

PROJECT

TYPE

SPECIFIER

MEMO

ORDERING CODE BREAKDOWN

MDR DROPLIT

POWERED BY LUCIE
3" SURFACE MOUNT PENDANT

MAIN FEATURES

- 95 CRI Standard; 98+ CRI option available
- Modular platform with integrated driver provides easy maintenance for individual components above and below the ceiling
- 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
- Accommodates up to two accessories, plus snoot



Perfect White, Silver + SN, Black + AS

Fixture	Voltage	Beam Spread	CRI	CCT	Lumens	Module Finish	Socket Finish	Mounting	Module Options
MDR	1 : 120V 1% Phase-cut Dimming	NSP² : 15°	9 : 95 CRI	22² : 2200K	2000 : 22W	PW : Perfect White	PW : Perfect White	SM : Surface Mount	AS : Acrylic Snoot
	2 : 120-277V 1% 0-10V Dimming	NFL : 23°	H¹ : 98 CRI	25² : 2500K	2300 : 24W	BK : Black	BK : Black		SN : Snoot
		FL : 36°		27 : 2700K		SV : Silver	SV : Silver		HL : Honeycomb Louver
		WFL : 60°		30 : 3000K		BG : Brushed Gold	BG : Brushed Gold		LS : Linear Spread Lens
				35 : 3500K		BA : Brushed Aluminum	BA : Brushed Aluminum		SS : Solite Spread Lens
				40 : 4000K		CR : Chrome	CR : Chrome		DFAxx³ : Decorative Frosted Acrylic (length)
				50 : 5000K		BZ : Bronze	BZ : Bronze		
				BC : Black Chrome		BC : Black Chrome			
				RC : Rose Gold Chrome		RC : Rose Gold Chrome			
				GD : Gold		GD : Gold			
				GC : Gold Chrome		GC : Gold Chrome			
					SNxx² : Mix + Match snoot (snoot finish)				

Notes: ¹ 98+ CRI produces less measured lumens. See photometric data.

² 2200K, 2500K, and NSP are only available with '9' and are 90+ CRI

³ Consult factory for mixing and matching finishes of fixtures and/or custom snoots

Included ceiling plate will match the socket finish chosen. Consult factory for alternate finish



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OPTICS + PERFORMANCE

- 4 custom beam spreads available
 - Narrow Spot - 15°
 - Narrow Flood - 23°
 - Flood - 36°
 - Wide Flood - 60°
- 4 performance packages
 - 16W; 1000 lumens (Dim-to-warm)
 - 16W; 1600 lumens
 - 22W; 2000 lumens
 - 23W; 2300 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 (LM₉₀): 60,000 hours

ELECTRICAL + CONTROLS

- 120V: <1% Phase-cut dimming
- 120-277V: <1% Phase-cut or 0-10V dimming

CONSTRUCTION + FINISH

- Weight: 1.6 lbs.
- Die-cast aluminum alloy housing for optimal thermal performance
- Standard finishes (*consult factory for custom*):
 - White: RAL 9003
 - Black: RAL 9005
 - Silver: RAL 7001
- Solais Signature Series finishes also available

RATINGS + CERTIFICATIONS

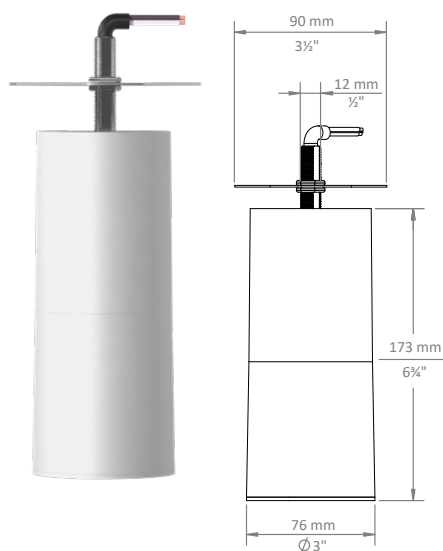
- Meets California Title 24 + JA8
- IP20 and IK08 rated
- UL listed for dry and damp locations (E485648)
- Contain no lead or mercury

WARRANTY

- 5-year warranty

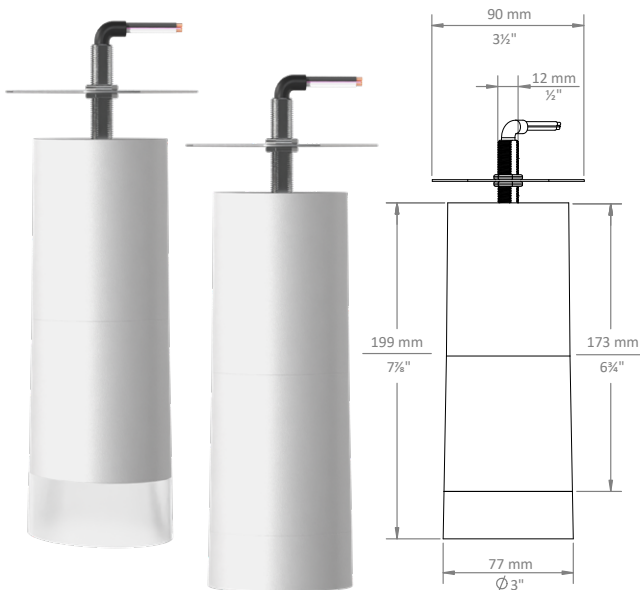
DIMENSIONAL DETAILS

Standard MDR



MDR w/ Snoot

AS Acrylic Snoot (left), SN Matching Snoot (right)



