

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: P1316046

Luminaire Tested: LDSQA3D02R159740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

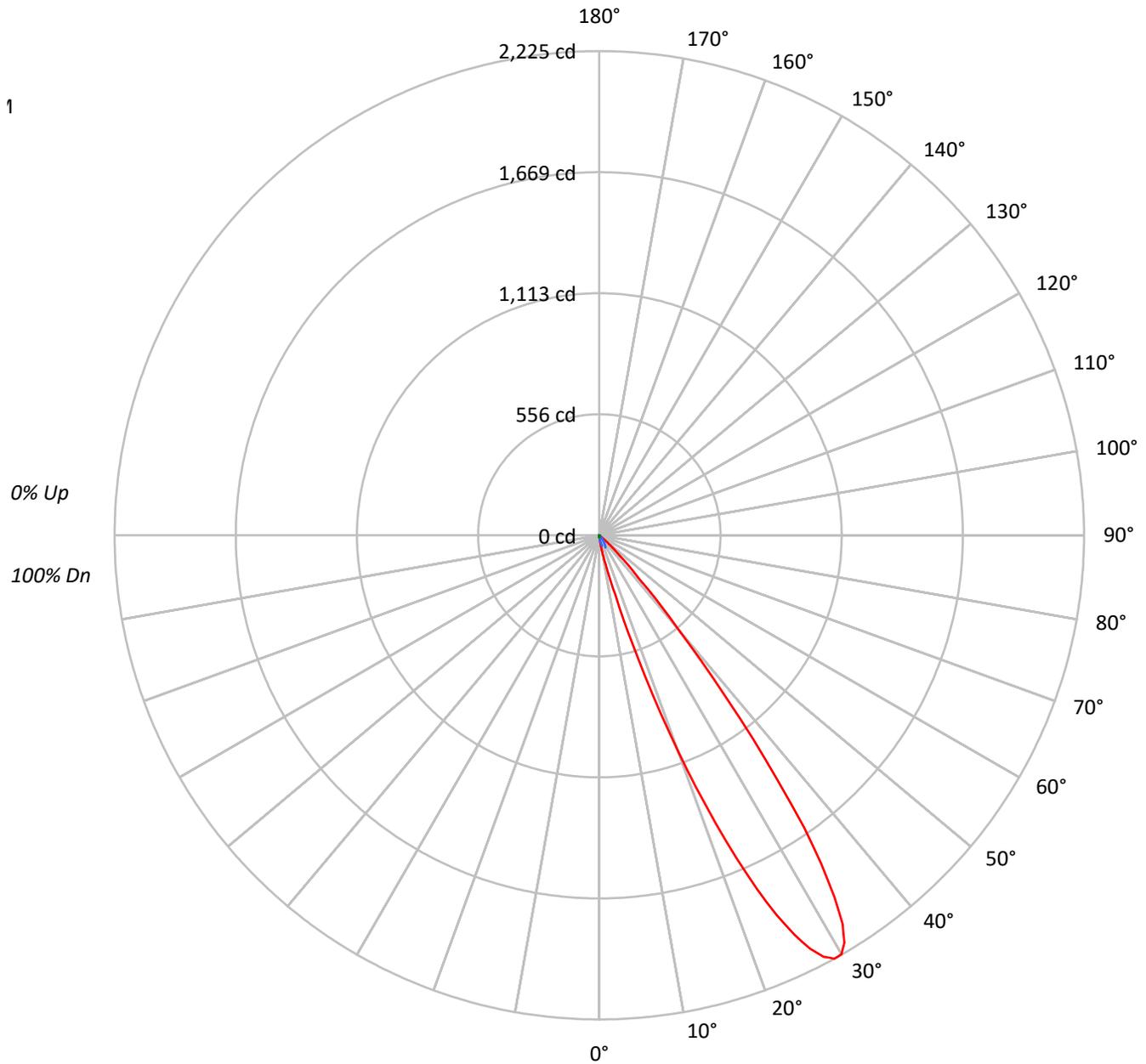
Test Method: LM-79-2019  
Report Number: P1316046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R159740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 242.9 lumens  
Efficiency: N/A  
Efficacy: 67.5 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): 3.6  
Input Voltage (V): NR  
Input Current (Ain): 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				
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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	1378	1378	1378	1378	1378
5°	2991	2213	1314	692	571
10°	13221	4180	1032	297	210
15°	50030	9646	713	125	89
20°	192403	13599	440	37	37
25°	365858	12751	228	0	0
30°	441959	10301	99	0	0
35°	344697	7001	42	0	0
40°	125787	3462	45	0	45
45°	32296	1047	49	0	122
50°	5439	134	54	54	188
55°	721	0	150	210	360
60°	69	69	241	310	482
65°	82	82	367	489	571
70°	101	101	453	453	604
75°	133	133	599	466	599
80°	0	198	694	496	694
85°	0	395	1383	395	395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32296 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	18.6	7.7
20°-30°	103.3	42.5
30°-40°	99.8	41.1
40°-50°	17.4	7.1
50°-60°	1.2	0.5
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	123.0	50.6
0°-40°	222.8	91.7
0°-60°	241.4	99.3
0°-90°	242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	242.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	13	8	4	3	3
15°	281	54	4	1	0	125
25°	1925	67	1	0	0	861
35°	1640	33	0	0	0	943
45°	133	4	0	0	0	142
55°	2	0	0	1	1	5
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	11.8	11.3	11.6	11.6	11.6	11.6	11.6	11.1	11.1	11.3	10.2
