

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1311103

Luminaire Tested: LDSQA3D05R159040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

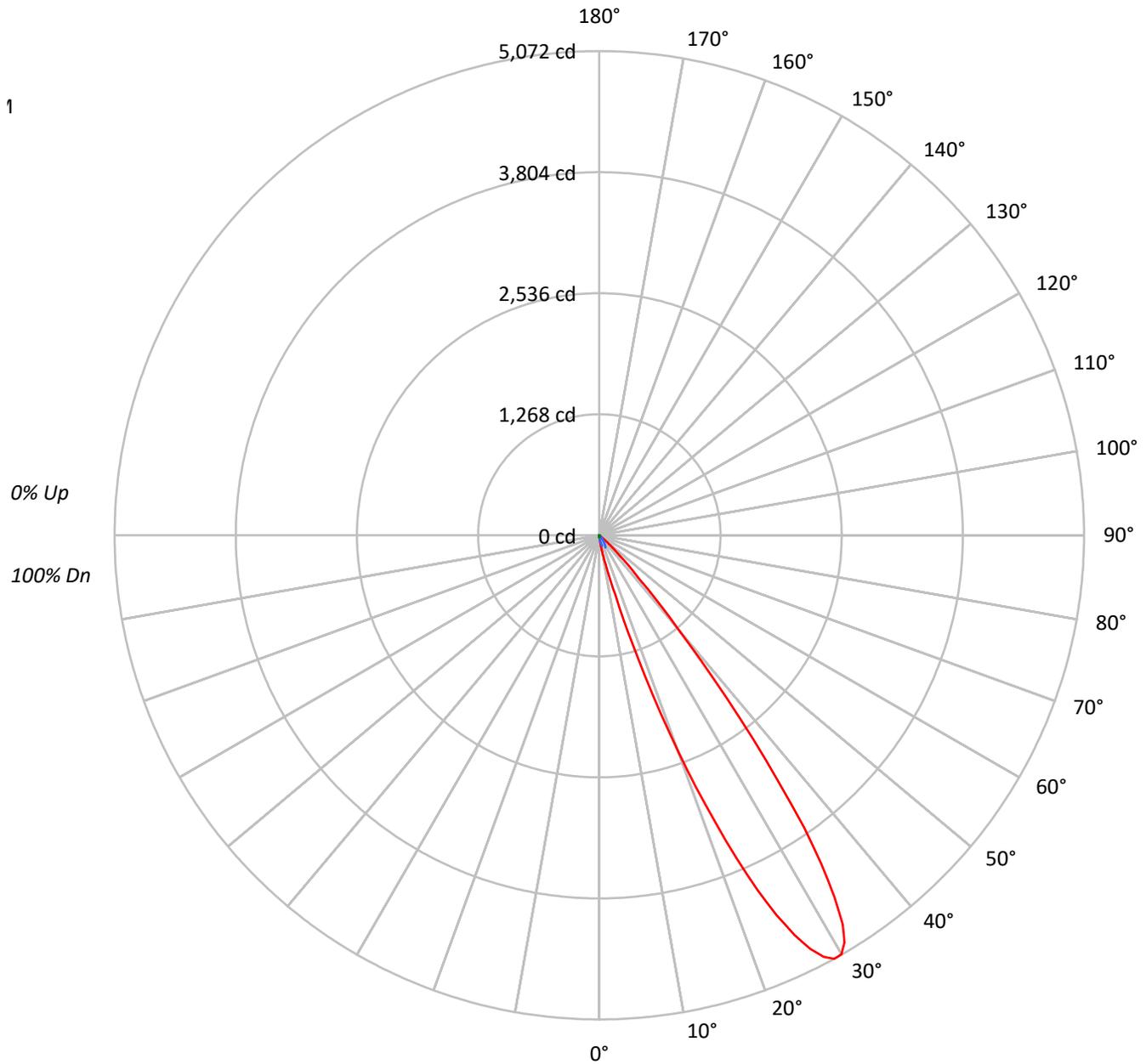
Test Method: LM-79-2019  
Report Number: P1311103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R159040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 554.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61				61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55				55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41				41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37				37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	3152	3152	3152	3152	3152
5°	6794	5031	2974	1591	1297
10°	30149	9513	2361	665	472
15°	114057	22002	1640	285	196
20°	438633	31010	990	92	92
25°	834103	29074	513	0	0
30°	1007612	23466	219	0	0
35°	785854	15979	105	0	0
40°	286781	7869	112	0	112
45°	73628	2363	122	0	268
50°	12405	295	134	134	429
55°	1621	0	330	480	811
60°	172	172	551	758	1102
65°	204	204	897	1100	1304
70°	252	252	1108	1108	1360
75°	333	333	1464	1065	1464
80°	0	496	1587	1091	1587
85°	0	988	3162	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 73628 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	42.4	7.7
20°-30°	235.5	42.5
30°-40°	227.5	41.1
40°-50°	39.6	7.1
50°-60°	2.8	0.5
60°-70°	1.7	0.3
70°-80°	1.4	0.2
80°-90°	0.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	280.4	50.6
0°-40°	507.9	91.7
0°-60°	550.3	99.3
0°-90°	554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	39	29	17	9	8	8
15°	640	123	9	2	1	285
25°	4389	153	3	0	0	1963
35°	3738	76	0	0	0	2150
45°	302	10	0	0	1	325
55°	5	0	1	2	3	10
65°	0	0	2	3	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	26.9	25.9	26.4	26.4	26.4	26.4	26.4	25.3	25.3	25.9	23.2
5°	39.3	39.3	38.8	39.3	39.3	38.8	37.7	37.2	37.2	36.1	29.1
