SOLAIS®

SPECIFICATION CODE

PROJECT TYPE

SPECIFIER MEMO

ORDERING CODE BREAKDOWN

ST3Arm

REMODEL | NEW CONSTRUCTION
STRETTA ADJUSTABLE 3" DOWNLIGHT

MAIN FEATURES

- Designed for remodel installation; new construction tray and Chicago plenum/airtight housing optional
- 95 CRI Standard; 98+ CRI option available
- Delivering up to 2000 lumens at 3000K, 95 CRI and 24W
- 40° tilt and 360° rotation for optimal adjustability
- Solais' proprietary driver technology delivers smooth, flicker-free dimming (per IEEE 1789-2015) to 1% via phase-cut or 0-10V
- Custom TIR optic platform to ensure smooth beams and excellent light control with no need for a solite lens
- Modular platform with easy maintenance for individual components
- Fixture accommodates up to 2 accessories. (1 per module and trim)

Round and square with beveled flange shown above.

/ / / / / / / / - -

FIXTURE	COLLAR	TRIM	TRIM FINISH	BEAM SPREAD	CRI	CCT	LUMENS	POWER SUPPLY	INSTALLATION	FIXTURE OPTIONS	OPTIONS
ST3ARM	R1 : Round; 0.5"- 0.75"	BD : Beveled Down Flanged	PW : Perfect White	VNSP[1] : 11°	9 : 95 CRI	22[3] : 2200K	700 : 8W	UNV : 120-277V 1% Phase-cut and 0-10V	NCT : New Construction Tray	CASPC : Casambi Wireless Phase-cut Node	*Module Options (1 max)*
	R2 : Round; 0.75"-1.38"	BDM : Beveled Down Microflange	BK : Black	NSP[12] : 17°	H : 98+ CRI	25[3] : 2500K	1200 : 12W		NCC : New Construction Tray with Commercial Hanging Brackets with field-installed vertical adjustment	CAS10 : Casambi Wireless 0-10V Node	HL : Honeycomb Louver
	S1 : Square; 0.5"-0.75"	BDT : Beveled Down Flangeless	BR : Bronze	NFL : 24°	D[2] : Dim-to-Warm	27 : 2700K	1600 : 18W	UDA : 120-277V 0.1% Logarithmic DALI-2 D4i		CAS : Casambi Wireless DALI-2 Node	LS : Linear Spread Lens
	S2 : Square; 0.75"-1.38"	BA : Beveled Adjustable Flanged	SV : Silver	FL : 38°		30 : 3000K	2000 : 24W		NCH : New Construction CP/IC Housing	AWNR : Lutron Athena Wireless DALI-2 Node	*Trim Options (1 max)*
		BAM : Beveled Adjustable Microflange		WFL : 49		35 : 3500K	1000 : 16W *(Dim-to-Warm Only)*		RM : Remodel Floating J-box	LEV : Leviton Intellect DALI-2 Node	ST : Solite Lens
		BAT : Beveled Adjustable Flangeless				40 : 4000K				WAT : Wattstopper/ Encelium Wireless DALI-2 Node	CT : Clear Lens
		FD : Flat Pinhole Down Flanged				50 : 5000K				EM : 10W Integrated Emergency Battery Backup	LT : Linear Spread Lens
		FDM : Flat Pinhole Down Microflange									WT : Wide Flood Lens
		FDT : Flat Pinhole Down Flangeless									
		BW : Beveled WW Flanged									
		BWM : Beveled WW Microflange									
		BWT : Beveled WW Flangeless									

Notes:
[1]VNSP and NSP options are 90+ CRI when selecting '9'
[2]Dim to Warm is 1000 lumens, 16W, 98+ CRI, 3000K to 1800K; Unavailable with NSP
[3]2200K, 2500K are only available with '9' and are 90+ CRI
Collar color will be matched to trim finish selection
Solais recommends no lens on trim for best performance

