

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: P1308340

Luminaire Tested: LDSQA3D17R559027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308340  
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: LDSQA3D17R559027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

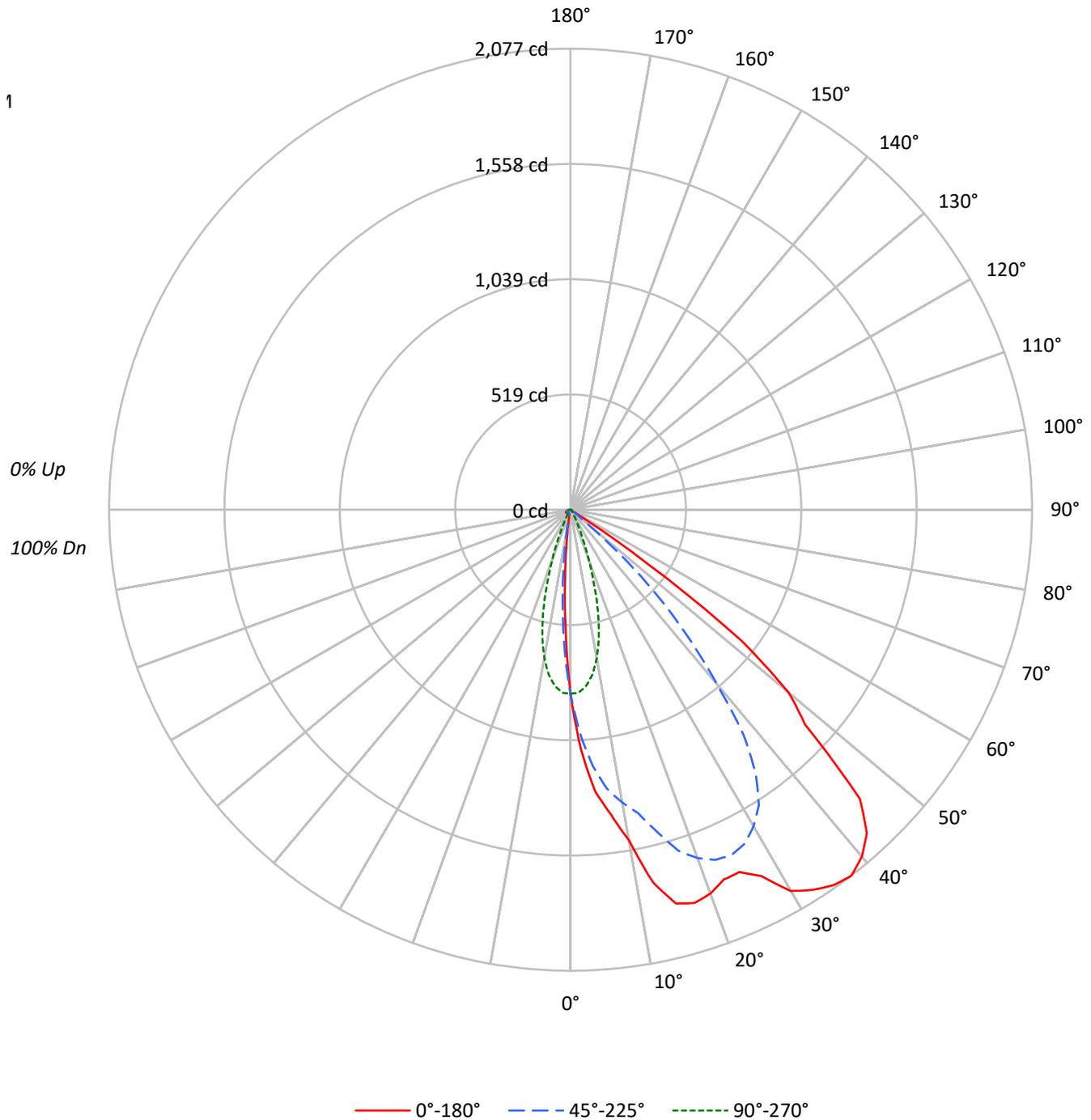
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1382.9 lumens  
Efficiency: N/A  
Efficacy: 65.2 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 (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	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	142755	142755	142755	142755	142755
5°	220146	200420	137907	70829	46522
10°	264505	234251	118708	17855	7135
15°	327498	267536	84816	4921	3851
20°	337300	306052	43821	3299	3299
25°	342200	325991	17577	2964	3420
30°	394430	327532	7636	3102	3580
35°	434177	305360	3280	3280	4037
40°	458612	229834	1888	3777	4317
45°	448539	140436	1754	4092	5261
50°	343112	29928	1929	4823	6109
55°	125899	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: 448539 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.0	5.3
10°-20°	209.0	15.1
20°-30°	320.6	23.2
30°-40°	373.5	27.0
40°-50°	298.5	21.6
50°-60°	88.4	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°	602.5	43.6
0°-40°	976.1	70.6
0°-60°	1362.9	98.6
0°-90°	1382.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	829	829	829	829	829	
5°	1273	1159	798	410	269	127
15°	1837	1500	476	28	22	507
25°	1801	1716	92	16	18	855
35°	2065	1452	16	16	19	1286
45°	1842	577	7	17	22	1328
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°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	1081.2	1081.2	1077.6	1078.8	1076.4	1063.2	1060.8	1044.0	1029.5	1013.9	1000.7
5°	1273.4	1275.8	1272.2	1265.0	1255.4	1245.8	1225.4	1209.7	1189.3	1159.3	1131.7
7.5°	1382.7	1380.3	1374.3	1371.9	1365.9	1355.1	1340.7	1323.9	1299.8	1269.8	1237.4
10°	1512.5	1492.1	1486.1	1476.4	1457.2	1435.6	1410.4	1387.5	1367.1	1339.5	1304.7
12.5°	1721.5	1717.9	1693.9	1675.9	1649.4	1601.4	1558.1	1507.7	1447.6	1399.6	1353.9
15°	1836.8	1839.2	1828.4	1814.0	1797.2	1757.6	1714.3	1655.4	1584.6	1500.5	1426.0
17.5°	1857.3	1860.9	1854.9	1848.9	1844.1	1821.2	1794.8	1752.8	1687.9	1609.8	1499.3