MDR w/ DFAxx



SIGNATURE SERIES FINISHES (shown with matching snoots)



Consult factory for mixing and matching finishes of fixtures and/or snoots

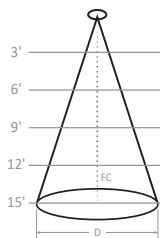
PHOTOMETRIC DETAILS | **baseline X output multiplier X cri-cct multiplier = final output**

Baseline data shown below for MDR_/_/1/_/_/_/_/_/_/_/_/930/2300/_/_/_ — 16W, 1600 lumens, 3000K, 95 CRI

VNSP - 11° Very Narrow Spot

- Input Power: 9W
- Lumens: 504 lm
- Efficacy: 57 lm/W
- CBCP: 10307
- Beam Angle: 11°
- Field Angle: 21°
- Spacing Criteria: 0.19

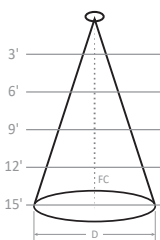
∠	0°	45°	90°
0°	10301	10301	10301
5°	6386	6064	5706
10°	1488	1358	1191
15°	271	223	189
20°	72	64	60
25°	34	32	31
30°	21	20	20
35°	13	13	13
40°	8	8	8
45°	4	4	4



FL - 39° Flood

- Input Power: 24W
- Lumens: 2244 lm
- Efficacy: 93 lm/W
- CBCP: 4353
- Beam Angle: 39°
- Field Angle: 71°
- Spacing Criteria: 0.71

∠	0°	45°	90°
0°	4352	4352	4352
5°	4206	4206	4209
10°	3729	3711	3741
15°	2927	2897	2943
20°	2067	2010	2084
25°	1284	1234	1307
30°	758	738	780
35°	417	406	425
40°	224	217	228
45°	118	116	122



NSP - 16° Narrow Spot

- Input Power: 24W
- Lumens: 1768 lm
- Efficacy: 72 lm/W
- CBCP: 19020
- Beam Angle: 16°
- Field Angle: 29°
- Spacing Criteria: 0.27

∠	0°	45°	90°
0°	18936	18936	18936
5°	14820	15106	15297
10°	6526	6918	7081
15°	2033	2079	2067
20°	653	595	534
25°	217	199	185
30°	88	86	89
35°	48	48	51
40°	29	29	30
45°	16	16	17

0.82' D; 1473 FC
1.63' D; 368 FC
2.45' D; 164 FC
3.27' D; 92 FC
4.08' D; 59 FC

NFL - 24° Narrow Flood

- Input Power: 24W
- Lumens: 2406 lm
- Efficacy: 99 lm/W
- CBCP: 9131
- Beam Angle: 24°
- Field Angle: 53°
- Spacing Criteria: 0.43

∠	0°	45°	90°
0°	9131	9131	9131
5°	8128	8000	8016
10°	5579	5494	5516
15°	3248	3206	3248
20°	1871	1845	1934
25°	1045	1049	1098
30°	524	530	547
35°	247	253	258
40°	116	121	122
45°	53	55	55

1.29' D; 710 FC
2.58' D; 178 FC
3.87' D; 79 FC
5.16' D; 44 FC
6.45' D; 28 FC

WFL - 52° Wide Flood

- Input Power: 24W
- Lumens: 2297 lm
- Efficacy: 95 lm/W
- CBCP: 2632
- Beam Angle: 52°
- Field Angle: 94°
- Spacing Criteria: 0.97

∠	0°	45°	90°
0°	2630	2630	2630
5°	2569	2576	2589
10°	2411	2420	2450
15°	2148	2169	2222
20°	1796	1815	1842
25°	1378	1387	1405
30°	966	972	992
35°	655	661	676
40°	436	446	463
45°	288	298	318

2.92' D; 205 FC
5.85' D; 51 FC
8.77' D; 23 FC
11.69' D; 13 FC
14.62' D; 8 FC

OUTPUT MULTIPLIER

Package	Multiplier
1000 lumens; 10W	0.48
1600 lumens; 16W	0.69
2000 lumens; 22W	0.90
2300 lumens; 24W	1.00