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ST3Arm

REMODEL | NEW CONSTRUCTION
STRETTA ADJUSTABLE 3" DOWNLIGHT

OPTICS + PERFORMANCE
- 6 custom beam spreads available
  - Very Narrow Spot - 11°
  - Narrow Spot - 17°
  - Narrow Flood - 24°
  - Flood - 38°
  - Wide Flood - 49°
  - Very Wide Flood - 67°
- 5 performance packages
  - 8W; 700 lumens
  - 12W; 1200 lumens
  - 16W; 1000 lumens (dim-to-warm-only)
  - 18W; 1600 lumens
  - 24W; 2400 lumens
- Color Temperatures
  - 95 and 98+ CRI: 2200K, 2500K, 2700K, 3000K, 3500K, 4000K, 5000K
  - Dim to Warm: 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 + COLLAR OFFERINGS
- Shapes: Round or Square
- Ceilings: gypsum, wood, t-bar, specialty, other
- Ceiling Thicknesses: ½" - ¾", ¾" - 1⅛"
- Standard trim colors *(consult factory for custom)*:
  - White: RAL 9003
  - Black: RAL 9005
  - Bronze: RAL 8017
- Beveled , adjustable, or flat pinhole with ½" flange, ¼" microflange or flangeless/trimless

CONSTRUCTION + FINISH
- Weight 2.4 lbs. *(remodel)*
- Die-cast aluminum alloy housing for optimal thermal performance

POWER + CONTROLS
- Universal Input: 120-277V
- Proprietary Solais driver provides phase-cut or 0-10V dimming <1%

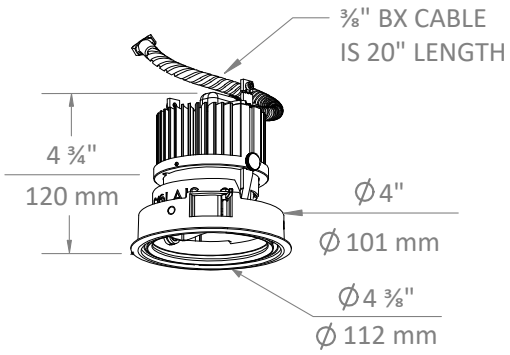
RATINGS + CERTIFICATIONS
- IC rated for remodel installations ≤1000 lumens without tray or housing; else IC rated with NCH only
- UL and cUL listed in U.S.A. and Canada for wet locations when utilizing lensed or wall wash trim; else damp and dry listed
- Title 24 and JA8 compliant
- Conforms to Washington State Energy Code
- Contain no lead or mercury
- Spray foam rated with housing option (NCH only)
- Chicago Plenum rated and Airtight per ASTM E283 with housing option (NCH only)

WARRANTY
- 5-year warranty

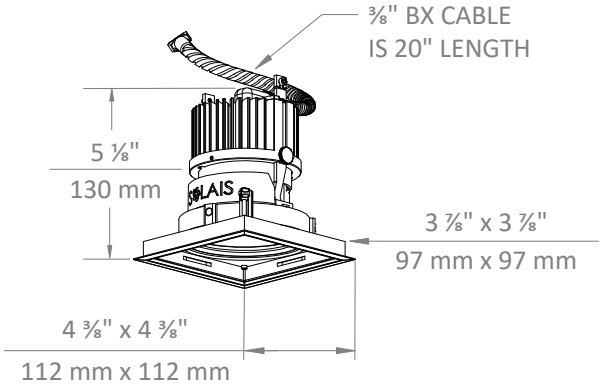
DIMENSIONAL DETAILS

REMODEL

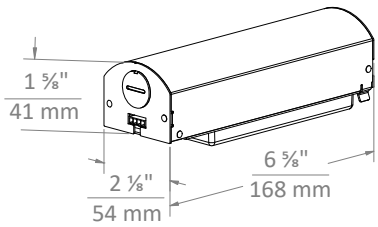
- Round Ceiling Cutout: Ø 4 ⅛"



- Square Ceiling Cutout: 4 ⅛" x 4 ⅛"



FLOATING J-BOX



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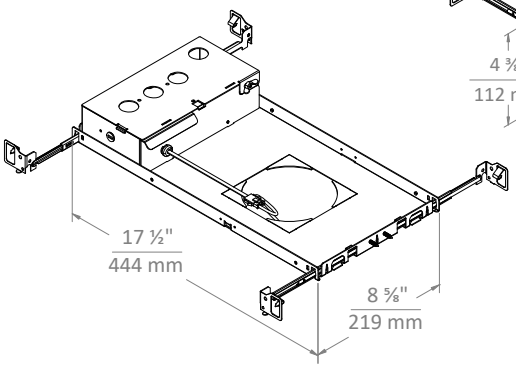
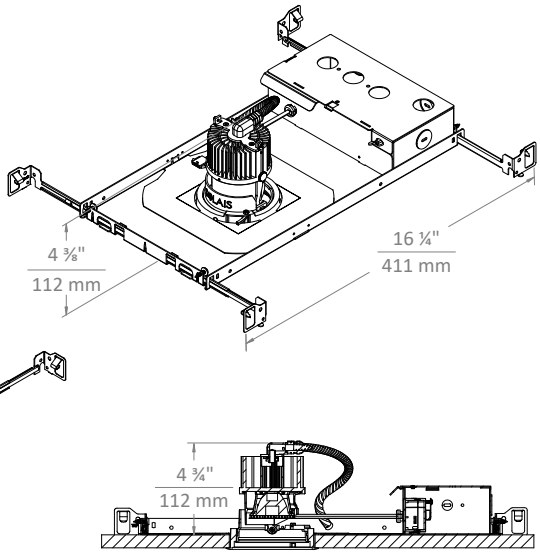
STRETTA ADJUSTABLE 3" DOWNLIGHT

