

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: P1311519

Luminaire Tested: LDSQA3D13R459040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

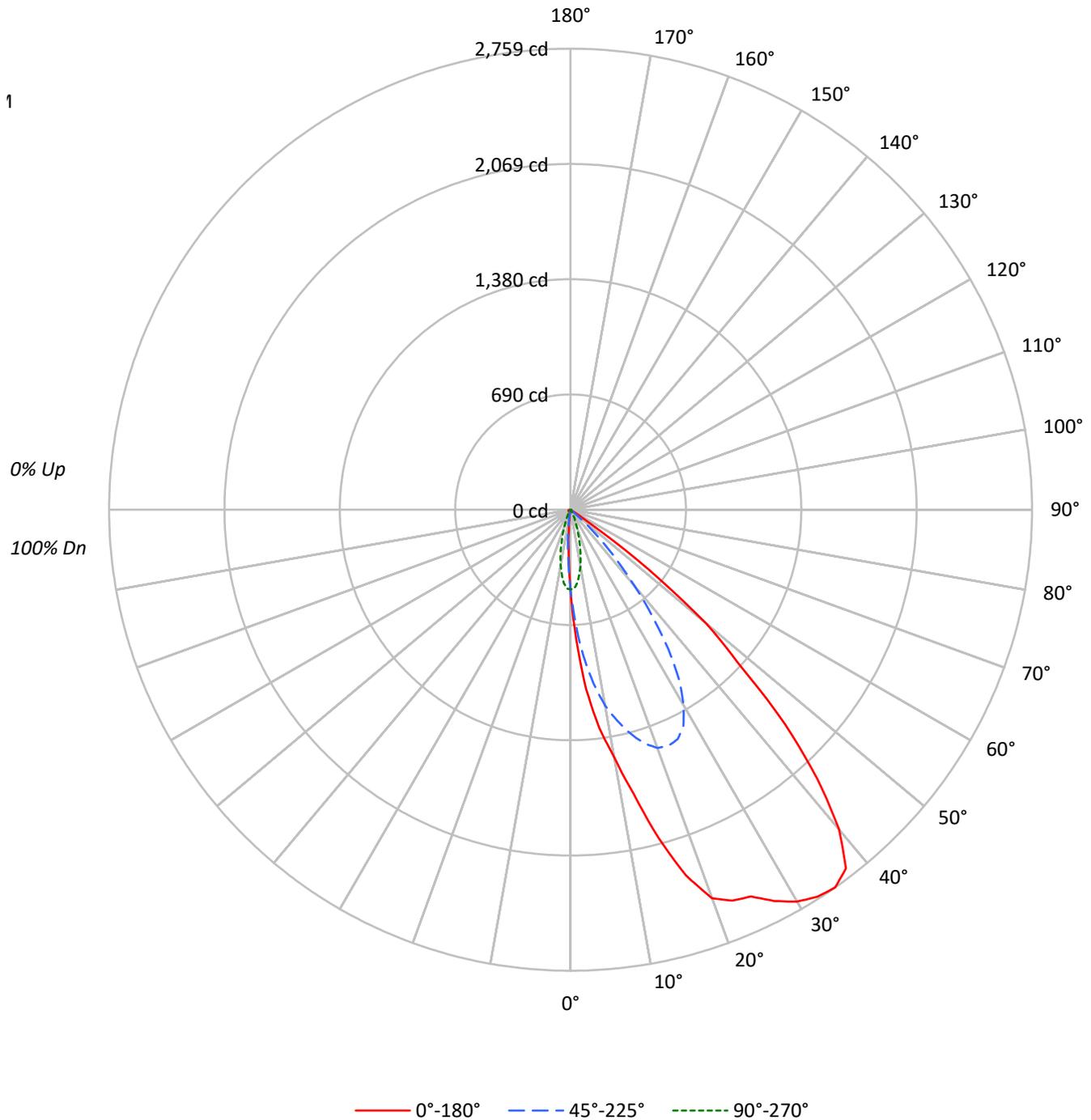
Test Method: LM-79-2019  
Report Number: P1311519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1250.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
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





