

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: P1319112

Luminaire Tested: LDSQA3D09R409835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

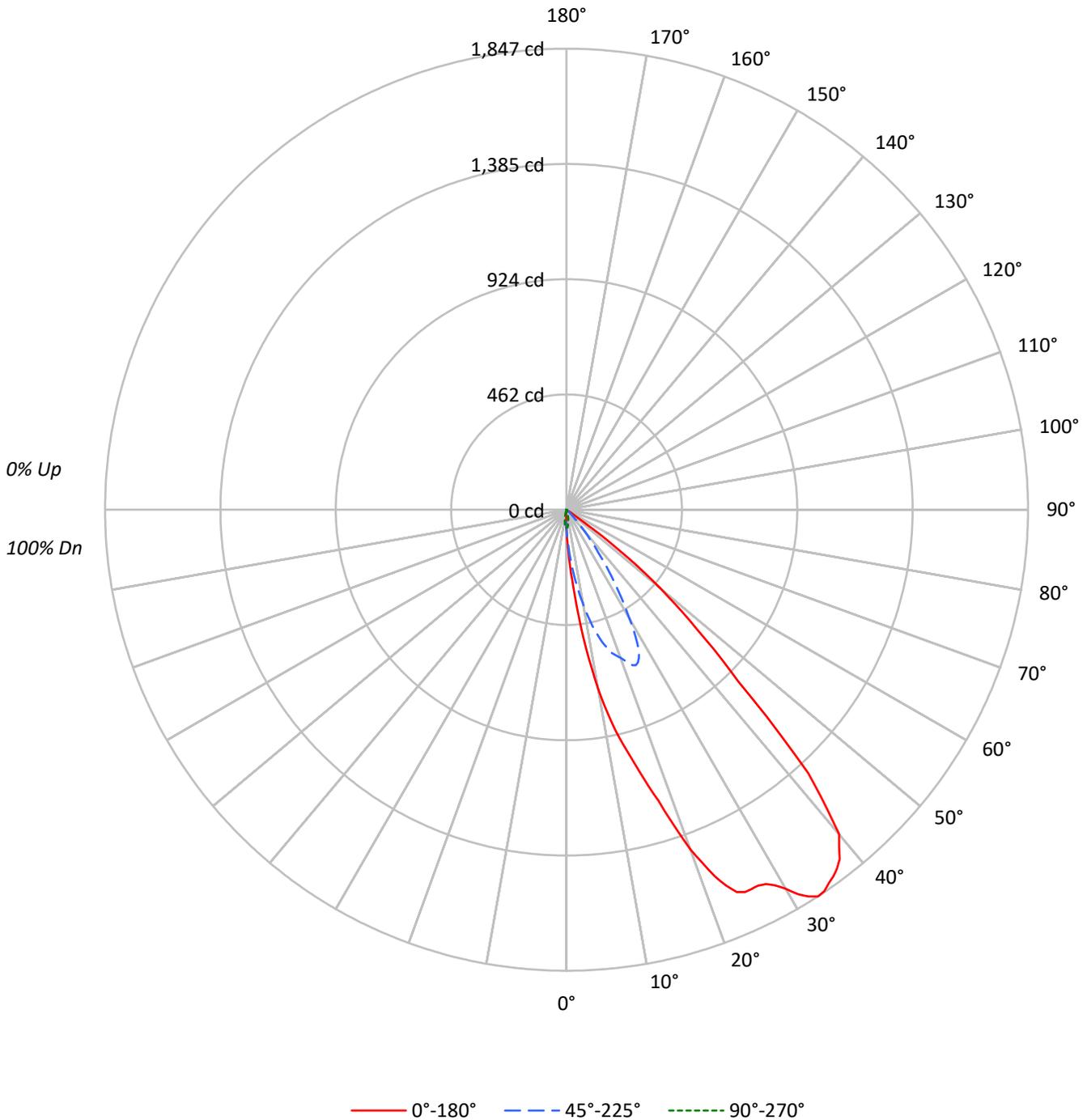
Test Method: LM-79-2019  
Report Number: P1319112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409835DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 620.0 lumens  
Efficiency: N/A  
Efficacy: 56.4 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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CATALOG NUMBER: LDSQA3D09R409835DE010 3LSQCA30R 1MB

