

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: P1319988

Luminaire Tested: LDSQA3D09R409840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319988  
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: LDSQA3D09R409840DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

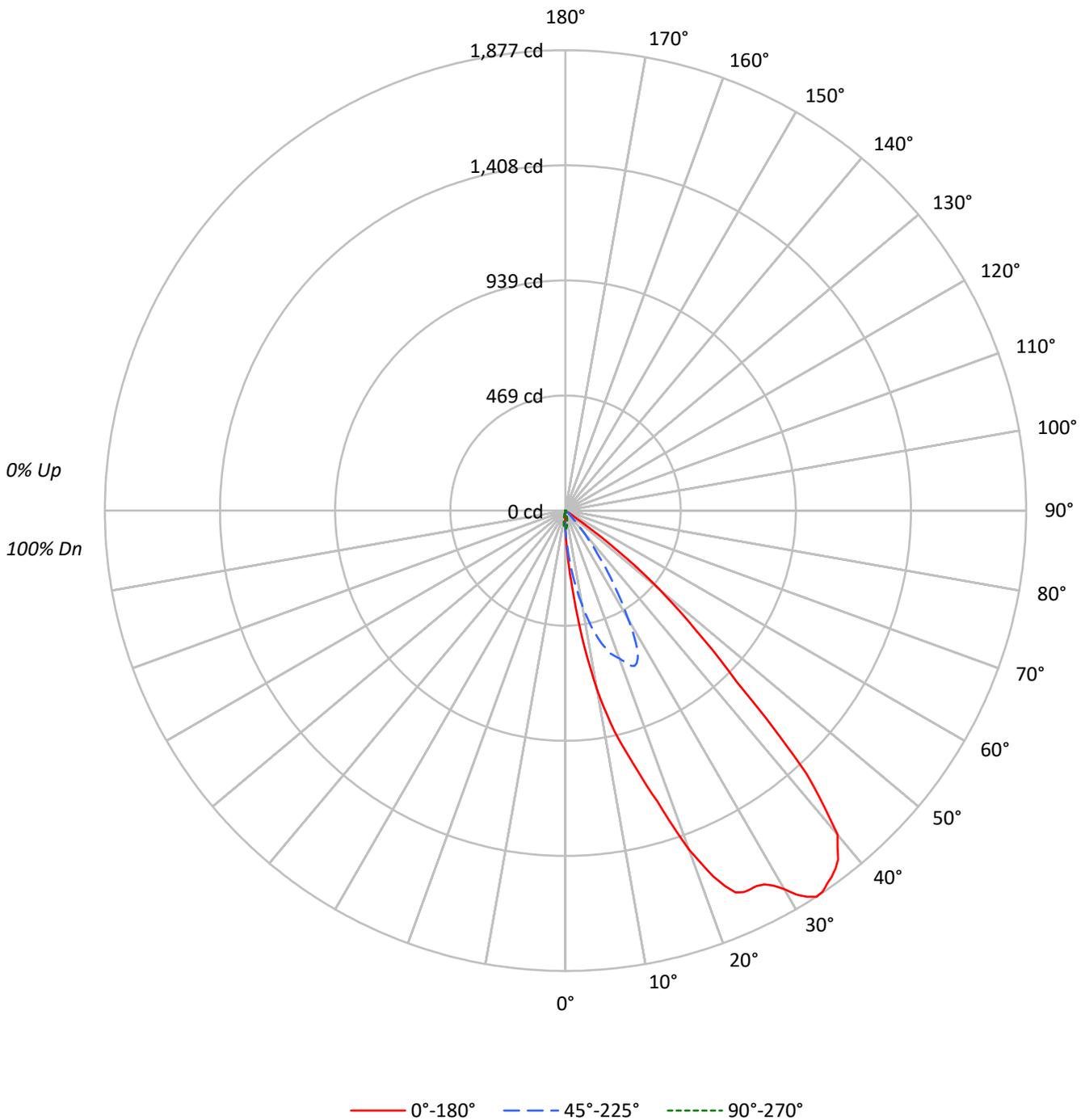
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 630.0 lumens  
Efficiency: N/A  
Efficacy: 57.3 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  
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				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	80	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°	12693	12693	12693	12693	12693
5°	53870	36720	11134	2005	1003
10°	129463	68290	6908	210	0
15°	190547	99205	2888	0	0
20°	269342	117608	1063	0	0
25°	326238	130548	0	0	0
30°	354219	102117	0	0	0
35°	390593	59773	0	0	0
40°	387658	24258	0	0	0
45°	240101	7063	0	0	0
50°	133698	161	0	0	0
55°	13061	0	0	0	0
60°	0	0	207	0	0
65°	0	0	245	0	0
70°	0	302	604	0	0
75°	0	399	799	0	0
80°	0	595	1190	0	0
85°	0	1186	2371	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 241221 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.8	2.2
10°-20°	81.2	12.9
20°-30°	185.4	29.4
30°-40°	218.9	34.7
40°-50°	116.9	18.6
50°-60°	12.7	2.0
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.4	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	44.5
0°-40°	499.2	79.2
0°-60°	628.9	99.8
0°-90°	630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	312	212	64	12	6	44
15°	1069	556	16	0	0	317
25°	1717	687	0	0	0	780
35°	1858	284	0	0	0	1148
45°	986	29	0	0	0	813
55°	44	0	0	0	0	122
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°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
2.5°	171.7	168.3	170.6	165.9	165.9	155.5	156.1	147.4	134.6	102.7	73.1
5°	311.6	325.5	314.5	300.0	291.8	281.4	267.5	253.0	212.4	128.2	64.4
7.5°	521.6	520.4	501.9	486.2	468.2	440.4	414.3	378.9	302.3	146.8	53.4
10°	740.3	736.3	715.4	702.0	667.8	627.8	574.4	517.5	390.5	153.2	39.5
12.5°	922.5	917.3	899.9	877.3	839.5	789.1	731.6	656.8	483.3	146.2	25.5
15°	1068.7	1067.6	1050.7	1020.0	980.5	931.2	866.2	776.3	556.4	128.2	16.2
17.5°	1242.2	1249.2	1219.0	1185.9	1129.1	1060.0	980.5	877.8	610.4	106.2	10.4
20°	1469.6	1459.8	1431.9	1383.8	1329.2	1246.3	1133.7	986.9	641.7	82.4	5.8
21°	1539.3	1535.2	1506.2	1461.5	1401.2	1317.0	1201.0	1042.6	656.2	73.7	4.6
22°	1610.0	1603.1	1580.4	1536.9	1480.1	1384.9	1257.3	1100.0	674.8	64.4	2.9