5°	17.3	17.3	17.0	17.3	17.3	17.0	16.5	16.3	16.3	15.8	12.8
7.5°	34.5	34.0	34.0	33.6	31.2	30.5	30.0	28.8	26.7	26.2	16.5
10°	75.6	75.9	74.2	72.1	71.9	68.3	67.1	65.0	61.0	57.0	23.9
12.5°	137.3	134.3	130.2	130.5	123.6	121.3	115.8	109.9	103.8	97.4	39.2
15°	280.6	271.8	277.0	264.3	249.9	233.5	217.0	196.2	178.5	159.6	54.1
17.5°	590.9	599.5	585.0	530.4	496.9	457.4	401.8	348.2	302.3	265.5	66.2
20°	1049.8	1062.3	1013.4	965.8	884.3	795.4	702.8	597.8	497.3	410.4	74.2
21°	1241.5	1233.9	1213.8	1137.7	1043.6	940.5	827.1	711.3	589.5	476.5	74.9
22°	1426.8	1430.3	1383.5	1303.9	1206.0	1091.8	953.3	810.3	679.1	530.4	73.7
23°	1611.4	1622.7	1560.8	1486.1	1363.0	1234.1	1073.9	919.5	757.4	592.1	71.4
24°	1782.3	1774.5	1732.7	1638.6	1506.9	1356.1	1189.7	1002.5	821.6	644.8	69.5
25°	1925.3	1924.4	1858.6	1767.2	1616.6	1449.5	1266.0	1070.3	876.7	680.5	67.1
26°	2042.3	2023.2	1971.4	1859.8	1711.1	1534.8	1328.7	1119.7	907.7	698.5	64.8
27°	2132.6	2118.9	2049.4	1933.3	1778.0	1583.0	1368.9	1144.3	921.9	704.4	61.7
28°	2193.4	2178.5	2104.5	1984.9	1814.9	1613.3	1390.1	1154.7	921.9	698.7	58.9
29°	2224.8	2204.5	2130.7	2002.6	1823.4	1616.8	1384.9	1144.5	907.5	681.2	55.5
30°	2222.4	2197.1	2119.8	1986.5	1798.1	1587.8	1355.9	1107.9	874.8	655.2	51.8
31°	2184.1	2155.8	2069.5	1932.2	1745.9	1532.9	1301.0	1058.7	830.2	621.4	48.0
32°	2106.4	2070.4	1986.3	1849.4	1665.5	1450.9	1221.4	982.9	763.3	572.0	44.0
33°	1979.7	1943.5	1853.2	1724.8	1556.8	1346.9	1115.7	901.3	687.2	513.2	40.7
34°	1821.1	1788.0	1710.2	1580.9	1419.7	1215.2	994.2	788.6	608.2	454.8	37.1
35°	1639.5	1586.8	1516.4	1414.0	1256.8	1051.2	863.0	683.6	526.9	393.6	33.3
36°	1393.9	1403.4	1328.7	1203.4	1073.2	911.9	731.4	569.9	440.6	335.4	30.0
