

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: P1315479

Luminaire Tested: LDSQA3D09R409735DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

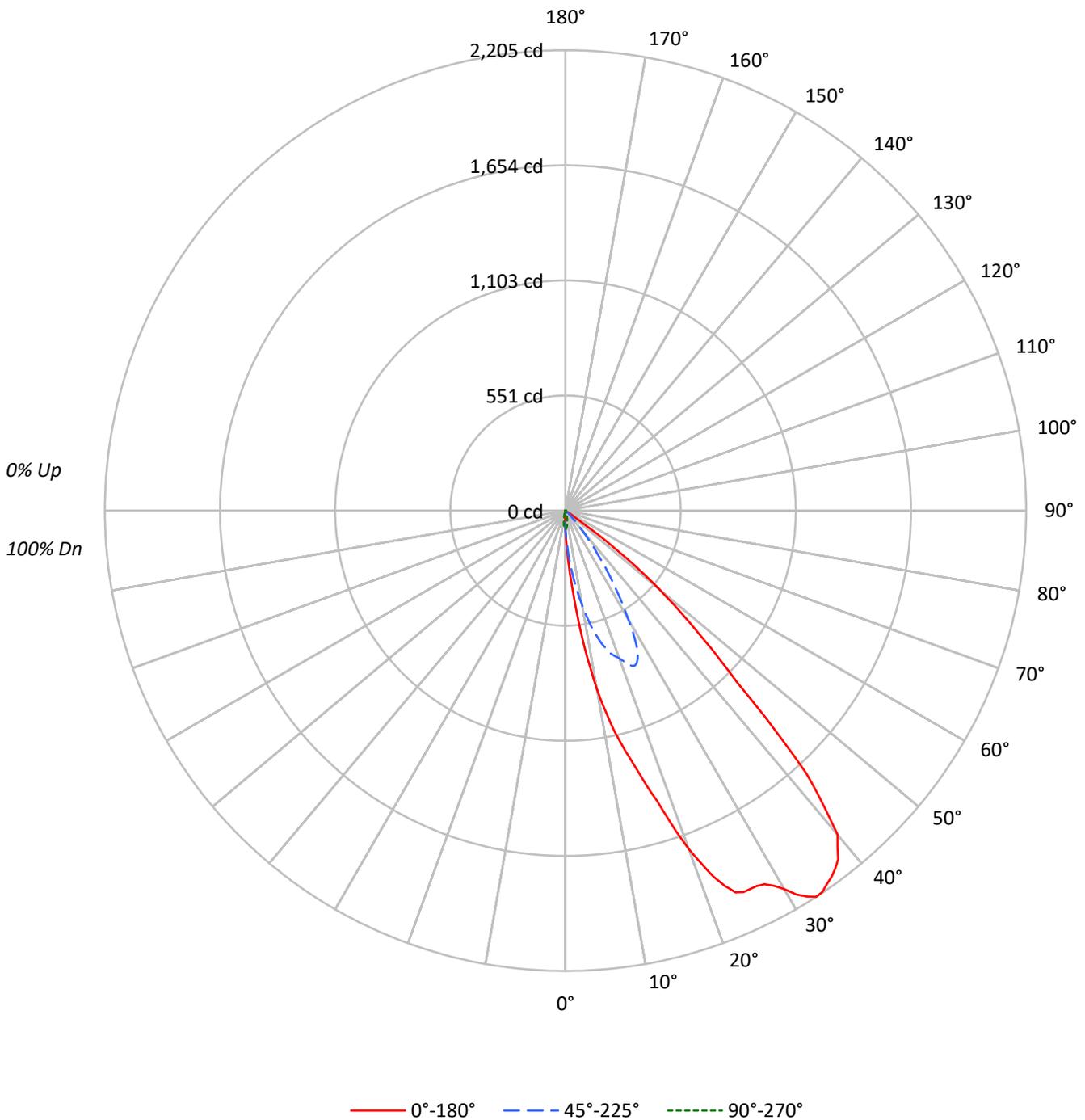
Test Method: LM-79-2019  
Report Number: P1315479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409735DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 740.0 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.1  
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				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	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	14914	14914	14914	14914	14914
5°	63274	43116	13070	2351	1176
10°	152075	80200	8097	245	0
15°	223817	116536	3405	0	0
20°	316370	138135	1246	0	0
25°	383208	153333	0	0	0
30°	416067	119936	0	0	0
35°	458797	70201	0	0	0
40°	455352	28507	0	0	0
45°	282018	8305	0	0	0
50°	157034	188	0	0	0
55°	15343	0	0	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	352	705	0	0
75°	0	466	932	0	0
80°	0	694	1389	0	0
85°	0	1383	2766	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 283333 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.2	2.2
10°-20°	95.4	12.9
20°-30°	217.7	29.4
30°-40°	257.1	34.7
40°-50°	137.4	18.6
50°-60°	14.9	2.0
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.5	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°	329.3	44.5
0°-40°	586.4	79.2
0°-60°	738.7	99.8
0°-90°	740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	366	249	76	14	7	51
15°	1255	654	19	0	0	373
25°	2017	807	0	0	0	916
35°	2182	334	0	0	0	1348
45°	1158	34	0	0	0	955
55°	51	0	0	0	0	143
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
2.5°	201.7	197.6	200.4	194.9	194.9	182.6	183.3	173.1	158.1	120.6	85.9
5°	366.0	382.3	369.4	352.3	342.8	330.5	314.2	297.1	249.4	150.6	75.6
7.5°	612.7	611.3	589.5	571.1	550.0	517.3	486.6	445.0	355.1	172.4	62.7
10°	869.6	864.8	840.3	824.6	784.4	737.4	674.7	607.9	458.6	179.9	46.3
12.5°	1083.6	1077.4	1057.0	1030.4	986.1	926.8	859.4	771.5	567.7	171.7	30.0
15°	1255.3	1254.0	1234.2	1198.1	1151.7	1093.8	1017.5	911.8	653.6	150.6	19.1
17.5°	1459.1	1467.3	1431.8	1393.0	1326.2	1245.1	1151.7	1031.1	716.9	124.7	12.3
20°	1726.2	1714.6	1681.9	1625.4	1561.3	1463.9	1331.6	1159.2	753.7	96.8	6.8