NEW CONSTRUCTION TRAY

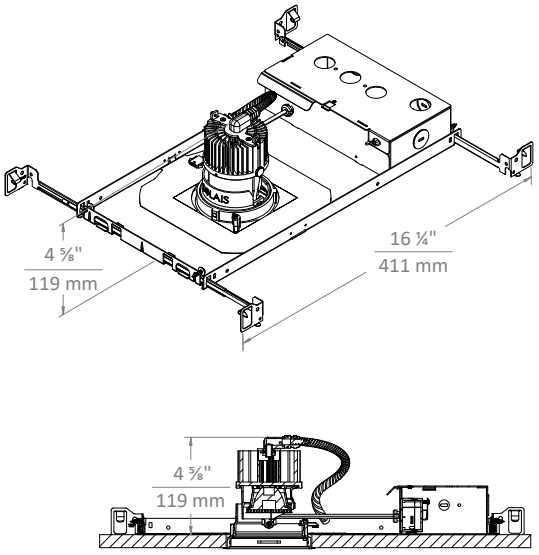
- NCT (5.7 lbs.)
  Standard mounting brackets:
  14" Minimum to 24" Maximum
- Shown with ⅝" ceiling installation



ROUND INSTALLATION

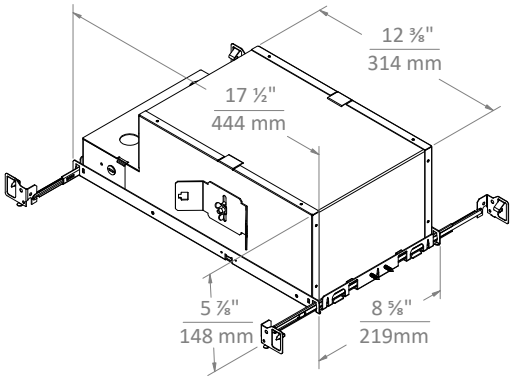


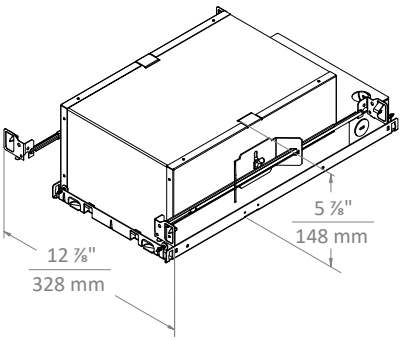
SQUARE INSTALLATION

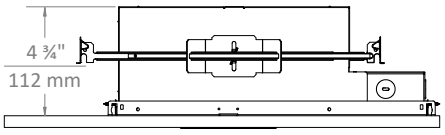


CHICAGO PLENUM HOUSING

- Chicago plenum, spray foam rated, low airflow housing
- NCH (7.2 lbs.)
  Commercial mounting brackets:
  10" Minimum to 24" Maximum
  with 2 ¾" vertical adjustment
- Shown with ⅝" ceiling installation







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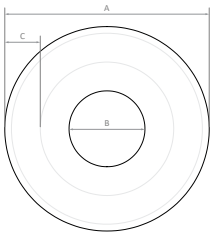
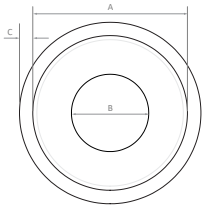
STRETTA ADJUSTABLE 3" DOWNLIGHT

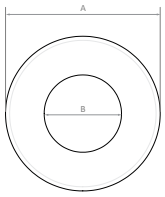
TRIM + COLLAR DETAIL

A: Outer insatallation dimension (to include collar)
B: Aperture dimension
C: Flange dimension

