
Lumens: 1904 lm
Efficacy: 95 lm/W
CBCP: 7029 cd
Beam Angle: 18.8°
Field Angle: 43.3°
Spacing Criteria: 0.33

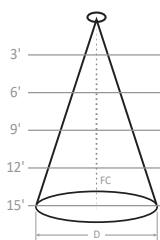
∠	0°	45°	90°
0°	7029	7029	7029
5°	6380	6213	6084
10°	3254	2783	2786
15°	1275	1193	1175
20°	784	772	777
25°	547	545	547
30°	425	421	424
35°	324	319	326
40°	250	245	249
45°	191	186	189



WFL - 60° Wide Flood

Input Power: 19.0 W
Lumens: 2214 lm
Efficacy: 111 lm/W
CBCP: 1715 cd
Beam Angle: 59.7°
Field Angle: 104.0°
Spacing Criteria: 1.15

∠	0°	45°	90°
0°	1714	1714	1714
5°	1677	1674	1676
10°	1583	1577	1583
15°	1457	1450	1455
20°	1280	1270	1276
25°	1061	1051	1052
30°	849	837	837
35°	640	629	630
40°	453	444	443
45°	306	300	299



NFL - 28° Narrow Flood

Input Power: 19.0 W
Lumens: 1691 lm
Efficacy: 85 lm/W
CBCP: 3199 cd
Beam Angle: 28.1°
Field Angle: 75.9°
Spacing Criteria: 0.5

∠	0°	45°	90°
0°	3196	3196	3196
5°	2970	2983	3016
10°	2268	2228	2323
15°	1470	1415	1484
20°	870	857	871
25°	597	585	586
30°	461	450	447
35°	371	360	357
40°	297	287	283
45°	238	229	227

VFL - 95° Very Wide Flood

Input Power: 19.0 W
Lumens: 2008 lm
Efficacy: 106 lm/W
CBCP: 977 cd
Beam Angle: 96.3°
Field Angle: 125.1°
Spacing Criteria: 2.23

∠	0°	45°	90°
0°	976	976	976
5°	968	967	969
10°	948	947	952
15°	918	917	922
20°	877	878	884
25°	825	828	835
30°	765	770	776
35°	693	702	706
40°	616	626	625
45°	532	543	541

3'	0.99' D; 547 FC	1.50' D; 249 FC	2.34' D; 203 FC
6'	1.99' D; 137 FC	3.00' D; 62 FC	4.68' D; 51 FC
9'	2.98' D; 61 FC	4.50' D; 28 FC	7.02' D; 23 FC
12'	3.97' D; 34 FC	5.99' D; 16 FC	9.36' D; 13 FC
15'	4.97' D; 22 FC	7.49' D; 10 FC	11.70' D; 8 FC

FL - 43° Flood

Input Power: 19.0 W
Lumens: 1924 lm
Efficacy: 96 lm/W
CBCP: 2611 cd
Beam Angle: 42.6°
Field Angle: 77.0°
Spacing Criteria: 0.78

∠	0°	45°	90°
0°	2610	2610	2610
5°	2561	2553	2560
10°	2348	2331	2358
15°	1960	1936	1973
20°	1445	1430	1457
25°	925	919	936
30°	569	564	574
35°	349	344	353
40°	226	221	228
45°	151	147	152

CRI-CCT MULTIPLIER

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

OUTPUT MULTIPLIER

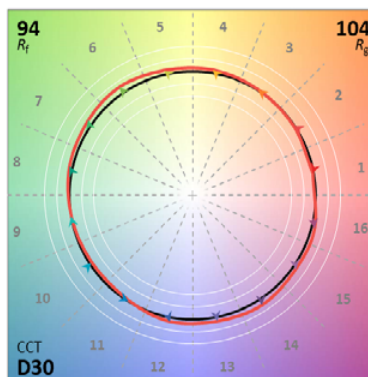
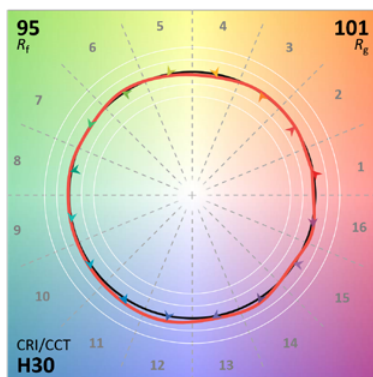
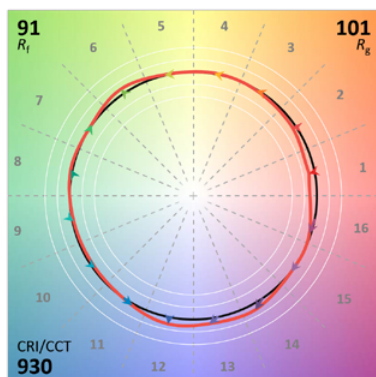
Package	Multiplier
10W 1000 lm	0.54
14W 1500 lm	0.75
19W 2000 lm	1.00
21W 2500 lm	1.25
26W 3000 lm	1.32
33W 3500 lm	1.62
40W 4000 lm	1.86
46W 4500 lm	2.05

