

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: P1315988

Luminaire Tested: LDSQA3D20R609735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R609735D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

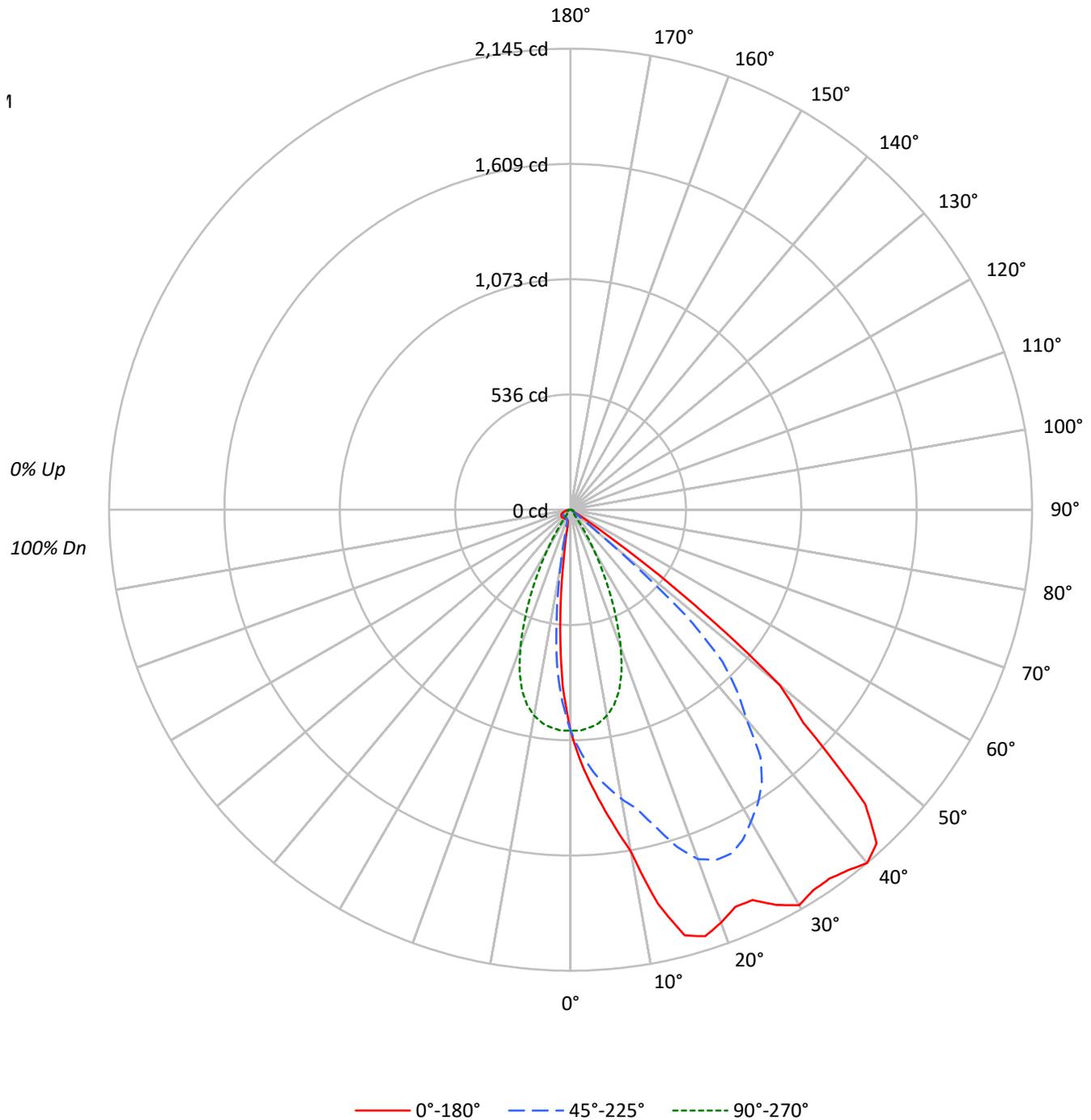
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1667.9 lumens  
Efficiency: N/A  
Efficacy: 57.9 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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				
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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	47	41	38	36

