

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: P1309458

Luminaire Tested: LDSQA3D17R559030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

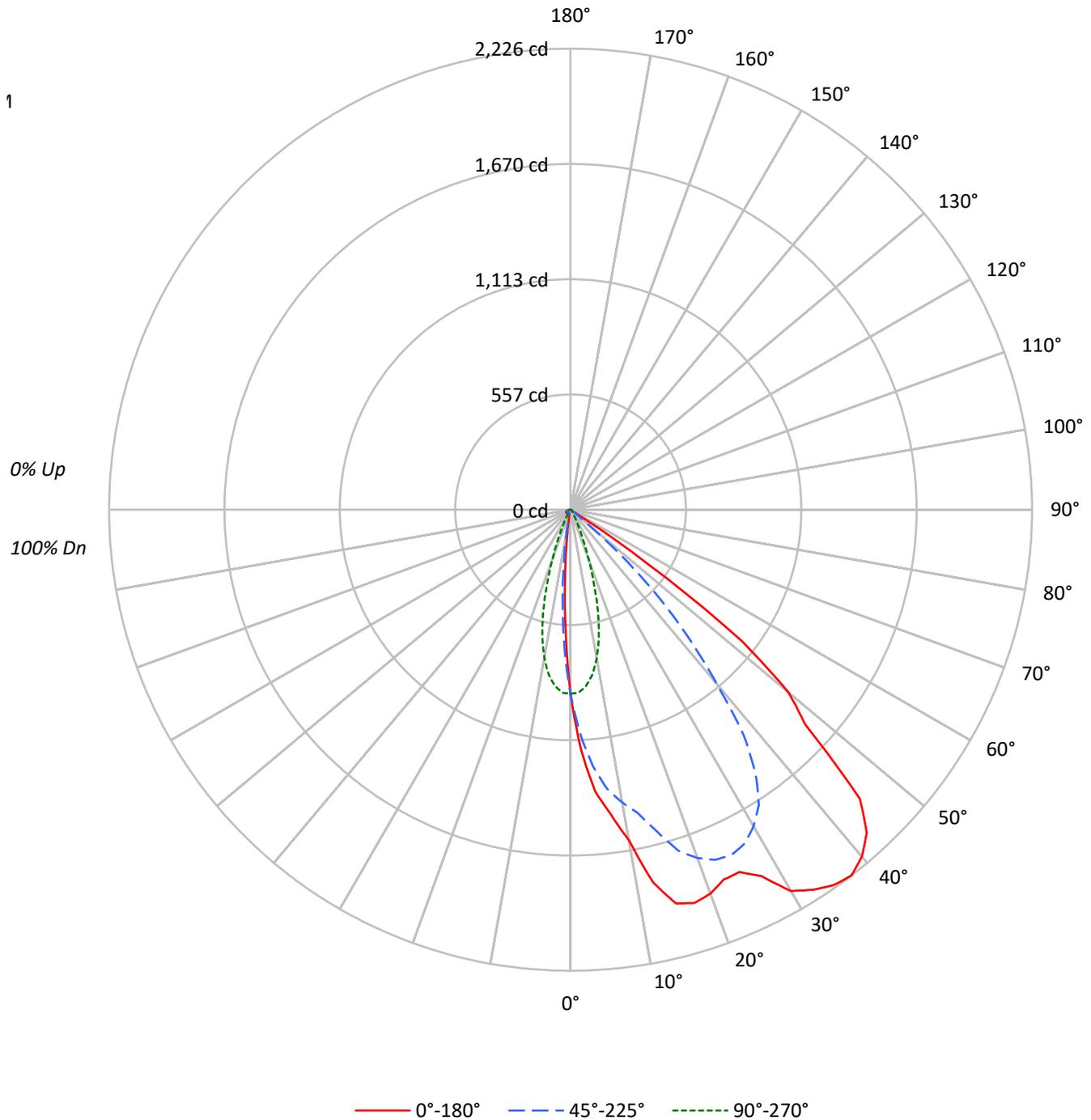
Test Method: LM-79-2019  
Report Number: P1309458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1482.0 lumens  
Efficiency: N/A  
Efficacy: 69.9 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				
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	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	152985	152985	152985	152985	152985
5°	235913	214769	147778	75895	49859
10°	283445	251022	127190	19132	7660
15°	350944	286685	90896	5278	4137
20°	361456	327953	46955	3537	3537
25°	366694	349326	18832	3173	3668
30°	422669	350978	8193	3321	3838
35°	465251	327225	3511	3511	4331
40°	491436	246291	2023	4047	4631
45°	480665	150495	1875	4384	5651
50°	367682	32071	2063	5171	6564
55°	134907	1171	2312	5795	7356
60°	1343	1343	2652	6648	8439
65°	1589	1589	3138	6805	8925
70°	1309	1964	3223	7755	10373
75°	865	1730	3394	8584	11978
80°	1289	2579	3868	8926	12794
85°	0	2569	5138	10078	12647

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 480665 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	5.3
10°-20°	223.9	15.1
20°-30°	343.5	23.2
30°-40°	400.3	27.0
40°-50°	319.9	21.6
50°-60°	94.7	6.4
60°-70°	10.2	0.7
70°-80°	7.9	0.5
80°-90°	3.4	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°	645.7	43.6
0°-40°	1046.0	70.6
0°-60°	1460.5	98.5
0°-90°	1482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	888	888	888	888	888	
5°	1365	1242	855	439	288	136
15°	1968	1608	510	30	23	543
25°	1930	1838	99	17	19	917
35°	2213	1556	17	17	21	1378
45°	1974	618	8	18	23	1423
55°	449	4	8	19	24	476
65°	4	4	8	17	22	3
75°	1	3	5	13	18	2
85°	0	1	3	5	6	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°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