ROUND

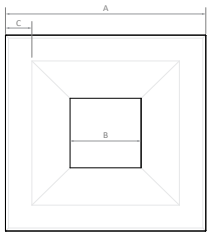


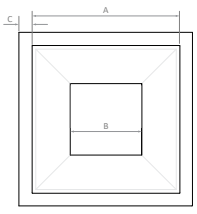


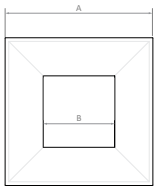


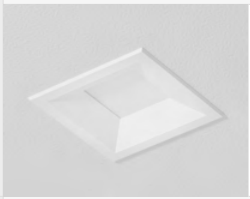
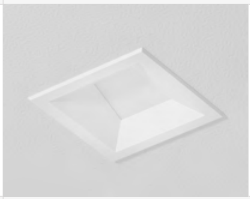
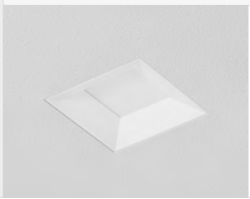
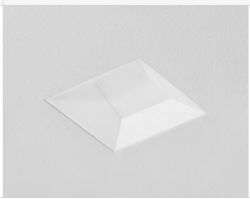
	BEVELED DOWN		BEVELED ADJUSTABLE	
FLANGED	BD		BA	
		A: 4 ⅝" | 117mm B: 2" | 51mm C: ½" | 13mm		A: 4 ⅝" | 117mm B: 2" | 51mm C: ½" | 13mm
MICROFLANGE	BDM		BAM	
		A: 3 ⅞" | 97mm B: 2" | 51mm C: ¼" | 6mm		A: 3 ⅞" | 97mm B: 2" | 51mm C: ¼" | 6mm
FLANGELESS	BDT		BAT	
		A: 3 ⅞" | 97mm B: 2" | 51mm C: n/a		A: 3 ⅞" | 97mm B: 2" | 51mm C: n/a

SQUARE







	BEVELED DOWN		BEVELED ADJUSTABLE	
FLANGED	BD		BA	
		A: 4 ⅝" | 117mm B: 2" | 51mm C: ½" | 13mm		A: 4 ⅝" | 117mm B: 2" | 51mm C: ½" | 13mm
MICROFLANGE	BDM		BAM	
		A: 3 ⅞" | 97mm B: 2" | 51mm C: ¼" | 6mm		A: 3 ⅞" | 97mm B: 2" | 51mm C: ¼" | 6mm
FLANGELESS	BDT		BAT	
		A: 3 ⅞" | 72mm B: 2" | 51mm C: n/a		A: 3 ⅞" | 72mm B: 2" | 51mm C: n/a

