

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: P1315822

Luminaire Tested: LDSQA3D17R559735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

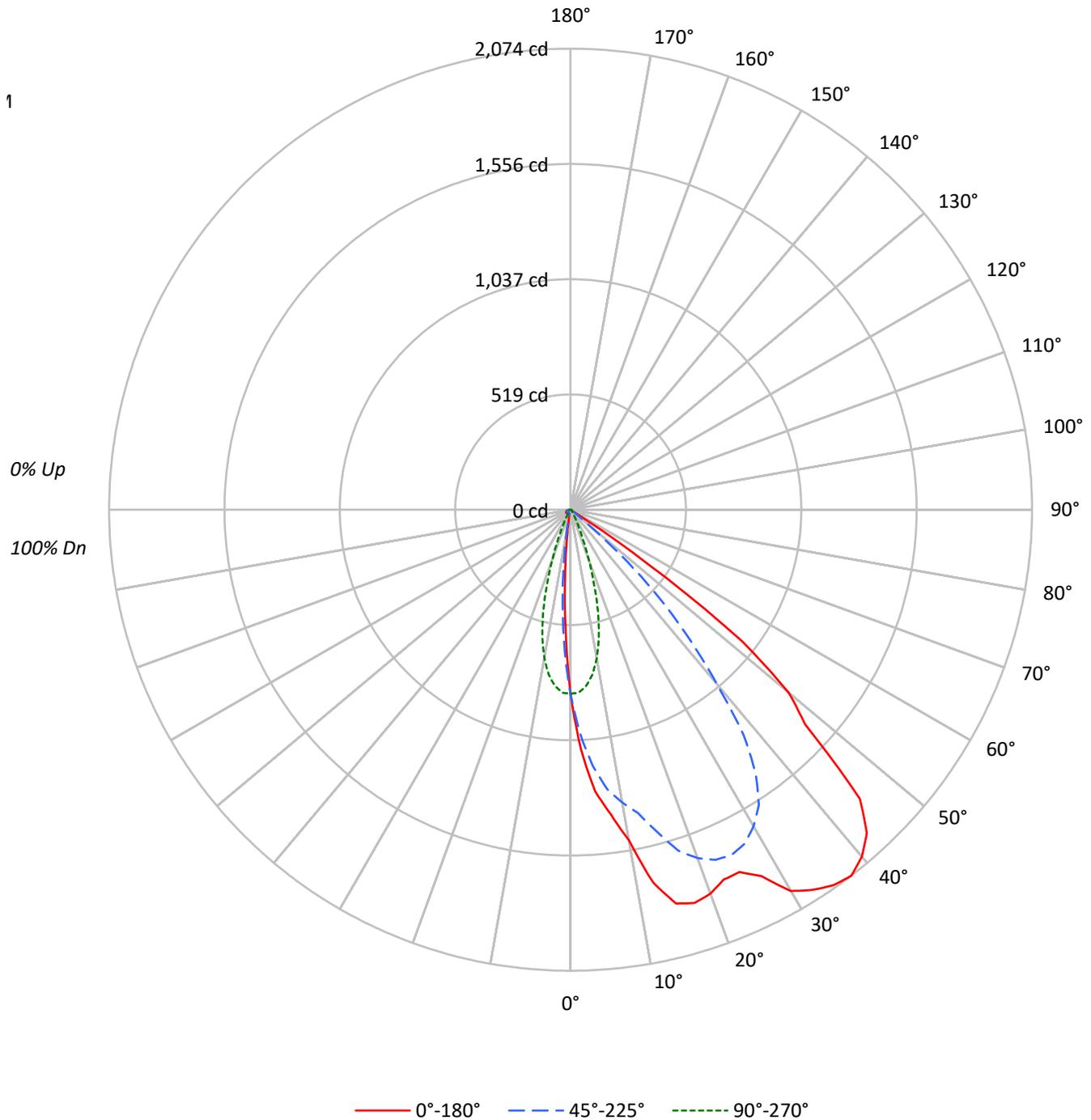
Test Method: LM-79-2019  
Report Number: P1315822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1381.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37