TM30 COLOR REPORTS

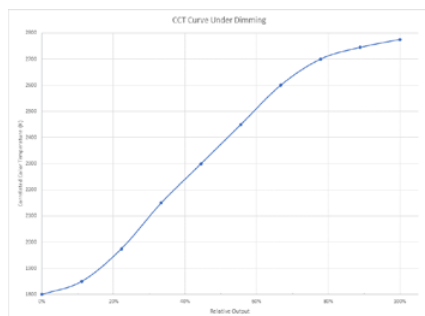
- 3000K with 95 CRI
- $R_A = 95$; $R_g = 62$
- $R_f = 91$; $R_g = 101$

- 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: 1424 lm
Efficacy: 68 lm/W
CBCP: 3412 cd
Beam Angle: 27.2°
Field Angle: 68.0°
Spacing Criteria: 0.48

∠	0°	45°	90°
0°	3412	3412	3412
5°	3120	3173	3214
10°	2476	2439	2453
15°	1501	1485	1530
20°	810	806	791
25°	549	544	535
30°	416	415	411
35°	325	327	323
40°	251	250	248
45°	193	191	190

FL - Flood

Input Power: 21.0 W
Lumens: 1532 lm
Efficacy: 73 lm/W
CBCP: 2488 cd
Beam Angle: 41.9°
Field Angle: 75.2°
Spacing Criteria: 0.77

∠	0°	45°	90°
0°	2487	2487	2487
5°	2441	2433	2431
10°	2242	2225	2229
15°	1866	1856	1859
20°	1386	1365	1352
25°	878	862	842
30°	537	525	516
35°	328	318	315
40°	208	201	199
45°	136	132	131

WFL - Wide Flood

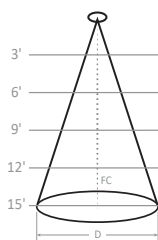
Input Power: 21.0 W
Lumens: 1664 lm
Efficacy: 79 lm/W
CBCP: 1526 cd
Beam Angle: 61.1°
Field Angle: 103.7°
Spacing Criteria: 1.18

∠	0°	45°	90°
0°	1524	1524	1524
5°	1490	1483	1485
10°	1413	1399	1404
15°	1308	1293	1298
20°	1159	1145	1148
25°	973	958	965
30°	782	767	778
35°	586	576	586
40°	409	403	409
45°	275	270	274

VFL - Very Wide Flood

Input Power: 21.0 W
Lumens: 1454 lm
Efficacy: 69 lm/W
CBCP: 647 cd
Beam Angle: 98.3°
Field Angle: 142.4°
Spacing Criteria: 2.31

∠	0°	45°	90°
0°	647	647	647
5°	642	642	643
10°	629	629	630
15°	607	608	610
20°	580	581	582
25°	547	549	549
30°	508	512	511
35°	466	470	468
40°	419	424	420
45°	368	375	370



1.45' D; 265 FC
2.90' D; 66 FC
4.35' D; 30 FC
5.81' D; 17 FC
7.26' D; 11 FC

2.30' D; 193 FC
4.59' D; 48FC
6.89' D; 22 FC
9.19' D; 12 FC
11.49' D; 8 FC

3.54' D; 119 FC
7.08' D; 30 FC
10.62' D; 13 FC
14.17' D; 7 FC
17.71' D; 5 FC

6.94' D; 50 FC
13.88' D; 13 FC
20.82' D; 6 FC
27.76' D; 3 FC
34.69' D; 2 FC