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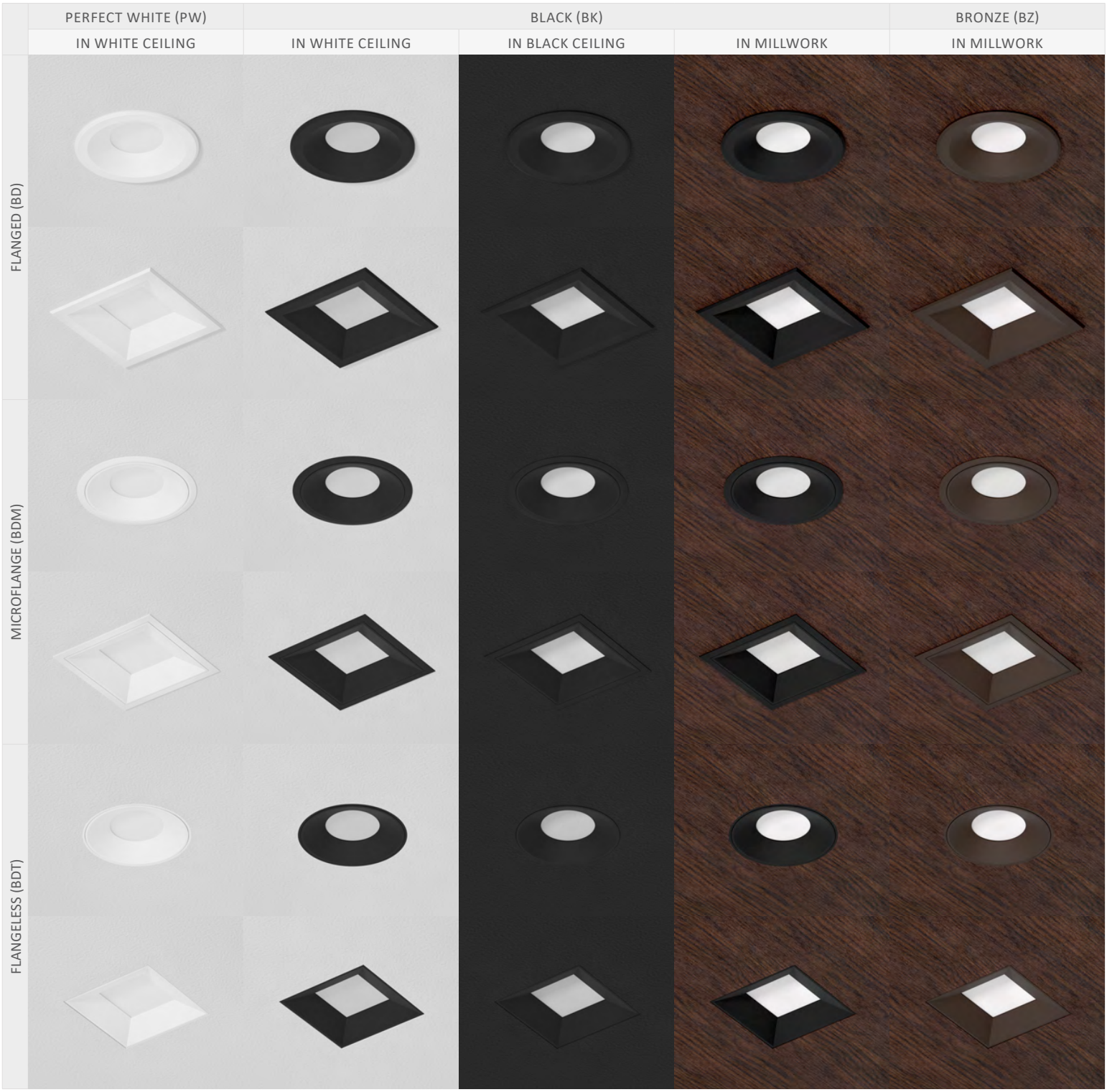
ST3Arm