7.5°	78.7	77.6	77.6	76.5	71.1	69.5	68.4	65.7	60.9	59.8	37.7
10°	172.4	173.0	169.2	164.4	163.8	155.7	153.0	148.2	139.0	129.9	54.4
12.5°	313.1	306.1	296.9	297.5	281.8	276.5	264.1	250.6	236.6	222.0	89.5
15°	639.7	619.7	631.6	602.5	569.6	532.4	494.7	447.3	406.9	363.8	123.4
17.5°	1347.3	1366.7	1333.8	1209.3	1132.8	1042.8	916.1	793.8	689.3	605.2	150.9
20°	2393.3	2421.8	2310.3	2202.0	2016.0	1813.4	1602.2	1362.9	1133.9	935.5	169.2
21°	2830.3	2813.1	2767.3	2593.7	2379.3	2144.3	1885.6	1621.6	1344.0	1086.4	170.8
22°	3252.8	3260.9	3154.2	2972.6	2749.5	2489.2	2173.4	1847.4	1548.3	1209.3	168.1
23°	3673.7	3699.6	3558.4	3388.1	3107.3	2813.6	2448.2	2096.3	1726.6	1350.0	162.7
24°	4063.3	4045.5	3950.2	3735.7	3435.5	3091.7	2712.3	2285.5	1873.2	1470.1	158.4
25°	4389.4	4387.2	4237.4	4028.8	3685.6	3304.6	2886.4	2440.2	1998.8	1551.5	153.0
26°	4656.1	4612.5	4494.4	4240.1	3901.1	3499.1	3029.2	2552.8	2069.4	1592.5	147.7
27°	4862.0	4830.7	4672.3	4407.7	4053.6	3609.0	3120.8	2608.8	2101.7	1605.9	140.7
28°	5000.5	4966.5	4797.9	4525.2	4137.7	3678.0	3169.3	2632.5	2101.7	1593.0	134.2
29°	5072.2	5025.8	4857.7	4565.6	4157.1	3686.1	3157.4	2609.4	2068.8	1553.1	126.6
30°	5066.8	5009.1	4832.9	4528.9	4099.4	3619.8	3091.1	2525.8	1994.5	1493.8	118.0
31°	4979.5	4914.8	4718.1	4405.0	3980.3	3494.8	2966.1	2413.7	1892.6	1416.8	109.4
32°	4802.2	4720.2	4528.4	4216.4	3797.1	3307.8	2784.5	2240.8	1740.1	1304.1	100.2
33°	4513.3	4430.9	4225.0	3932.4	3549.2	3070.7	2543.6	2054.8	1566.6	1170.0	92.7
34°	4151.7	4076.3	3899.0	3604.2	3236.6	2770.5	2266.6	1797.8	1386.6	1036.8	84.6
35°	3737.8	3617.7	3457.1	3223.7	2865.3	2396.5	1967.5	1558.5	1201.2	897.3	76.0
36°	3177.9	3199.5	3029.2	2743.6	2446.6	2079.1	1667.4	1299.3	1004.5	764.7	68.4
37°	2681.6	2647.6	2539.3	2318.4	2059.7	1694.8	1397.4	1101.5	845.0	646.7	60.4
38°	2163.2	2170.7	2064.5	1894.8	1638.3	1393.6	1124.7	904.8	707.0	550.2	52.8