23°	1662.8	1659.9	1642.5	1599.6	1541.0	1448.7	1318.2	1153.4	687.5	55.7	1.7
24°	1703.5	1700.0	1682.6	1650.1	1599.6	1503.3	1379.7	1210.9	692.8	48.2	0.6
25°	1716.8	1718.5	1708.1	1682.6	1640.2	1543.9	1425.5	1256.1	687.0	41.2	0.0
26°	1717.4	1722.6	1715.1	1700.5	1665.7	1576.4	1468.5	1282.8	671.9	34.8	0.0
27°	1717.4	1722.6	1715.1	1704.0	1669.8	1595.0	1491.7	1285.7	648.7	29.6	0.0
28°	1725.5	1728.4	1718.5	1705.2	1668.1	1600.8	1498.1	1268.3	611.5	25.5	0.0
29°	1748.1	1745.2	1729.0	1711.0	1666.3	1600.8	1478.9	1235.2	565.1	21.5	0.0
30°	1781.2	1781.2	1755.7	1727.2	1674.4	1600.2	1448.2	1175.5	513.5	17.4	0.0
31°	1825.9	1821.8	1796.3	1753.9	1691.8	1600.2	1402.9	1109.3	465.9	15.1	0.0
32°	1856.0	1853.7	1829.4	1779.5	1720.3	1600.2	1354.2	1036.2	414.3	12.2	0.0
33°	1876.9	1872.3	1844.4	1792.8	1737.7	1592.1	1299.6	957.9	367.8	9.9	0.0
34°	1874.0	1872.9	1843.9	1790.5	1734.2	1558.4	1236.4	870.9	324.9	8.1	0.0
35°	1857.8	1857.8	1822.4	1767.3	1709.3	1509.1	1173.7	796.6	284.3	5.8	0.0
36°	1845.6	1841.0	1800.9	1739.4	1667.5	1431.3	1080.9	721.8	240.8	4.6	0.0
37°	1827.6	1818.9	1774.2	1708.1	1608.3	1347.2	983.4	655.0	203.6	2.9	0.0
38°	1804.4	1791.1	1736.5	1671.5	1543.3	1250.3	884.2	580.2	169.4	1.7	0.0
39°	1762.1	1751.0	1694.7	1624.5	1465.6	1148.2	787.9	510.0	136.9	0.6	0.0
40°	1724.3	1705.2	1641.4	1560.7	1374.5	1032.7	692.2	440.9	107.9	0.0	0.0
42.5°	1454.0	1433.7	1419.2	1339.1	1094.8	741.5	483.3	282.6	56.3	0.0	0.0
45°	985.8	990.4	945.1	891.2	722.3	483.3	302.3	157.2	29.0	0.0	0.0
47.5°	718.9	706.7	645.2	543.1	423.5	282.6	157.8	76.0	11.6	0.0	0.0
50°	499.0	475.8	420.1	343.5	230.3	134.6	69.6	35.4	0.6	0.0	0.0
52.5°	271.0	254.7	215.8	156.7	95.7	51.6	27.8	14.5	0.0	0.0	0.0
55°	43.5	30.2	31.3	26.7	20.9	15.1	8.7	1.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2



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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	0.6	0.6	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2
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):**

	112.5°	135°	157.5°	180°
0°	73.7	73.7	73.7	73.7
2.5°	49.3	33.7	25.5	22.0
5°	28.4	11.6	6.4	5.8
7.5°	13.9	4.1	2.3	2.3
10°	5.8	1.2	0.0	0.0
12.5°	1.7	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°	0.6	0.0	0.0	0.0
67.5°	0.6	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.0
72.5°	0.6	0.0	0.0	0.0
75°	0.6	0.0	0.0	0.0
77.5°	0.6	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.6	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)