REMODEL | NEW CONSTRUCTION

STRETTA ADJUSTABLE 3" DOWNLIGHT

BEVELED DOWN FINISH DETAILS



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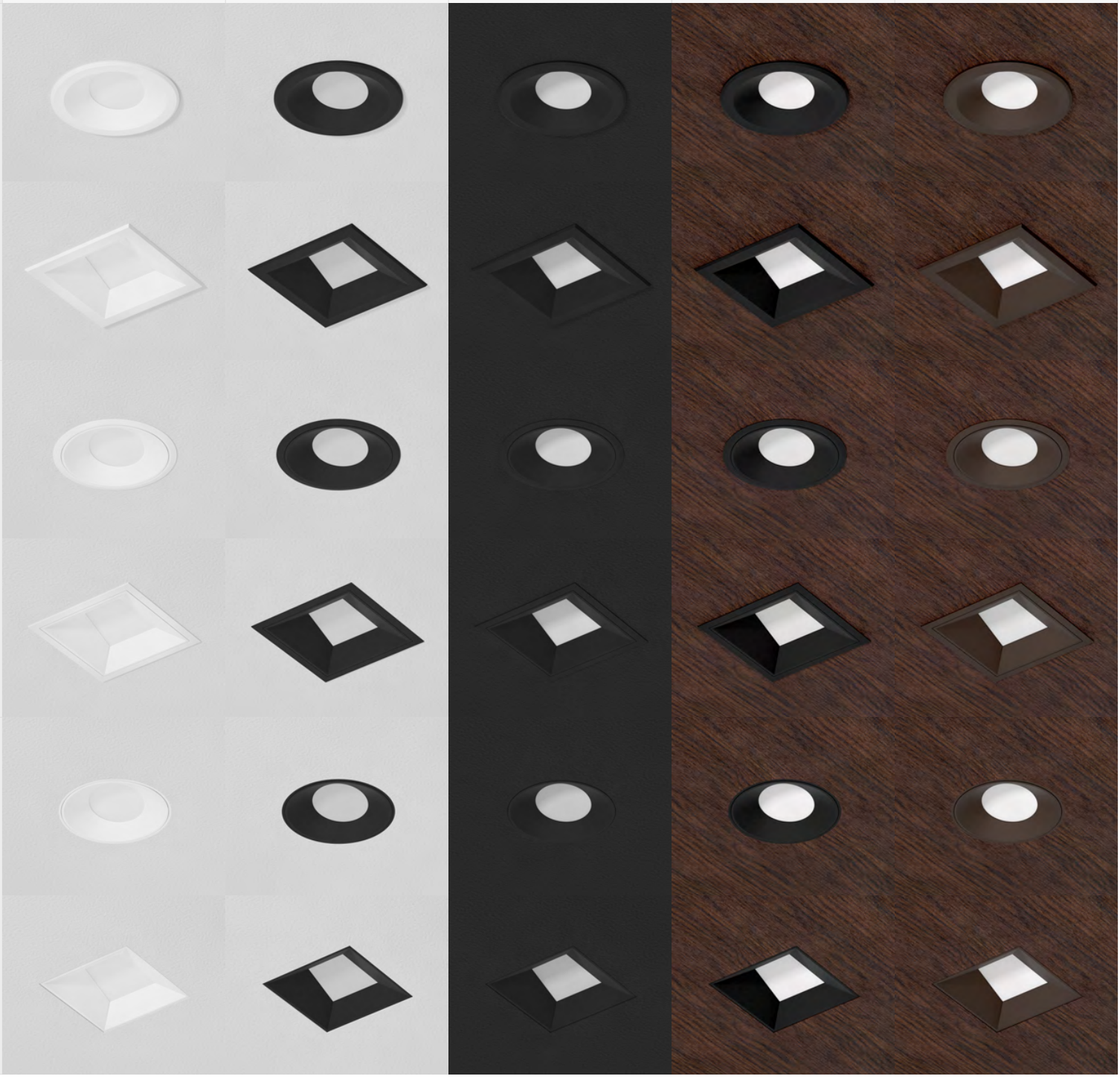
BEVELED ADJUSTABLE FINISH DETAILS

	PERFECT WHITE (PW)	BLACK (BK)		BRONZE (BZ)
	IN WHITE CEILING	IN WHITE CEILING	IN BLACK CEILING	IN MILLWORK	IN MILLWORK
FLANGED (BA)					
MICROFLANGE (BAM)					
FLANGELESS (BAT)					

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STRETTA ADJUSTABLE 3" DOWNLIGHT

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

Baseline data shown below for 10W, 900 lumens, 95 CRI , 3000K (700 lumens for NSP)

VNSP - 11° Very Narrow Spot

Input Power: 8W
Lumens: 498 lm
Efficacy: 62 lm/W
CBCP: 10220 cd
Beam Angle: 11.2°
Field Angle: 21.4°
Spacing Criteria: 0.2

∠	0°	45°	90°
0°	9994	9994	9994
5°	4533	4762	6028
10°	737	838	1344
15°	115	119	172
20°	43	46	54
25°	23	28	28
30°	13	18	15
35°	6	9	8
40°	2	4	3
45°	1	2	1

NSP - 17° Narrow Spot

Input Power: 24W
Lumens: 1593 lm
Efficacy: 66 lm/W
CBCP: 13816 cd
Beam Angle: 17.3°
Field Angle: 33.6°
Spacing Criteria: 0.3

∠	0°	45°	90°
0°	13674	13674	13674
5°	11224	10558	10225
10°	5879	5308	5070
15°	2258	1995	1901
20°	732	679	612
25°	247	235	197
30°	82	84	66
35°	30	32	23
40°	9	15	7
45°	4	6	4

NFL - 24° Narrow Flood

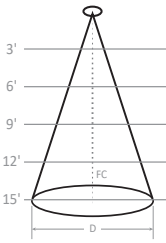
Input Power: 24W
Lumens: 2157 lm
Efficacy: 90 lm/W
CBCP: 9278 cd
Beam Angle: 24.0°
Field Angle: 48.0°
Spacing Criteria: 0.43

∠	0°	45°	90°
0°	9247	9247	9247
5°	8027	8219	8575
10°	5449	5685	6142
15°	3217	3369	3720
20°	1658	1977	2090
25°	714	1150	975
30°	261	515	351
35°	62	153	101
40°	16	43	22
45°	8	14	11