39°	1693.2	1687.3	1658.7	1501.4	1269.1	1108.5	911.3	750.2	589.0	464.0	44.7
40°	1275.6	1285.3	1218.5	1123.6	988.3	856.3	725.9	598.2	487.2	391.2	35.0
42.5°	620.3	635.4	591.2	566.9	507.1	455.4	384.2	313.6	266.8	230.7	15.6
45°	302.3	293.7	289.9	278.1	264.1	236.0	209.1	179.5	156.8	135.3	9.7
47.5°	154.7	150.4	150.4	145.5	140.7	131.5	118.0	108.3	97.5	84.1	3.8
50°	46.3	45.8	45.3	45.8	44.2	45.8	46.9	47.4	43.1	42.6	1.1
52.5°	18.3	18.9	18.3	19.9	19.9	19.4	19.9	19.4	18.9	16.7	0.0
55°	5.4	5.4	5.4	5.4	5.4	5.4	5.9	6.5	5.9	6.5	0.0
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	21.6	18.9	15.6	12.9	11.9	11.3
5°	23.2	17.2	11.9	9.2	8.1	7.5
7.5°	24.8	15.6	9.2	6.5	4.9	4.3
10°	25.9	13.5	7.0	3.8	2.7	2.7
12.5°	25.9	10.8	4.9	2.2	1.6	1.6
15°	25.3	9.2	3.2	1.6	1.1	1.1
17.5°	24.8	7.0	2.2	1.1	0.5	1.1
20°	23.2	5.4	1.1	0.5	0.5	0.5
21°	22.6	4.9	1.1	0.5	0.5	0.5
22°	21.6	4.3	0.5	0.0	0.5	0.5
23°	20.5	3.2	0.5	0.0	0.0	0.0
24°	18.9	2.7	0.5	0.0	0.0	0.0
25°	17.8	2.7	0.5	0.0	0.0	0.0
26°	16.7	1.6	0.0	0.0	0.0	0.0
27°	15.1	1.1	0.0	0.0	0.0	0.0
28°	14.0	1.1	0.0	0.0	0.0	0.0
29°	12.4	1.1	0.0	0.0	0.0	0.0
30°	10.8	1.1	0.0	0.0	0.0	0.0
31°	8.6	0.5	0.0	0.0	0.0	0.0
32°	7.0	0.5	0.0	0.0	0.0	0.0
33°	4.9	0.5	0.0	0.0	0.0	0.0
34°	3.2	0.5	0.0	0.0	0.0	0.0
35°	2.7	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.5	0.0	0.0	0.0	0.5
37°	1.6	0.5	0.0	0.0	0.0	0.5
38°	1.1	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.1
45°	0.0	0.5	0.0	0.0	0.5	1.1
47.5°	0.0	0.5	0.0	0.0	1.1	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	1.1	1.6	2.2
55°	0.5	1.1	1.1	1.6	2.2	2.7
57.5°	0.5	1.6	1.6	2.2	2.7	2.7
60°	1.1	1.6	2.2	2.2	3.2	3.2
62.5°	1.1	2.2	2.2	2.2	3.2	3.2
65°	1.1	2.2	2.2	2.7	3.2	3.2
67.5°	1.1	2.2	2.2	2.2	2.7	3.2
70°	1.1	2.2	1.6	2.2	2.7	2.7
72.5°	1.1	2.2	1.6	1.6	2.2	2.7
75°	1.1	2.2	1.6	1.6	2.2	2.2
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)