37°	1176.2	1161.3	1113.8	1016.9	903.4	743.4	612.9	483.2	370.6	283.7	26.5
38°	948.8	952.1	905.6	831.1	718.6	611.3	493.3	396.9	310.1	241.3	23.2
39°	742.7	740.1	727.6	658.5	556.7	486.2	399.7	329.0	258.4	203.5	19.6
40°	559.5	563.8	534.5	492.8	433.5	375.6	318.4	262.4	213.7	171.6	15.4
42.5°	272.1	278.7	259.3	248.7	222.4	199.7	168.5	137.6	117.0	101.2	6.9
45°	132.6	128.8	127.2	122.0	115.8	103.5	91.7	78.7	68.8	59.3	4.3
47.5°	67.8	65.9	65.9	63.8	61.7	57.7	51.8	47.5	42.8	36.9	1.7
50°	20.3	20.1	19.9	20.1	19.4	20.1	20.6	20.8	18.9	18.7	0.5
52.5°	8.0	8.3	8.0	8.7	8.7	8.5	8.7	8.5	8.3	7.3	0.0
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.8	2.6	2.8	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	9.5	8.3	6.9	5.7	5.2	5.0
5°	10.2	7.6	5.2	4.0	3.5	3.3
7.5°	10.9	6.9	4.0	2.8	2.1	1.9
10°	11.3	5.9	3.1	1.7	1.2	1.2
12.5°	11.3	4.7	2.1	0.9	0.7	0.7
15°	11.1	4.0	1.4	0.7	0.5	0.5
17.5°	10.9	3.1	0.9	0.5	0.2	0.5
20°	10.2	2.4	0.5	0.2	0.2	0.2
21°	9.9	2.1	0.5	0.2	0.2	0.2
22°	9.5	1.9	0.2	0.0	0.2	0.2
23°	9.0	1.4	0.2	0.0	0.0	0.0
24°	8.3	1.2	0.2	0.0	0.0	0.0
25°	7.8	1.2	0.2	0.0	0.0	0.0
26°	7.3	0.7	0.0	0.0	0.0	0.0
27°	6.6	0.5	0.0	0.0	0.0	0.0
28°	6.1	0.5	0.0	0.0	0.0	0.0
29°	5.4	0.5	0.0	0.0	0.0	0.0
30°	4.7	0.5	0.0	0.0	0.0	0.0
31°	3.8	0.2	0.0	0.0	0.0	0.0
32°	3.1	0.2	0.0	0.0	0.0	0.0
33°	2.1	0.2	0.0	0.0	0.0	0.0
34°	1.4	0.2	0.0	0.0	0.0	0.0
35°	1.2	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	0.9
55°	0.2	0.5	0.5	0.7	0.9	1.2
57.5°	0.2	0.7	0.7	0.9	1.2	1.2
60°	0.5	0.7	0.9	0.9	1.4	1.4
62.5°	0.5	0.9	0.9	0.9	1.4	1.4
65°	0.5	0.9	0.9	1.2	1.4	1.4
67.5°	0.5	0.9	0.9	0.9	1.2	1.4
70°	0.5	0.9	0.7	0.9	1.2	1.2
72.5°	0.5	0.9	0.7	0.7	0.9	1.2
75°	0.5	0.9	0.7	0.7	0.9	0.9
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)