

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: P1311349

Luminaire Tested: LDSQA3D09R459040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R459040DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

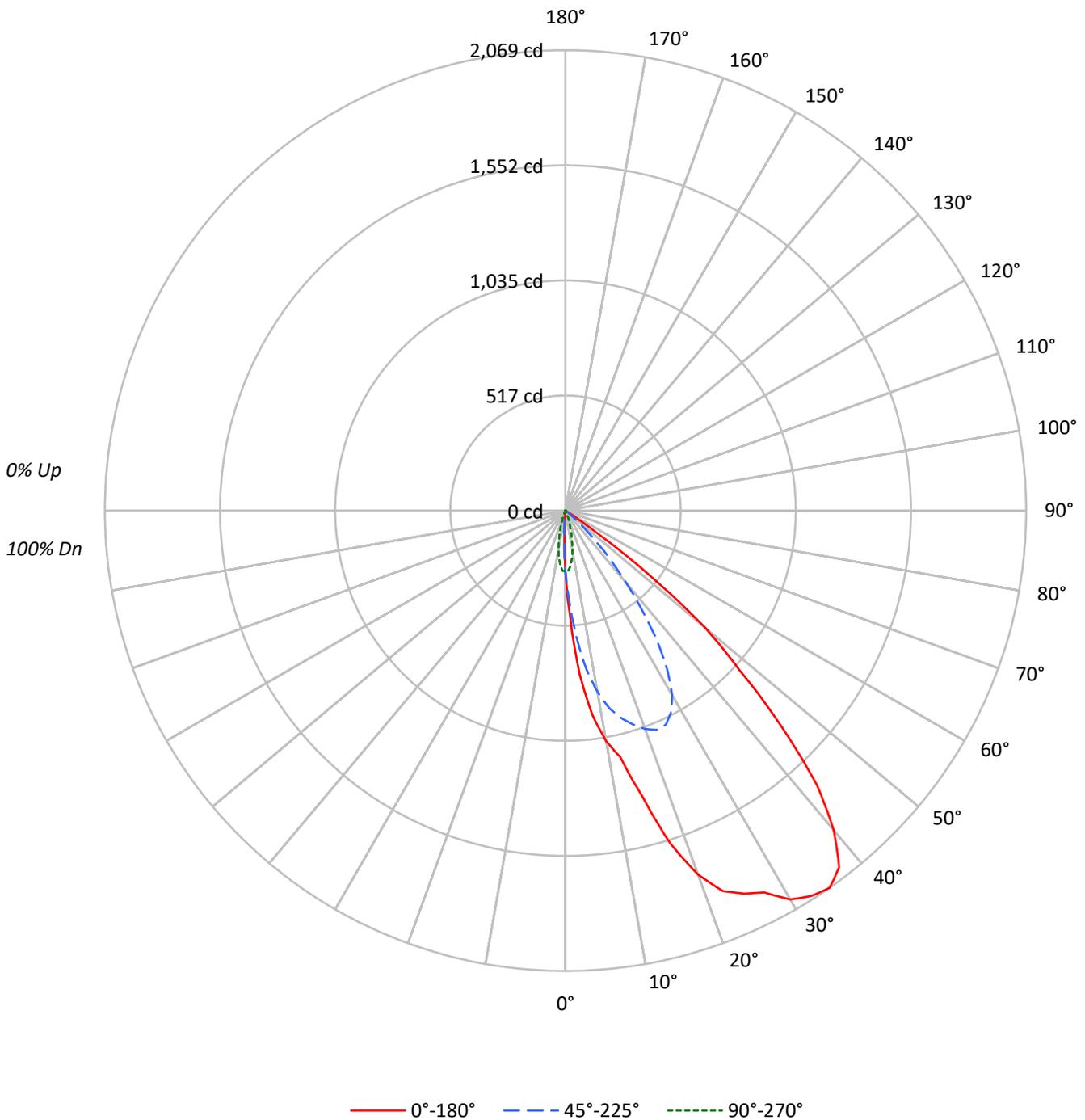
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 877.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26  
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 (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