2.5°	1158.6	1158.6	1154.7	1156.0	1153.5	1139.3	1136.7	1118.7	1103.2	1086.5	1072.3
5°	1364.6	1367.1	1363.3	1355.6	1345.3	1335.0	1313.1	1296.3	1274.5	1242.3	1212.7
7.5°	1481.7	1479.1	1472.7	1470.1	1463.7	1452.1	1436.7	1418.6	1392.9	1360.7	1326.0
10°	1620.8	1598.9	1592.4	1582.1	1561.5	1538.4	1511.3	1486.9	1465.0	1435.4	1398.0
12.5°	1844.7	1840.9	1815.1	1795.8	1767.5	1716.0	1669.7	1615.6	1551.2	1499.7	1450.8
15°	1968.3	1970.9	1959.3	1943.9	1925.9	1883.4	1837.0	1773.9	1698.0	1607.9	1528.1
17.5°	1990.2	1994.1	1987.6	1981.2	1976.1	1951.6	1923.3	1878.2	1808.7	1725.0	1606.6
20°	1972.2	1979.9	1981.2	1988.9	1999.2	1988.9	1965.8	1934.9	1876.9	1789.4	1676.1
22.5°	1932.3	1946.4	1956.7	1983.8	2010.8	2010.8	1996.7	1972.2	1915.6	1829.3	1713.4
25°	1929.7	1932.3	1936.1	1979.9	2022.4	2031.4	2018.5	1992.8	1931.0	1838.3	1712.2
27.5°	1994.1	1977.3	1951.6	1995.4	2045.6	2053.3	2035.3	2000.5	1927.1	1817.7	1668.4
30°	2125.4	2088.1	2034.0	2066.2	2100.9	2091.9	2055.9	2000.5	1901.4	1764.9	1586.0
32.5°	2175.6	2155.0	2135.7	2170.4	2176.9	2139.5	2075.2	1992.8	1860.2	1690.3	1450.8
35°	2212.9	2214.2	2206.5	2212.9	2182.0	2129.2	2058.4	1950.3	1783.0	1556.4	1271.9
37.5°	2225.8	2228.4	2211.6	2188.5	2142.1	2081.6	1996.7	1873.1	1654.2	1372.3	1001.5
40°	2185.9	2178.2	2151.1	2119.0	2068.7	2007.0	1914.3	1730.2	1462.4	1095.5	781.4
42.5°	2115.1	2102.2	2070.0	2031.4	1978.6	1900.1	1752.1	1529.4	1188.2	854.8	547.1
45°	1973.5	1964.5	1924.6	1896.2	1833.2	1731.5	1540.9	1260.3	919.2	617.9	316.7
47.5°	1533.2	1534.5	1565.4	1579.6	1557.7	1476.6	1252.6	957.8	670.7	368.2	106.8
50°	1372.3	1365.9	1335.0	1292.5	1221.7	1100.7	919.2	677.1	396.5	119.7	15.4
52.5°	1041.5	1041.5	1026.0	1004.1	929.5	812.3	621.8	374.6	139.0	20.6	3.9
55°	449.3	426.1	439.0	463.4	444.1	386.2	290.9	112.0	24.5	3.9	3.9
57.5°	6.4	15.4	23.2	37.3	50.2	60.5	32.2	11.6	3.9	3.9	3.9
60°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