### 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°	12486	12486	12486	12486	12486
5°	53005	36132	10961	1971	985
10°	127417	67206	6785	192	0
15°	187534	97636	2853	0	0
20°	265071	115738	1045	0	0
25°	321050	128458	0	0	0
30°	348591	100487	0	0	0
35°	384391	58827	0	0	0
40°	381521	23876	0	0	0
45°	236277	6941	0	0	0
50°	131554	161	0	0	0
55°	12851	0	0	0	0
60°	0	0	207	0	0
65°	0	0	245	0	0
70°	0	302	554	0	0
75°	0	399	732	0	0
80°	0	595	1091	0	0
85°	0	1186	2174	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 237398 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	2.2
10°-20°	79.9	12.9
20°-30°	182.4	29.4
30°-40°	215.4	34.7
40°-50°	115.1	18.6
50°-60°	12.5	2.0
60°-70°	0.3	0.0
70°-80°	0.4	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°	275.9	44.5
0°-40°	491.3	79.2
0°-60°	618.9	99.8
0°-90°	620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	307	209	63	11	6	43
15°	1052	548	16	0	0	312
25°	1690	676	0	0	0	767
35°	1828	280	0	0	0	1129
45°	970	28	0	0	0	800
55°	43	0	0	0	0	120
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°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	169.0	165.6	167.9	163.3	163.3	153.0	153.6	145.0	132.5	101.1	71.9
5°	306.6	320.3	309.5	295.2	287.2	276.9	263.2	248.9	209.0	126.2	63.4
7.5°	513.3	512.2	493.9	478.5	460.8	433.4	407.7	372.9	297.5	144.5	52.5
10°	728.6	724.6	704.0	690.9	657.2	617.8	565.3	509.3	384.3	150.7	38.8
12.5°	907.9	902.7	885.6	863.3	826.2	776.5	720.0	646.4	475.6	143.9	25.1
15°	1051.8	1050.6	1034.1	1003.8	965.0	916.4	852.5	764.0	547.6	126.2	16.0
17.5°	1222.5	1229.3	1199.6	1167.1	1111.1	1043.2	965.0	863.9	600.7	104.5	10.3
20°	1446.3	1436.6	1409.2	1361.8	1308.1	1226.5	1115.7	971.2	631.5	81.1	5.7
21°	1514.8	1510.8	1482.3	1438.3	1378.9	1296.1	1181.9	1026.1	645.8	72.5	4.6
22°	1584.5	1577.6	1555.4	1512.5	1456.6	1362.9	1237.3	1082.6	664.1	63.4	2.9
23°	1636.4	1633.6	1616.5	1574.2	1516.5	1425.7	1297.3	1135.1	676.6	54.8	1.7
24°	1676.4	1673.0	1655.9	1623.9	1574.2	1479.4	1357.8	1191.6	681.8	47.4	0.6
25°	1689.5	1691.3	1681.0	1655.9	1614.2	1519.4	1402.9	1236.2	676.0	40.5	0.0
26°	1690.1	1695.3	1687.8	1673.6	1639.3	1551.4	1445.2	1262.4	661.2	34.3	0.0
27°	1690.1	1695.3	1687.8	1677.0	1643.3	1569.6	1468.0	1265.3	638.4	29.1	0.0
28°	1698.1	1701.0	1691.3	1678.1	1641.6	1575.3	1474.3	1248.2	601.8	25.1	0.0
29°	1720.4	1717.5	1701.5	1683.8	1639.9	1575.3	1455.4	1215.6	556.1	21.1	0.0
30°	1752.9	1752.9	1727.8	1699.8	1647.9	1574.8	1425.2	1156.8	505.3	17.1	0.0
31°	1796.9	1792.9	1767.8	1726.1	1665.0	1574.8	1380.6	1091.7	458.5	14.8	0.0
32°	1826.6	1824.3	1800.3	1751.2	1693.0	1574.8	1332.7	1019.8	407.7	12.0	0.0
33°	1847.1	1842.6	1815.2	1764.3	1710.1	1566.8	1279.0	942.7	362.0	9.7	0.0
34°	1844.3	1843.1	1814.6	1762.1	1706.7	1533.7	1216.8	857.0	319.8	8.0	0.0
35°	1828.3	1828.3	1793.5	1739.2	1682.1	1485.1	1155.1	784.0	279.8	5.7	0.0
36°	1816.3	1811.7	1772.3	1711.8	1641.0	1408.6	1063.7	710.3	237.0	4.6	0.0
37°	1798.6	1790.0	1746.1	1681.0	1582.8	1325.8	967.8	644.6	200.4	2.9	0.0
38°	1775.8	1762.6	1709.0	1645.0	1518.8	1230.5	870.2	571.0	166.7	1.7	0.0
39°	1734.1	1723.2	1667.8	1598.8	1442.3	1130.0	775.4	501.9	134.8	0.6	0.0
40°	1697.0	1678.1	1615.3	1535.9	1352.7	1016.4	681.2	433.9	106.2	0.0	0.0
42.5°	1430.9	1410.9	1396.6	1317.8	1077.4	729.7	475.6	278.1	55.4	0.0	0.0
45°	970.1	974.7	930.1	877.0	710.9	475.6	297.5	154.7	28.5	0.0	0.0
47.5°	707.5	695.5	634.9	534.4	416.8	278.1	155.3	74.8	11.4	0.0	0.0
50°	491.0	468.2	413.4	338.0	226.7	132.5	68.5	34.8	0.6	0.0	0.0
52.5°	266.6	250.7	212.4	154.2	94.2	50.8	27.4	14.3	0.0	0.0	0.0
55°	42.8	29.7	30.8	26.3	20.6	14.8	8.6	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	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.1	1.1



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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	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.1	1.1
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°	72.5	72.5	72.5	72.5
2.5°	48.5	33.1	25.1	21.7
5°	28.0	11.4	6.3	5.7
7.5°	13.7	4.0	2.3	2.3
10°	5.7	1.1	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)