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

	0°	45°	90°	135°	180°
0°	142549	142549	142549	142549	142549
5°	219835	200126	137699	70725	46453
10°	264120	233919	118533	17838	7135
15°	327034	267144	84692	4921	3851
20°	336824	305594	43748	3299	3299
25°	341706	325516	17558	2964	3420
30°	393853	327074	7636	3102	3580
35°	433546	304918	3280	3280	4037
40°	457937	229519	1888	3777	4317
45°	447906	140242	1754	4092	5261
50°	342630	29901	1929	4823	6109
55°	125719	1081	2162	5405	6846
60°	1240	1240	2480	6200	7853
65°	1467	1467	2934	6357	8313
70°	1209	1813	3021	7251	9668
75°	799	1597	3194	7985	11179
80°	1190	2380	3570	8331	11901
85°	0	2371	4742	9485	11856

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 447906 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	5.3
10°-20°	208.7	15.1
20°-30°	320.1	23.2
30°-40°	373.0	27.0
40°-50°	298.1	21.6
50°-60°	88.2	6.4
60°-70°	9.5	0.7
70°-80°	7.4	0.5
80°-90°	3.2	0.2
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°	601.7	43.6
0°-40°	974.7	70.6
0°-60°	1361.0	98.6
0°-90°	1381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	828	828	828	828	828	
5°	1272	1158	796	409	269	127
15°	1834	1498	475	28	22	506
25°	1798	1713	92	16	18	854
35°	2062	1450	16	16	19	1284
45°	1839	576	7	17	22	1326
55°	419	4	7	18	23	444
65°	4	4	7	16	20	3
75°	1	2	5	12	17	2
85°	0	1	2	5	6	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°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	1079.6	1079.6	1076.0	1077.2	1074.8	1061.6	1059.2	1042.5	1028.1	1012.5	999.3
5°	1271.6	1274.0	1270.4	1263.2	1253.6	1244.0	1223.6	1208.0	1187.6	1157.6	1130.0
7.5°	1380.7	1378.3	1372.3	1369.9	1363.9	1353.1	1338.8	1322.0	1298.0	1268.0	1235.6
10°	1510.3	1489.9	1483.9	1474.3	1455.1	1433.5	1408.3	1385.5	1365.1	1337.6	1302.8
12.5°	1719.0	1715.4	1691.4	1673.4	1647.1	1599.1	1555.9	1505.5	1445.5	1397.5	1351.9
15°	1834.2	1836.6	1825.8	1811.4	1794.6	1755.0	1711.8	1653.0	1582.3	1498.3	1423.9
17.5°	1854.6	1858.2	1852.2	1846.2	1841.4	1818.6	1792.2	1750.2	1685.4	1607.5	1497.1
20°	1837.8	1845.0	1846.2	1853.4	1863.0	1853.4	1831.8	1803.0	1749.0	1667.4	1561.9
22.5°	1800.6	1813.8	1823.4	1848.6	1873.8	1873.8	1860.6	1837.8	1785.0	1704.6	1596.7
25°	1798.2	1800.6	1804.2	1845.0	1884.6	1893.0	1881.0	1857.0	1799.4	1713.0	1595.5
27.5°	1858.2	1842.6	1818.6	1859.4	1906.2	1913.4	1896.6	1864.2	1795.8	1693.8	1554.7
30°	1980.5	1945.8	1895.4	1925.4	1957.7	1949.3	1915.8	1864.2	1771.8	1644.7	1477.9
32.5°	2027.3	2008.1	1990.1	2022.5	2028.5	1993.7	1933.8	1857.0	1733.4	1575.1	1351.9