67.5°	2.6	2.6	2.6	3.9	2.6	3.9	3.9	3.9	3.9	3.9	3.9
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
85°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
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°	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
2.5°	1051.8	1029.9	993.8	884.4	771.1	666.8	592.2	563.9
5°	1179.2	1139.3	1078.8	854.8	629.5	439.0	330.8	288.4
7.5°	1279.6	1228.1	1140.6	803.3	462.2	234.3	140.3	110.7
10°	1346.6	1289.9	1175.3	727.3	306.4	109.4	52.8	43.8
12.5°	1395.5	1324.7	1188.2	629.5	180.2	50.2	28.3	25.7
15°	1431.5	1340.1	1172.8	509.8	99.1	29.6	23.2	23.2
17.5°	1481.7	1347.8	1135.4	375.9	56.6	21.9	21.9	21.9
20°	1520.3	1347.8	1064.6	256.2	34.8	19.3	19.3	19.3
22.5°	1539.7	1327.2	978.4	162.2	24.5	18.0	19.3	19.3
25°	1520.3	1277.0	867.7	99.1	19.3	16.7	18.0	19.3
27.5°	1449.5	1176.6	719.6	63.1	15.4	16.7	18.0	19.3
30°	1331.1	1031.2	552.3	41.2	14.2	16.7	18.0	19.3
32.5°	1163.7	814.9	357.9	27.0	12.9	16.7	18.0	19.3
35°	908.9	576.7	216.3	16.7	12.9	16.7	19.3	20.6
37.5°	681.0	384.9	117.1	10.3	12.9	16.7	19.3	20.6
40°	472.5	224.0	50.2	9.0	12.9	18.0	20.6	20.6
42.5°	274.2	88.8	12.9	7.7	12.9	18.0	20.6	21.9
45°	100.4	18.0	3.9	7.7	14.2	18.0	20.6	23.2
47.5°	14.2	3.9	3.9	7.7	14.2	18.0	21.9	23.2
50°	3.9	3.9	3.9	7.7	14.2	19.3	23.2	24.5
52.5°	3.9	3.9	3.9	7.7	14.2	19.3	23.2	24.5
55°	3.9	3.9	3.9	7.7	14.2	19.3	23.2	24.5
57.5°	3.9	3.9	3.9	7.7	14.2	19.3	23.2	24.5
60°	3.9	3.9	3.9	7.7	12.9	19.3	23.2	24.5
62.5°	3.9	3.9	3.9	7.7	12.9	18.0	21.9	23.2
65°	3.9	3.9	3.9	7.7	11.6	16.7	21.9	21.9
67.5°	3.9	3.9	3.9	6.4	11.6	16.7	20.6	21.9
70°	3.9	3.9	3.9	6.4	10.3	15.4	19.3	20.6
72.5°	3.9	3.9	3.9	5.1	9.0	14.2	18.0	19.3
75°	2.6	3.9	3.9	5.1	9.0	12.9	16.7	18.0
77.5°	2.6	3.9	3.9	3.9	7.7	10.3	14.2	15.4
80°	2.6	2.6	3.9	3.9	6.4	9.0	11.6	12.9
82.5°	2.6	2.6	2.6	3.9	5.1	6.4	9.0	9.0
85°	2.6	2.6	2.6	2.6	3.9	5.1	6.4	6.4
87.5°	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)