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

	0°	45°	90°	135°	180°
0°	176838	176838	176838	176838	176838
5°	228427	212090	175871	125235	95568
10°	282290	239043	170193	47375	14043
15°	365582	272083	155280	10395	9271
20°	374633	316902	124976	8651	8944
25°	380642	335473	83783	8380	8969
30°	422470	333219	43213	8452	9386
35°	440695	325796	11921	8935	10260
40°	482218	285725	5665	9555	11331
45°	471775	242780	5748	10351	12665
50°	340085	59909	6323	11387	13932
55°	65247	3783	6606	12281	15614
60°	3238	3789	6510	13020	16809
65°	3219	3831	6398	13489	17971
70°	3172	3978	6345	13495	18228
75°	3127	4192	6255	13641	18831
80°	1587	4661	6248	14083	18745
85°	3162	3162	6126	12449	18575

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 471775 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	5.4
10°-20°	246.5	14.8
20°-30°	379.4	22.7
30°-40°	445.2	26.7
40°-50°	357.0	21.4
50°-60°	110.8	6.6
60°-70°	20.9	1.3
70°-80°	13.9	0.8
80°-90°	4.8	0.3
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°	715.2	42.9
0°-40°	1160.4	69.6
0°-60°	1628.3	97.6
0°-90°	1667.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1027	1027	1027	1027	1027	
5°	1321	1227	1017	724	553	135
15°	2050	1526	871	58	52	562
25°	2003	1765	441	44	47	946
35°	2096	1550	57	42	49	1327
45°	1937	997	24	42	52	1386
55°	217	13	22	41	52	344
65°	8	9	16	33	44	7
75°	5	6	9	20	28	4
85°	2	2	3	6	9	1
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°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1184.2	1171.7	1171.7	1166.9	1162.2	1163.8	1151.2	1155.9	1143.3	1133.9	1126.0
5°	1321.3	1305.5	1303.9	1296.1	1288.2	1281.9	1266.1	1256.7	1237.8	1226.8	1203.1
7.5°	1463.0	1450.4	1442.5	1433.1	1418.9	1403.1	1376.4	1359.1	1329.1	1299.2	1269.3
10°	1614.2	1603.1	1585.8	1574.8	1535.4	1510.2	1474.0	1450.4	1406.3	1366.9	1321.3
12.5°	1878.7	1872.4	1839.4	1817.3	1760.6	1710.2	1631.5	1568.5	1489.8	1425.2	1363.8
15°	2050.4	2042.5	2025.2	2004.7	1968.5	1911.8	1840.9	1752.8	1642.5	1526.0	1422.0
17.5°	2080.3	2081.9	2070.9	2066.1	2042.5	2006.3	1949.6	1883.5	1773.2	1644.1	1502.4
20°	2044.1	2056.7	2053.5	2063.0	2067.7	2053.5	2015.7	1951.2	1855.1	1729.1	1570.1
22.5°	2000.0	2011.0	2007.9	2025.2	2052.0	2066.1	2053.5	2001.6	1903.9	1763.8	1607.9
25°	2003.1	2011.0	1987.4	1998.4	2033.1	2067.7	2069.3	2023.6	1918.1	1765.4	1604.7
27.5°	2072.4	2048.8	1995.3	1990.5	2033.1	2077.2	2080.3	2023.6	1897.6	1732.3	1573.2
30°	2124.4	2107.1	2047.2	2039.4	2080.3	2110.2	2094.5	2006.3	1848.8	1675.6	1527.6
32.5°	2099.2	2102.4	2077.2	2102.4	2155.9	2168.5	2102.4	1965.3	1781.1	1620.5	1474.0
35°	2096.1	2108.7	2122.8	2162.2	2198.4	2168.5	2063.0	1888.2	1708.7	1549.6	1390.5
37.5°	2115.0	2135.4	2155.9	2190.5	2190.5	2113.4	1959.1	1790.5	1622.0	1448.8	1217.3
40°	2144.9	2157.5	2163.8	2160.6	2118.1	2004.7	1840.9	1672.4	1511.8	1270.9	1102.4