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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	81926	81926	81926	81926	81926
5°	186694	151443	76621	30721	20970
10°	263071	208037	59232	6768	3113
15°	362533	247531	37835	2229	1872
20°	453314	278011	19739	1540	1540
25°	485100	287852	9140	1197	1387
30°	538429	268807	4156	1253	1452
35°	580024	214303	1325	1325	1766
40°	561242	132779	697	1641	2113
45°	440745	62644	755	2046	2557
50°	283176	7288	1125	2519	3349
55°	42997	631	1261	3153	4084
60°	723	723	1447	3617	4306
65°	856	856	1712	3831	5094
70°	1057	1057	2115	4230	5791
75°	665	1397	2795	4858	6255
80°	992	2083	3075	5157	7240
85°	0	1976	4150	6126	6126

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 440745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	4.2
10°-20°	188.2	15.1
20°-30°	330.6	26.5
30°-40°	375.5	30.0
40°-50°	243.1	19.4
50°-60°	47.7	3.8
60°-70°	5.8	0.5
70°-80°	4.8	0.4
80°-90°	2.2	0.2
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°	570.9	45.7
0°-40°	946.4	75.7
0°-60°	1237.2	99.0
0°-90°	1250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	476	476	476	476	476	
5°	1080	876	443	178	121	115
15°	2033	1388	212	12	10	586
25°	2553	1515	48	6	7	1197
35°	2759	1019	6	6	8	1696
45°	1810	257	3	8	10	1364
55°	143	2	4	10	14	273
65°	2	2	4	9	12	2
75°	1	2	4	7	9	1
85°	0	1	2	3	3	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	772.5	770.4	773.6	752.7	751.6	736.0	731.8	714.0	690.0	678.5	651.3
5°	1079.9	1069.4	1069.4	1044.3	1036.0	1018.2	987.9	950.3	918.9	876.0	830.0
7.5°	1317.2	1315.1	1315.1	1293.1	1272.2	1247.1	1206.4	1163.5	1113.3	1047.5	980.6
10°	1504.3	1507.4	1498.0	1478.2	1447.9	1420.7	1372.6	1320.3	1258.6	1189.6	1100.8
12.5°	1740.6	1717.6	1710.2	1665.3	1626.6	1574.3	1516.9	1457.3	1381.0	1294.2	1193.8
15°	2033.3	2004.0	1974.7	1915.1	1850.3	1769.8	1679.9	1592.1	1493.9	1388.3	1262.8
17.5°	2294.6	2294.6	2255.9	2161.9	2078.2	1959.1	1837.8	1720.7	1604.7	1465.6	1308.8
20°	2473.4	2464.0	2434.7	2365.7	2270.6	2135.7	1977.9	1813.7	1673.7	1516.9	1335.0
22.5°	2531.9	2529.8	2530.9	2490.1	2413.8	2273.7	2080.3	1886.9	1711.3	1529.4	1322.4
25°	2552.8	2557.0	2567.5	2551.8	2494.3	2354.2	2143.0	1921.4	1722.8	1514.8	1274.3
27.5°	2639.6	2631.2	2642.7	2632.3	2567.5	2400.2	2155.6	1913.1	1697.7	1461.4	1188.6
30°	2707.5	2705.5	2725.3	2715.9	2631.2	2429.5	2144.1	1881.7	1636.0	1351.7	1053.7