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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	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	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	63	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	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	46913	46913	46913	46913	46913
5°	128070	98525	43410	8713	3267
10°	183921	144555	31391	822	682
15°	236780	171933	16707	285	0
20°	319138	191303	6341	0	0
25°	360956	202093	1653	0	0
30°	401231	190513	159	0	0
35°	434955	151944	0	0	0
40°	421561	95391	0	0	0
45°	334188	45448	0	0	0
50°	218712	5707	0	0	0
55°	37593	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	806	0	0
75°	0	532	1065	0	0
80°	0	793	1587	793	0
85°	0	1581	3162	1581	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 334188 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.4	3.7
10°-20°	124.9	14.2
20°-30°	233.9	26.7
30°-40°	273.0	31.1
40°-50°	178.0	20.3
50°-60°	33.1	3.8
60°-70°	0.3	0.0
70°-80°	0.7	0.1
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°	391.2	44.6
0°-40°	664.2	75.7
0°-60°	875.3	99.8
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	272	272	272	272	272	
5°	741	570	251	50	19	79
15°	1328	964	94	2	0	396
25°	1900	1064	9	0	0	878
35°	2069	723	0	0	0	1269
45°	1372	187	0	0	0	1043
55°	125	0	0	0	0	218
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	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°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	480.2	484.1	476.3	473.1	462.9	465.2	447.9	440.8	429.8	411.7	403.0
5°	740.8	733.7	727.4	714.0	706.1	684.9	661.3	634.5	602.2	569.9	532.9
7.5°	926.5	921.0	918.7	907.6	891.9	869.9	839.2	805.3	763.6	720.3	664.4
10°	1051.7	1046.2	1036.7	1025.7	1013.1	995.0	965.1	928.1	882.5	826.6	761.2
12.5°	1133.6	1132.8	1117.0	1104.4	1088.7	1073.0	1042.3	1012.3	967.5	910.0	836.0
15°	1328.0	1315.4	1295.0	1259.5	1215.4	1174.5	1124.9	1077.7	1028.9	964.3	881.7
17.5°	1570.5	1556.3	1521.7	1476.8	1405.9	1328.0	1243.0	1168.2	1095.0	1007.6	910.0
20°	1741.3	1735.8	1706.7	1654.7	1579.1	1476.0	1364.2	1258.7	1155.6	1043.8	923.4
22.5°	1850.7	1847.6	1835.8	1800.3	1723.2	1607.5	1463.4	1321.7	1197.3	1066.7	919.5
25°	1899.5	1903.5	1905.0	1887.7	1825.5	1707.4	1536.6	1369.7	1221.0	1063.5	889.5
27.5°	1934.2	1934.2	1940.5	1932.6	1869.6	1745.2	1565.0	1386.3	1213.1	1024.9	826.6
30°	2017.6	2016.0	2020.0	1998.7	1911.3	1757.0	1552.4	1359.5	1168.2	958.0	736.0
32.5°	2053.8	2055.4	2054.6	2020.8	1919.2	1749.2	1521.7	1308.3	1085.6	853.3	616.4
35°	2068.8	2061.7	2032.6	1955.4	1827.1	1644.5	1435.1	1221.7	969.8	722.7	486.5
37.5°	2019.2	1998.7	1934.2	1828.7	1672.0	1496.5	1291.8	1066.7	816.3	566.8	366.1
40°	1875.1	1848.4	1767.3	1639.7	1496.5	1338.2	1122.6	884.8	638.4	424.3	256.6
42.5°	1671.2	1640.5	1553.2	1442.2	1311.5	1145.4	930.5	692.7	467.6	292.8	163.0
45°	1372.1	1354.8	1304.4	1210.7	1082.4	910.0	713.2	505.4	323.5	186.6	83.4
47.5°	1061.2	1039.1	1002.9	938.3	831.3	667.5	499.1	343.2	207.8	92.1	17.3
50°	816.3	790.4	746.3	674.6	562.9	445.6	323.5	214.1	105.5	21.3	0.8
52.5°	470.0	475.5	454.2	408.6	346.4	266.9	187.4	107.8	23.6	0.8	0.0
55°	125.2	135.4	132.3	142.5	125.2	105.5	77.9	20.5	1.6	0.0	0.0
57.5°	0.0	0.0	0.8	1.6	4.7	7.1	2.4	0.8	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	383.4	366.8	346.4	270.8	203.9	146.4	114.1	105.5
5°	497.5	457.4	405.4	251.1	126.0	50.4	22.8	18.9
7.5°	605.4	546.3	452.6	219.6	63.8	12.6	6.3	5.5
10°	688.8	609.3	487.3	179.5	23.6	4.7	3.9	3.9
12.5°	746.3	649.4	499.9	136.2	8.7	2.4	2.4	1.6
15°	779.3	665.2	488.1	93.7	3.1	1.6	0.0	0.0
17.5°	789.6	658.9	456.6	59.0	0.8	0.0	0.0	0.0
20°	780.9	628.2	407.0	34.6	0.0	0.0	0.0	0.0
22.5°	752.6	580.2	347.2	18.9	0.0	0.0	0.0	0.0
25°	699.8	512.5	277.1	8.7	0.0	0.0	0.0	0.0
27.5°	614.0	425.1	208.6	3.1	0.0	0.0	0.0	0.0
30°	516.4	331.4	148.0	0.8	0.0	0.0	0.0	0.0
32.5°	403.0	244.0	95.3	0.0	0.0	0.0	0.0	0.0
35°	303.1	170.8	56.7	0.0	0.0	0.0	0.0	0.0
37.5°	211.0	107.8	29.9	0.0	0.0	0.0	0.0	0.0
40°	131.5	58.3	10.2	0.0	0.0	0.0	0.0	0.0
42.5°	73.2	20.5	0.8	0.0	0.0	0.0	0.0	0.0
45°	17.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
70°	0.8	0.8	0.8	1.6	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0
75°	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0
77.5°	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0
80°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
82.5°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
85°	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0
87.5°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)