FL - 38° Flood

Input Power: 24W
Lumens: 2077 lm
Efficacy: 87 lm/W
CBCP: 4407 cd
Beam Angle: 37.8°
Field Angle: 66.2°
Spacing Criteria: 0.68

∠	0°	45°	90°
0°	4404	4404	4404
5°	4323	4268	4316
10°	3813	3806	3918
15°	2968	2995	3146
20°	2000	2084	2208
25°	1188	1311	1353
30°	646	737	759
35°	297	385	395
40°	128	189	171
45°	60	83	81



	VNSP	NSP	NFL	FL
3'	0.59' D; 777 FC	0.91' D; 1064 FC	1.28' D; 719 FC	2.05' D; 343 FC
6'	1.18' D; 194 FC	1.83' D; 266 FC	2.55' D; 180 FC	4.10' D; 86 FC
9'	1.76' D; 86 FC	2.74' D; 118 FC	3.83' D; 80 FC	6.15' D; 38 FC
12'	2.35' D; 49 FC	3.65' D; 67 FC	5.10' D; 45 FC	8.21' D; 21 FC
15'	2.94' D; 31 FC	4.56' D; 43 FC	6.38' D; 29 FC	10.26' D; 14 FC

WFL - 49° Wide Flood

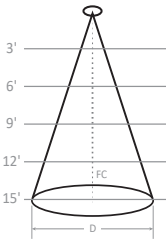
Input Power: 24W
Lumens: 1869 lm
Efficacy: 78 lm/W
CBCP: 2738 cd
Beam Angle: 49.2°
Field Angle: 72.3°
Spacing Criteria: 0.91

∠	0°	45°	90°
0°	2735	2735	2735
5°	2683	2691	2702
10°	2543	2544	2548
15°	2271	2277	2293
20°	1840	1899	1907
25°	1304	1440	1414
30°	801	990	940
35°	308	641	485
40°	92	371	134
45°	32	136	45

VFL - 67° Very Wide Flood

Input Power: 24W
Lumens: 1907 lm
Efficacy: 79 lm/W
CBCP: 1437 cd
Beam Angle: 67.1°
Field Angle: 115.5°
Spacing Criteria: 1.33

∠	0°	45°	90°
0°	1434	1434	1434
5°	1426	1414	1404
10°	1375	1347	1327
15°	1286	1245	1212
20°	1170	1121	1073
25°	1033	983	926
30°	882	840	780
35°	723	695	640
40°	563	553	507
45°	415	419	385



	WFL	VFL
3'	2.74' D; 213 FC	3.98' D; 112 FC
6'	5.49' D; 53 FC	7.95' D; 28 FC
9'	8.23' D; 24 FC	11.93' D; 12 FC
12'	10.98' D; 13 FC	15.90' D; 7 FC
15'	13.72' D; 9 FC	19.88' D; 5 FC

OUTPUT MULTIPLIER

Package	Multiplier
24W 2000 lm	1.00
18W 1600 lm	0.75
12W 1200 lm	0.50
8W 700 lm	0.33

CRI-CCT MULTIPLIER

CCT	95 CRI	98+ CRI
2700K	0.92	0.73
3000K	1.00	0.75
3500K	1.04	0.79
4000K	1.05	0.80
5000K	1.06	0.81

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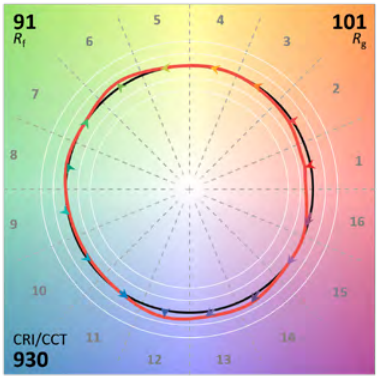
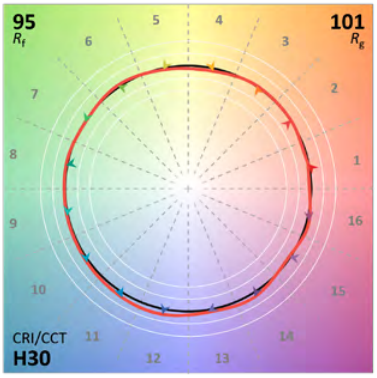
TM30 COLOR REPORTS