20°	1840.4	1847.7	1848.9	1856.1	1865.7	1856.1	1834.4	1805.6	1751.5	1669.9	1564.1
22.5°	1803.2	1816.4	1826.0	1851.3	1876.5	1876.5	1863.3	1840.4	1787.6	1707.1	1599.0
25°	1800.8	1803.2	1806.8	1847.7	1887.3	1895.7	1883.7	1859.7	1802.0	1715.5	1597.8
27.5°	1860.9	1845.3	1821.2	1862.1	1908.9	1916.1	1899.3	1866.9	1798.4	1696.3	1556.9
30°	1983.4	1948.6	1898.1	1928.1	1960.6	1952.2	1918.5	1866.9	1774.4	1647.0	1480.0
32.5°	2030.3	2011.0	1993.0	2025.5	2031.5	1996.6	1936.6	1859.7	1735.9	1577.4	1353.9
35°	2065.1	2066.3	2059.1	2065.1	2036.3	1987.0	1920.9	1820.0	1663.9	1452.4	1186.9
37.5°	2077.1	2079.5	2063.9	2042.3	1999.0	1942.6	1863.3	1747.9	1543.7	1280.6	934.6
40°	2039.9	2032.7	2007.4	1977.4	1930.5	1872.9	1786.4	1614.6	1364.7	1022.3	729.2
42.5°	1973.8	1961.8	1931.8	1895.7	1846.5	1773.2	1635.0	1427.2	1108.8	797.7	510.6
45°	1841.6	1833.2	1796.0	1769.6	1710.7	1615.8	1438.0	1176.1	857.8	576.6	295.5
47.5°	1430.8	1432.0	1460.8	1474.0	1453.6	1377.9	1168.9	893.8	625.9	343.6	99.7
50°	1280.6	1274.6	1245.8	1206.1	1140.1	1027.1	857.8	631.9	370.0	111.7	14.4
52.5°	971.9	971.9	957.5	937.0	867.4	758.0	580.2	349.6	129.7	19.2	3.6
55°	419.3	397.6	409.7	432.5	414.5	360.4	271.5	104.5	22.8	3.6	3.6
57.5°	6.0	14.4	21.6	34.8	46.9	56.5	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°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	981.5	961.1	927.4	825.3	719.6	622.3	552.6	526.2
5°	1100.4	1063.2	1006.7	797.7	587.5	409.7	308.7	269.1
7.5°	1194.1	1146.1	1064.4	749.6	431.3	218.6	130.9	103.3
10°	1256.6	1203.7	1096.8	678.8	285.9	102.1	49.3	40.8
12.5°	1302.2	1236.2	1108.8	587.5	168.2	46.9	26.4	24.0
15°	1335.9	1250.6	1094.4	475.7	92.5	27.6	21.6	21.6
17.5°	1382.7	1257.8	1059.6	350.8	52.9	20.4	20.4	20.4
20°	1418.8	1257.8	993.5	239.1	32.4	18.0	18.0	18.0
22.5°	1436.8	1238.6	913.0	151.4	22.8	16.8	18.0	18.0
25°	1418.8	1191.7	809.7	92.5	18.0	15.6	16.8	18.0
27.5°	1352.7	1098.0	671.5	58.9	14.4	15.6	16.8	18.0
30°	1242.2	962.3	515.4	38.4	13.2	15.6	16.8	18.0
32.5°	1086.0	760.4	334.0	25.2	12.0	15.6	16.8	18.0
35°	848.1	538.2	201.8	15.6	12.0	15.6	18.0	19.2
37.5°	635.5	359.2	109.3	9.6	12.0	15.6	18.0	19.2
40°	440.9	209.0	46.9	8.4	12.0	16.8	19.2	19.2
42.5°	255.9	82.9	12.0	7.2	12.0	16.8	19.2	20.4
45°	93.7	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)