42.5°	2105.5	2103.9	2097.6	2070.9	1992.1	1844.1	1691.3	1554.3	1300.8	1146.5	954.3
45°	1937.0	1937.0	1919.7	1877.2	1804.7	1681.9	1546.5	1346.5	1185.8	996.8	708.7
47.5°	1466.1	1455.1	1474.0	1499.2	1499.2	1488.2	1365.4	1192.1	1028.3	719.7	226.8
50°	1269.3	1252.0	1228.3	1233.1	1229.9	1242.5	1163.8	1033.1	760.6	223.6	15.7
52.5°	718.1	749.6	826.8	935.4	984.2	1001.6	952.8	785.8	256.7	14.2	12.6
55°	217.3	223.6	253.5	311.8	423.6	541.7	549.6	255.1	17.3	12.6	12.6
57.5°	9.4	9.4	12.6	18.9	44.1	66.1	70.9	15.7	11.0	12.6	12.6
60°	9.4	9.4	9.4	9.4	9.4	9.4	11.0	11.0	11.0	11.0	12.6
62.5°	7.9	7.9	9.4	9.4	9.4	9.4	9.4	9.4	11.0	11.0	11.0
65°	7.9	7.9	7.9	7.9	7.9	7.9	9.4	9.4	9.4	9.4	11.0
67.5°	6.3	6.3	6.3	7.9	7.9	7.9	7.9	7.9	9.4	9.4	9.4
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	7.9	7.9
72.5°	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3	6.3	7.9
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3
77.5°	3.1	3.1	3.1	3.1	3.1	4.7	4.7	4.7	4.7	4.7	4.7
80°	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1115.0	1102.4	1088.2	1028.3	970.1	891.3	837.8	822.0
5°	1182.7	1162.2	1130.7	1017.3	880.3	724.4	598.4	552.8
7.5°	1239.4	1207.9	1163.8	1001.6	773.2	491.3	316.5	267.7
10°	1280.3	1240.9	1184.2	973.2	631.5	270.9	107.1	80.3
12.5°	1315.0	1263.0	1195.3	930.7	459.8	110.2	55.1	55.1
15°	1338.6	1275.6	1200.0	870.9	297.6	58.3	52.0	52.0
17.5°	1371.7	1289.8	1200.0	787.4	162.2	50.4	50.4	50.4
20°	1425.2	1303.9	1182.7	681.9	89.8	47.2	48.8	48.8
22.5°	1453.5	1324.4	1160.6	559.1	56.7	45.7	47.2	47.2
25°	1459.8	1321.3	1113.4	440.9	45.7	44.1	45.7	47.2
27.5°	1437.8	1299.2	1050.4	321.3	40.9	42.5	45.7	47.2
30°	1398.4	1245.7	949.6	217.3	37.8	42.5	45.7	47.2
32.5°	1324.4	1116.5	831.5	130.7	36.2	42.5	45.7	48.8
35°	1159.1	981.1	696.1	56.7	34.6	42.5	47.2	48.8
37.5°	1039.4	845.7	538.6	28.3	34.6	42.5	47.2	50.4
40°	907.1	680.3	248.8	25.2	34.6	42.5	47.2	50.4
42.5°	691.3	315.0	29.9	25.2	33.1	42.5	48.8	50.4
45°	252.0	33.1	15.7	23.6	33.1	42.5	48.8	52.0
47.5°	18.9	12.6	14.2	23.6	33.1	42.5	48.8	52.0
50°	12.6	12.6	14.2	23.6	33.1	42.5	48.8	52.0
52.5°	12.6	14.2	14.2	22.0	31.5	42.5	48.8	52.0
55°	12.6	14.2	14.2	22.0	31.5	40.9	48.8	52.0
57.5°	12.6	12.6	14.2	20.5	29.9	39.4	48.8	50.4
60°	12.6	12.6	14.2	18.9	28.3	37.8	45.7	48.8
62.5°	12.6	12.6	12.6	17.3	26.8	36.2	44.1	47.2
65°	11.0	11.0	12.6	15.7	23.6	33.1	40.9	44.1
67.5°	9.4	11.0	11.0	14.2	22.0	29.9	37.8	40.9
70°	9.4	9.4	9.4	12.6	18.9	26.8	34.6	36.2
72.5°	7.9	7.9	9.4	11.0	17.3	23.6	31.5	33.1
75°	6.3	7.9	7.9	9.4	14.2	20.5	26.8	28.3
77.5°	6.3	6.3	6.3	7.9	12.6	17.3	22.0	23.6
80°	4.7	4.7	4.7	6.3	9.4	14.2	17.3	18.9
82.5°	3.1	4.7	4.7	4.7	7.9	9.4	12.6	14.2
85°	3.1	3.1	3.1	3.1	4.7	6.3	7.9	9.4
87.5°	1.6	1.6	3.1	3.1	3.1	3.1	3.1	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)