32.5°	2746.2	2747.3	2752.5	2713.8	2588.4	2365.7	2087.6	1817.9	1520.0	1208.5	878.1
35°	2758.8	2752.5	2723.2	2628.1	2456.7	2218.3	1948.6	1666.3	1362.1	1019.3	694.1
37.5°	2704.4	2672.0	2596.7	2454.6	2255.9	2033.3	1770.9	1475.0	1145.7	804.9	517.5
40°	2496.4	2453.5	2358.4	2213.1	2028.0	1812.7	1544.0	1234.6	888.6	590.6	363.8
42.5°	2184.9	2162.9	2063.6	1937.1	1780.3	1562.9	1285.8	972.2	657.5	407.7	232.1
45°	1809.6	1781.3	1718.6	1606.8	1483.4	1255.5	997.3	696.2	448.5	257.2	115.0
47.5°	1356.9	1359.0	1316.1	1231.5	1110.2	919.9	682.6	467.3	281.2	132.8	26.1
50°	1056.9	1042.2	981.6	894.8	753.7	612.6	441.2	294.8	148.4	27.2	2.1
52.5°	585.4	594.8	562.4	534.2	461.0	365.9	260.3	149.5	31.4	3.1	2.1
55°	143.2	151.6	145.3	148.4	153.7	136.9	105.6	29.3	3.1	2.1	2.1
57.5°	3.1	3.1	3.1	3.1	5.2	7.3	7.3	2.1	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	637.7	617.8	581.2	472.5	379.5	306.3	262.4	258.2
5°	789.3	736.0	658.6	443.2	280.2	177.7	128.6	121.3
7.5°	909.5	834.2	715.0	395.2	191.3	90.9	50.2	41.8
10°	1008.8	902.2	744.3	338.7	120.2	38.7	20.9	17.8
12.5°	1076.7	948.2	749.5	276.0	69.0	18.8	13.6	12.5
15°	1120.7	962.8	724.5	212.2	38.7	12.5	11.5	10.5
17.5°	1138.4	950.3	676.4	153.7	20.9	9.4	9.4	9.4
20°	1130.1	909.5	605.3	107.7	13.6	8.4	8.4	8.4
22.5°	1090.3	839.4	516.4	72.1	9.4	7.3	7.3	7.3
25°	1011.9	744.3	422.3	48.1	6.3	6.3	7.3	7.3
27.5°	894.8	627.2	323.0	32.4	5.2	6.3	7.3	7.3
30°	747.5	496.6	232.1	20.9	5.2	6.3	6.3	7.3
32.5°	593.8	361.7	152.6	12.5	4.2	6.3	7.3	8.4
35°	430.7	246.7	97.2	6.3	5.2	6.3	7.3	8.4
37.5°	302.1	161.0	56.5	4.2	5.2	6.3	8.4	8.4
40°	196.5	89.9	20.9	3.1	5.2	7.3	8.4	9.4
42.5°	102.4	31.4	4.2	3.1	5.2	7.3	9.4	10.5
45°	26.1	4.2	1.0	3.1	6.3	8.4	10.5	10.5
47.5°	3.1	1.0	1.0	4.2	6.3	9.4	10.5	11.5
50°	1.0	2.1	2.1	4.2	6.3	9.4	11.5	12.5
52.5°	2.1	2.1	2.1	4.2	7.3	9.4	12.5	13.6
55°	2.1	2.1	2.1	4.2	7.3	10.5	12.5	13.6
57.5°	2.1	2.1	2.1	4.2	7.3	10.5	12.5	12.5
60°	2.1	2.1	2.1	4.2	7.3	10.5	12.5	12.5
62.5°	2.1	2.1	3.1	4.2	7.3	9.4	12.5	12.5
65°	2.1	3.1	3.1	4.2	7.3	9.4	11.5	12.5
67.5°	2.1	2.1	3.1	4.2	7.3	9.4	11.5	12.5
70°	2.1	2.1	3.1	4.2	6.3	8.4	10.5	11.5
72.5°	2.1	2.1	3.1	4.2	6.3	8.4	9.4	10.5
75°	2.1	2.1	3.1	4.2	5.2	7.3	9.4	9.4
77.5°	2.1	2.1	3.1	3.1	5.2	6.3	8.4	8.4
80°	2.1	2.1	3.1	3.1	4.2	5.2	6.3	7.3
82.5°	2.1	2.1	2.1	3.1	3.1	4.2	5.2	5.2
85°	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1
87.5°	1.0	2.1	2.1	2.1	2.1	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)