

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: P1313536

Luminaire Tested: LDSQA3D09R409727DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313536  
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: LDSQA3D09R409727DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

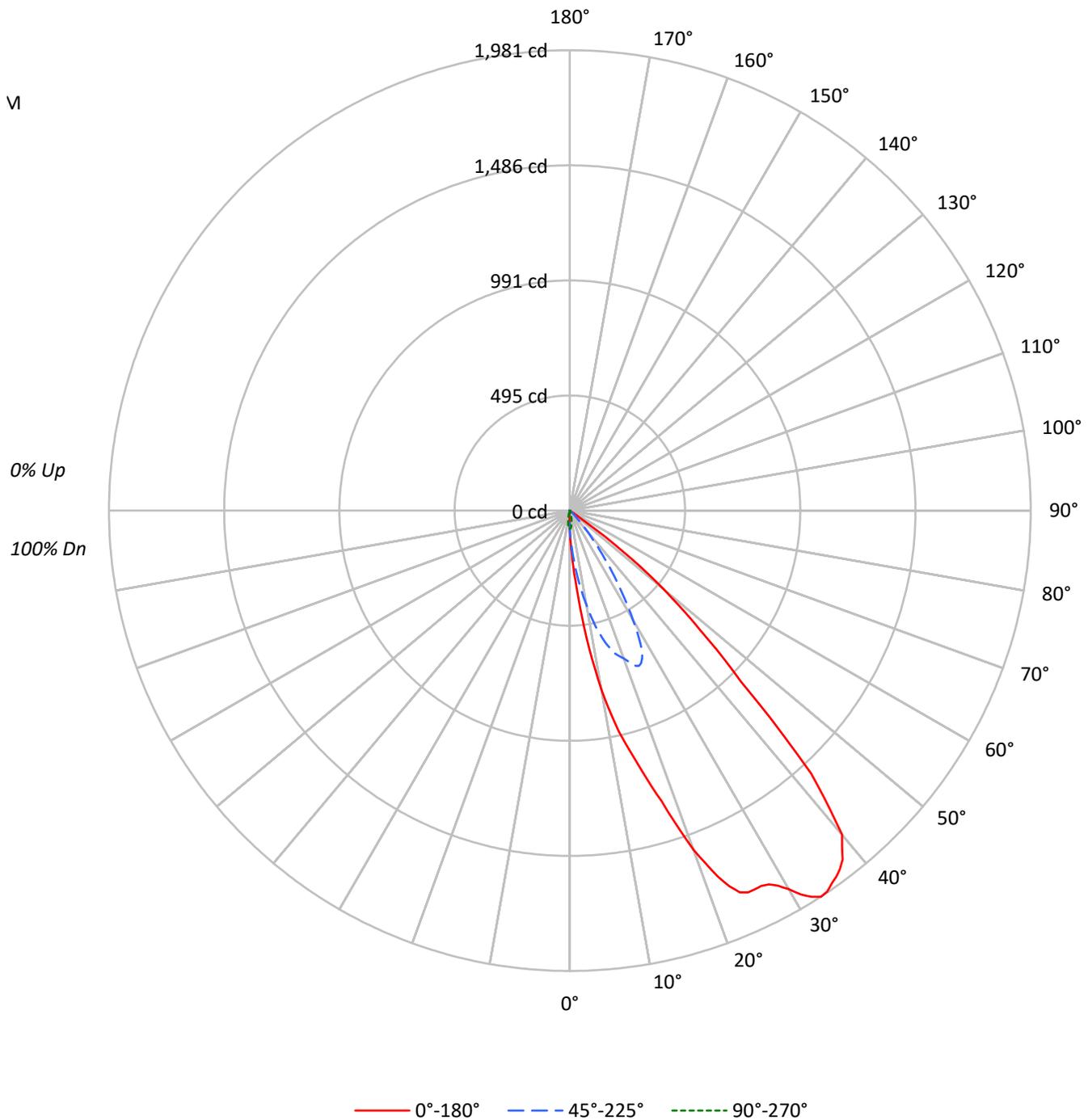
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 665.0 lumens  
Efficiency: N/A  
Efficacy: 59.9 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°	13399	13399	13399	13399	13399
5°	56860	38743	11756	2109	1055
10°	136668	72085	7275	210	0
15°	201138	104714	3049	0	0
20°	284315	124133	1118	0	0
25°	344366	137788	0	0	0
30°	373907	107785	0	0	0
35°	412290	63095	0	0	0
40°	409196	25607	0	0	0
45°	253424	7453	0	0	0
50°	141119	161	0	0	0
55°	13782	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: 254617 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	2.2
10°-20°	85.7	12.9
20°-30°	195.7	29.4
30°-40°	231.0	34.7
40°-50°	123.4	18.6
50°-60°	13.4	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°	295.9	44.5
0°-40°	527.0	79.2
0°-60°	663.8	99.8
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	329	224	68	12	6	46
15°	1128	587	17	0	0	335
25°	1812	725	0	0	0	823
35°	1961	300	0	0	0	1211
45°	1040	31	0	0	0	858
55°	46	0	0	0	0	129
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°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	181.3	177.6	180.1	175.2	175.2	164.1	164.7	155.6	142.1	108.4	77.2
5°	328.9	343.6	331.9	316.6	308.1	297.0	282.3	267.0	224.1	135.3	68.0
7.5°	550.6	549.3	529.7	513.2	494.2	464.8	437.3	399.9	319.1	154.9	56.3
10°	781.5	777.2	755.1	741.0	704.9	662.6	606.3	546.3	412.2	161.7	41.6
12.5°	973.8	968.2	949.9	926.0	886.2	832.9	772.3	693.3	510.2	154.3	26.9
15°	1128.1	1126.9	1109.1	1076.6	1035.0	982.9	914.4	819.4	587.3	135.3	17.1
17.5°	1311.2	1318.6	1286.7	1251.8	1191.8	1118.9	1035.0	926.6	644.3	112.1	11.0
20°	1551.3	1540.9	1511.5	1460.6	1403.1	1315.5	1196.7	1041.7	677.3	87.0	6.1
21°	1624.8	1620.5	1589.9	1542.7	1479.0	1390.2	1267.7	1100.5	692.7	77.8	4.9