21°	1808.0	1803.2	1769.2	1716.7	1645.8	1547.0	1410.7	1224.7	770.8	86.6	5.5
22°	1891.2	1883.0	1856.4	1805.3	1738.5	1626.7	1476.8	1292.1	792.6	75.6	3.4
23°	1953.2	1949.8	1929.3	1878.9	1810.1	1701.7	1548.4	1354.8	807.6	65.4	2.0
24°	2000.9	1996.8	1976.3	1938.2	1878.9	1765.8	1620.6	1422.3	813.7	56.6	0.7
25°	2016.6	2018.6	2006.3	1976.3	1926.6	1813.5	1674.4	1475.4	806.9	48.4	0.0
26°	2017.2	2023.4	2014.5	1997.5	1956.6	1851.6	1724.9	1506.8	789.2	40.9	0.0
27°	2017.2	2023.4	2014.5	2001.6	1961.4	1873.4	1752.1	1510.2	761.9	34.8	0.0
28°	2026.8	2030.2	2018.6	2002.9	1959.3	1880.3	1759.6	1489.8	718.3	30.0	0.0
29°	2053.4	2049.9	2030.9	2009.7	1957.3	1880.3	1737.1	1450.9	663.8	25.2	0.0
30°	2092.2	2092.2	2062.2	2028.8	1966.8	1879.6	1701.0	1380.7	603.1	20.4	0.0
31°	2144.7	2139.9	2109.9	2060.2	1987.2	1879.6	1647.9	1303.0	547.2	17.7	0.0
32°	2180.1	2177.4	2148.8	2090.2	2020.6	1879.6	1590.6	1217.2	486.6	14.3	0.0
33°	2204.6	2199.2	2166.5	2105.8	2041.1	1870.0	1526.6	1125.2	432.1	11.6	0.0
34°	2201.2	2199.9	2165.8	2103.1	2037.0	1830.5	1452.3	1022.9	381.6	9.5	0.0
35°	2182.2	2182.2	2140.6	2075.8	2007.7	1772.6	1378.7	935.7	333.9	6.8	0.0
36°	2167.8	2162.4	2115.4	2043.1	1958.6	1681.3	1269.6	847.8	282.8	5.5	0.0
37°	2146.7	2136.5	2084.0	2006.3	1889.1	1582.4	1155.1	769.4	239.2	3.4	0.0
38°	2119.5	2103.8	2039.7	1963.4	1812.8	1468.6	1038.6	681.5	199.0	2.0	0.0
39°	2069.7	2056.8	1990.7	1908.2	1721.5	1348.7	925.5	599.0	160.8	0.7	0.0
40°	2025.4	2002.9	1928.0	1833.2	1614.5	1213.1	813.0	517.9	126.8	0.0	0.0
42.5°	1707.8	1684.0	1666.9	1572.9	1286.0	871.0	567.7	331.9	66.1	0.0	0.0
45°	1157.9	1163.3	1110.2	1046.8	848.5	567.7	355.1	184.7	34.1	0.0	0.0
47.5°	844.4	830.1	757.8	637.9	497.5	331.9	185.4	89.3	13.6	0.0	0.0
50°	586.1	558.8	493.4	403.4	270.6	158.1	81.8	41.6	0.7	0.0	0.0
52.5°	318.3	299.2	253.5	184.0	112.4	60.7	32.7	17.0	0.0	0.0	0.0
55°	51.1	35.4	36.8	31.3	24.5	17.7	10.2	2.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
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):**

	112.5°	135°	157.5°	180°
0°	86.6	86.6	86.6	86.6
2.5°	57.9	39.5	30.0	25.9
5°	33.4	13.6	7.5	6.8
7.5°	16.4	4.8	2.7	2.7
10°	6.8	1.4	0.0	0.0
12.5°	2.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.7	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)