35°	2062.1	2063.3	2056.1	2062.1	2033.3	1984.1	1918.2	1817.4	1661.4	1450.3	1185.2
37.5°	2074.1	2076.5	2060.9	2039.3	1996.1	1939.8	1860.6	1745.4	1541.5	1278.8	933.3
40°	2036.9	2029.7	2004.5	1974.5	1927.8	1870.2	1783.8	1612.3	1362.7	1020.9	728.2
42.5°	1970.9	1958.9	1929.0	1893.0	1843.8	1770.6	1632.7	1425.1	1107.2	796.5	509.8
45°	1839.0	1830.6	1793.4	1767.0	1708.2	1613.5	1435.9	1174.4	856.5	575.8	295.1
47.5°	1428.7	1429.9	1458.7	1471.9	1451.5	1375.9	1167.2	892.5	625.0	343.1	99.6
50°	1278.8	1272.8	1244.0	1204.4	1138.4	1025.7	856.5	631.0	369.5	111.6	14.4
52.5°	970.5	970.5	956.1	935.7	866.1	756.9	579.4	349.1	129.6	19.2	3.6
55°	418.7	397.1	409.1	431.9	413.9	359.9	271.1	104.4	22.8	3.6	3.6
57.5°	6.0	14.4	21.6	34.8	46.8	56.4	30.0	10.8	3.6	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	2.4	2.4	2.4	3.6	2.4	3.6	3.6	3.6	3.6	3.6	3.6
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
75°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	980.1	959.7	926.1	824.1	718.6	621.4	551.8	525.4
5°	1098.8	1061.6	1005.3	796.5	586.6	409.1	308.3	268.7
7.5°	1192.4	1144.4	1062.8	748.6	430.7	218.3	130.8	103.2
10°	1254.8	1202.0	1095.2	677.8	285.5	102.0	49.2	40.8
12.5°	1300.4	1234.4	1107.2	586.6	167.9	46.8	26.4	24.0
15°	1334.0	1248.8	1092.8	475.0	92.4	27.6	21.6	21.6
17.5°	1380.7	1256.0	1058.0	350.3	52.8	20.4	20.4	20.4
20°	1416.7	1256.0	992.1	238.7	32.4	18.0	18.0	18.0
22.5°	1434.7	1236.8	911.7	151.1	22.8	16.8	18.0	18.0
25°	1416.7	1190.0	808.5	92.4	18.0	15.6	16.8	18.0
27.5°	1350.7	1096.4	670.6	58.8	14.4	15.6	16.8	18.0
30°	1240.4	960.9	514.6	38.4	13.2	15.6	16.8	18.0
32.5°	1084.4	759.3	333.5	25.2	12.0	15.6	16.8	18.0
35°	846.9	537.4	201.5	15.6	12.0	15.6	18.0	19.2
37.5°	634.6	358.7	109.2	9.6	12.0	15.6	18.0	19.2
40°	440.3	208.7	46.8	8.4	12.0	16.8	19.2	19.2
42.5°	255.5	82.8	12.0	7.2	12.0	16.8	19.2	20.4
45°	93.6	16.8	3.6	7.2	13.2	16.8	19.2	21.6
47.5°	13.2	3.6	3.6	7.2	13.2	16.8	20.4	21.6
50°	3.6	3.6	3.6	7.2	13.2	18.0	21.6	22.8
52.5°	3.6	3.6	3.6	7.2	13.2	18.0	21.6	22.8
55°	3.6	3.6	3.6	7.2	13.2	18.0	21.6	22.8
57.5°	3.6	3.6	3.6	7.2	13.2	18.0	21.6	22.8
60°	3.6	3.6	3.6	7.2	12.0	18.0	21.6	22.8
62.5°	3.6	3.6	3.6	7.2	12.0	16.8	20.4	21.6
65°	3.6	3.6	3.6	7.2	10.8	15.6	20.4	20.4
67.5°	3.6	3.6	3.6	6.0	10.8	15.6	19.2	20.4
70°	3.6	3.6	3.6	6.0	9.6	14.4	18.0	19.2
72.5°	3.6	3.6	3.6	4.8	8.4	13.2	16.8	18.0
75°	2.4	3.6	3.6	4.8	8.4	12.0	15.6	16.8
77.5°	2.4	3.6	3.6	3.6	7.2	9.6	13.2	14.4
80°	2.4	2.4	3.6	3.6	6.0	8.4	10.8	12.0
82.5°	2.4	2.4	2.4	3.6	4.8	6.0	8.4	8.4
85°	2.4	2.4	2.4	2.4	3.6	4.8	6.0	6.0
87.5°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)