22°	1699.5	1692.1	1668.3	1622.3	1562.3	1461.9	1327.1	1161.2	712.3	68.0	3.1
23°	1755.2	1752.2	1733.8	1688.5	1626.6	1529.2	1391.4	1217.5	725.7	58.8	1.8
24°	1798.1	1794.4	1776.0	1741.7	1688.5	1586.8	1456.4	1278.1	731.2	50.8	0.6
25°	1812.2	1814.0	1803.0	1776.0	1731.3	1629.7	1504.7	1325.9	725.1	43.5	0.0
26°	1812.8	1818.3	1810.3	1795.0	1758.3	1664.0	1550.1	1354.1	709.2	36.7	0.0
27°	1812.8	1818.3	1810.3	1798.7	1762.6	1683.6	1574.6	1357.1	684.7	31.2	0.0
28°	1821.4	1824.4	1814.0	1799.9	1760.7	1689.7	1581.3	1338.8	645.5	26.9	0.0
29°	1845.2	1842.2	1825.0	1806.0	1758.9	1689.7	1561.1	1303.9	596.5	22.7	0.0
30°	1880.2	1880.2	1853.2	1823.2	1767.5	1689.1	1528.6	1240.8	542.0	18.4	0.0
31°	1927.3	1923.0	1896.1	1851.4	1785.8	1689.1	1480.8	1171.0	491.8	15.9	0.0
32°	1959.2	1956.7	1931.0	1878.3	1815.8	1689.1	1429.4	1093.8	437.3	12.9	0.0
33°	1981.2	1976.3	1946.9	1892.4	1834.2	1680.5	1371.8	1011.1	388.3	10.4	0.0
34°	1978.1	1976.9	1946.3	1890.0	1830.5	1645.0	1305.1	919.3	343.0	8.6	0.0
35°	1961.0	1961.0	1923.6	1865.5	1804.2	1592.9	1238.9	840.9	300.1	6.1	0.0
36°	1948.1	1943.2	1901.0	1836.1	1760.1	1510.9	1141.0	761.9	254.2	4.9	0.0
37°	1929.1	1920.0	1872.8	1803.0	1697.6	1422.1	1038.1	691.4	215.0	3.1	0.0
38°	1904.6	1890.6	1833.0	1764.4	1629.1	1319.8	933.3	612.4	178.8	1.8	0.0
39°	1859.9	1848.3	1788.9	1714.8	1547.0	1212.0	831.7	538.3	144.5	0.6	0.0
40°	1820.1	1799.9	1732.6	1647.4	1450.8	1090.1	730.6	465.4	113.9	0.0	0.0
42.5°	1534.7	1513.3	1498.0	1413.5	1155.7	782.7	510.2	298.3	59.4	0.0	0.0
45°	1040.5	1045.4	997.6	940.7	762.5	510.2	319.1	166.0	30.6	0.0	0.0
47.5°	758.8	745.9	681.0	573.2	447.1	298.3	166.6	80.2	12.2	0.0	0.0
50°	526.7	502.2	443.4	362.6	243.1	142.1	73.5	37.4	0.6	0.0	0.0
52.5°	286.0	268.9	227.8	165.4	101.1	54.5	29.4	15.3	0.0	0.0	0.0
55°	45.9	31.8	33.1	28.2	22.0	15.9	9.2	1.8	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°	77.8	77.8	77.8	77.8
2.5°	52.1	35.5	26.9	23.3
5°	30.0	12.2	6.7	6.1
7.5°	14.7	4.3	2.4	2.4
10°	6.1	1.2	0.0	0.0
12.5°	1.8	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)