- 3000K with 95 CRI
- R_A = 95; R_9 = 62
- R_f = 91; R_g = 101

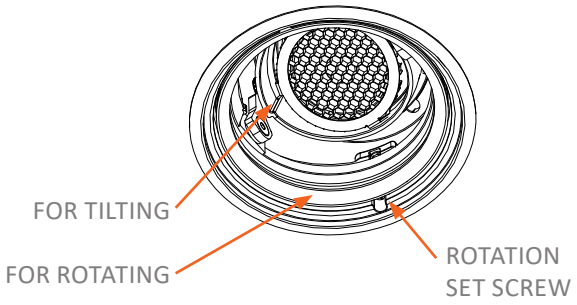


- 3000K with 98+ CRI
- R_A = 98; R_9 = 96
- R_f = 95; R_g = 101



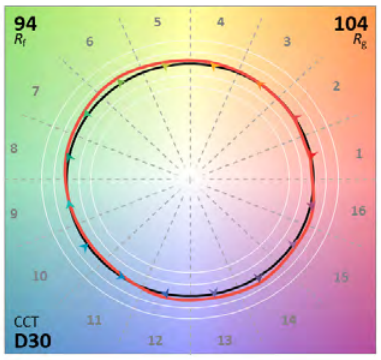
MODULE ADJUSTABLILITY

- Aim light by pushing the module to desired tilt angle
- Rotate module by placing two fingers on rotating ring and twisting
- Fasten set screw to lock position



DIM TO WARM DETAILS | Dim to Warm only available with NFL, FL, WFL, and NFL+WT beam spreads @ 10W; 900 lumens

- 3000K to 1800K with 98+ CRI
- R_A = 95; R_9 = 62
- R_f = 94; R_g = 104



NFL - Narrow Flood

Input Power:	15W
Lumens:	986 lm
Efficacy:	66 lm/W
CBCP:	6386 cd
Beam Angle:	20.2°
Field Angle:	38.9°
Spacing Criteria:	0.36

∠	0°	45°	90°
0°	6345	6345	6345
5°	5656	5404	5244
10°	3510	3122	2972
15°	1619	1367	1298
20°	629	562	516
25°	225	213	194
30°	77	76	66
35°	23	26	17
40°	6	10	5
45°	3	4	2

FL - Flood

Input Power:	15W
Lumens:	899 lm
Efficacy:	60 lm/W
CBCP:	2032 cd
Beam Angle:	36.3°
Field Angle:	65.4°
Spacing Criteria:	0.65

∠	0°	45°	90°
0°	2023	2023	2023
5°	1983	1950	1931
10°	1762	1687	1653
15°	1357	1262	1229
20°	909	827	801
25°	541	490	470
30°	303	273	263
35°	157	148	124
40°	66	75	53
45°	31	32	24

WFL - Wide Flood

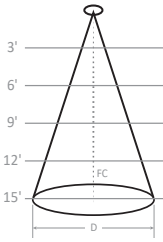
Input Power:	15W
Lumens:	750 lm
Efficacy:	50 lm/W
CBCP:	965 cd
Beam Angle:	55.0°
Field Angle:	74.6°
Spacing Criteria:	1.04

∠	0°	45°	90°
0°	930	930	930
5°	917	915	900
10°	878	863	858
15°	800	780	785
20°	700	676	680
25°	572	557	545
30°	413	426	362
35°	207	296	138
40°	51	185	39
45°	18	62	14

Very Wide Flood (NFL+WT)

Input Power:	15W
Lumens:	896 lm
Efficacy:	60 lm/W
CBCP:	783 cd
Beam Angle:	60.6°
Field Angle:	108.6°
Spacing Criteria:	1.17

∠	0°	45°	90°
0°	782	782	782
5°	772	769	766
10°	731	726	720
15°	667	660	653
20°	592	581	570
25°	515	497	482
30°	436	411	393
35°	356	326	307
40°	275	245	228
45°	199	172	158



	NFL	FL	WFL	Very Wide Flood (NFL+WT)
3'	1.07' D; 494 FC	1.96' D; 157 FC	3.12' D; 72 FC	3.50' D; 61 FC
6'	2.14' D; 123 FC	3.93' D; 39 FC	6.24' D; 18 FC	7.01' D; 15 FC
9'	3.21' D; 55 FC	5.89' D; 18 FC	9.36' D; 8 FC	10.51' D; 7 FC
12'	4.28' D; 31 FC	7.86' D; 10 FC	12.48' D; 5 FC	14.01' D; 4 FC
15'	5.34' D; 20 FC	9.82' D; 6 FC	15.60' D; 3 FC	17.51' D; 2 FC

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