CRI-CCT MULTIPLIERS

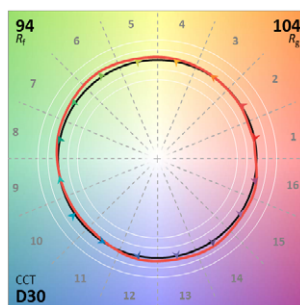
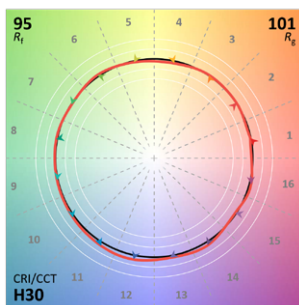
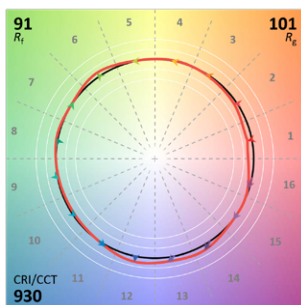
CCT	95 CRI	98+ CRI	MonoWhite
2200K	0.80	0.71	--
2500K	0.85	0.76	--
2700K	0.92	0.73	--
3000K	1.00	0.75	0.86
3500K	1.04	0.79	0.88
4000K	1.05	0.80	--
5000K	1.06	0.81	--

TM30 COLOR REPORTS

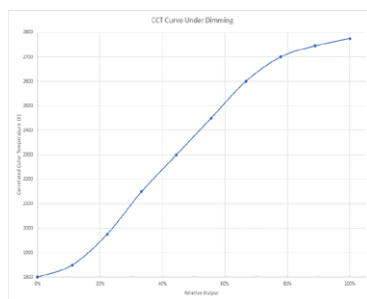
- 3000K with 95 CRI
- $R_A = 95$; $R_g = 62$
- $R_f = 91$; $R_g = 101$

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

- 3000K to 1800K with 98+ CRI
- $R_A = 98$; $R_g = 93$
- $R_f = 94$; $R_g = 104$



DIM TO WARM DETAILS | Dim to Warm only available with NFL, FL, and WFL beam spreads @ 16W; 1000 lumens; 97+CRI



SP - 20° Spot

- Input Power: 15W
- Lumens: 1016 lm
- Efficacy: 68 lm/W
- CBCP: 6461
- Beam Angle: 20°
- Field Angle: 39°
- Spacing Criteria: 0.36

∠	0°	45°	90°
0°	6451	6451	6451
5°	5471	5372	5372
10°	3165	3098	3078
15°	1433	1351	1363
20°	601	541	537
25°	244	203	201
30°	89	75	74
35°	35	31	31
40°	17	16	16
45°	8	8	8

NFL - 24° Narrow Flood

- Input Power: 15W
- Lumens: 991 lm
- Efficacy: 66 lm/W
- CBCP: 4579
- Beam Angle: 24°
- Field Angle: 45°
- Spacing Criteria: 0.43

∠	0°	45°	90°
0°	4579	4579	4579
5°	4068	4015	4017
10°	2847	2765	2797
15°	1579	1485	1533
20°	701	666	672
25°	283	262	266
30°	121	116	116
35°	59	59	58
40°	28	28	28
45°	14	14	15

FL - 36° Flood

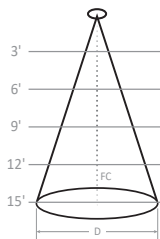
- Input Power: 15W
- Lumens: 936 lm
- Efficacy: 63 lm/W
- CBCP: 2058
- Beam Angle: 36°
- Field Angle: 66°
- Spacing Criteria: 0.65

∠	0°	45°	90°
0°	2055	2055	2055
5°	1988	1959	1954
10°	1729	1686	1683
15°	1301	1258	1256
20°	861	830	828
25°	510	490	491
30°	288	276	279
35°	157	150	154
40°	82	78	80
45°	43	40	42

WFL - 57° Wide Flood

- Input Power: 15W
- Lumens: 939 lm
- Efficacy: 63 lm/W
- CBCP: 931
- Beam Angle: 57°
- Field Angle: 99°
- Spacing Criteria: 1.09

∠	0°	45°	90°
0°	928	928	928
5°	904	899	906
10°	868	844	861
15°	800	764	787
20°	701	663	682
25°	574	545	555
30°	429	414	417
35°	304	293	294
40°	210	199	203
45°	136	127	131



1.07' D; 502 FC
2.14' D; 125 FC
3.21' D; 56 FC
4.28' D; 31 FC
5.34' D; 20 FC

1.30' D; 356 FC
2.59' D; 89 FC
3.89' D; 39.6 FC
5.19' D; 22 FC
6.49' D; 14 FC

1.96' D; 160 FC
3.92' D; 40 FC
5.87' D; 18 FC
7.83' D; 10 FC
9.79' D; 6 FC

3.28' D; 72 FC
6.56' D; 18 FC
9.84' D; 8 FC
13.13' D; 4.5 FC
16.41' D; 3 FC