

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: P1324105

Luminaire Tested: LDSQA3D17R559030D2WDE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

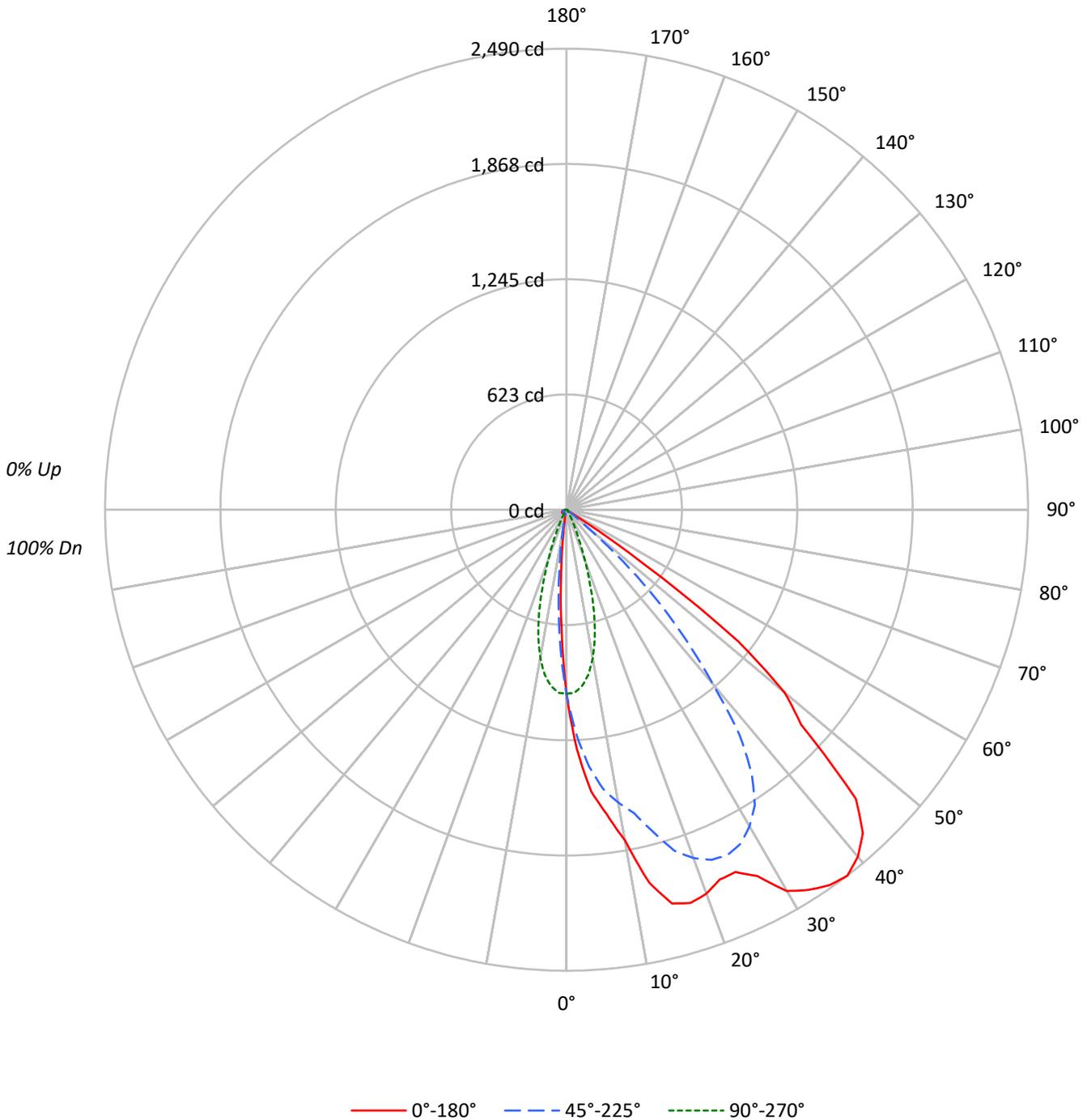
Test Method: LM-79-2019  
Report Number: P1324105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559030D2WDE010 3LSQCA30R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1658.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 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): 27.3  
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	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°	171138	171138	171138	171138	171138
5°	263919	240269	165326	84902	55771
10°	317091	280821	142299	21405	8569
15°	392630	320722	101683	5902	4618
20°	404379	366899	52527	3959	3959
25°	410249	390809	21074	3553	4105
30°	472863	392660	9168	3719	4295
35°	520504	366079	3932	3932	4836
40°	549799	275540	2271	4541	5171
45°	537731	168373	2095	4920	6308
50°	411354	35876	2304	5787	7341
55°	150911	1291	2582	6486	8227
60°	1481	1481	2962	7440	9438
65°	1752	1752	3505	7621	9984
70°	1460	2165	3626	8711	11582
75°	932	1930	3859	9582	13441
80°	1389	2876	4265	10017	14282
85°	0	2766	5730	11461	14227

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 537731 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	5.3
10°-20°	250.5	15.1
20°-30°	384.3	23.2
30°-40°	447.8	27.0
40°-50°	357.9	21.6
50°-60°	105.9	6.4
60°-70°	11.3	0.7
70°-80°	8.9	0.5
80°-90°	3.8	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°	722.3	43.6
0°-40°	1170.2	70.6
0°-60°	1634.0	98.6
0°-90°	1658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	994	994	994	994	994	
5°	1527	1390	956	491	323	152
15°	2202	1799	570	33	26	608
25°	2159	2057	111	19	22	1025
35°	2476	1741	19	19	23	1542
45°	2208	691	9	20	26	1592
55°	503	4	9	22	27	532
65°	4	4	9	19	24	4
75°	1	3	6	14	20	2
85°	0	1	3	6	7	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°	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7
2.5°	1296.2	1296.2	1291.9	1293.3	1290.4	1274.6	1271.7	1251.5	1234.3	1215.5	1199.7
5°	1526.6	1529.5	1525.2	1516.5	1505.0	1493.5	1469.0	1450.3	1425.8	1389.8	1356.7
7.5°	1657.7	1654.8	1647.6	1644.7	1637.5	1624.6	1607.3	1587.1	1558.3	1522.3	1483.4
10°	1813.2	1788.7	1781.5	1770.0	1747.0	1721.1	1690.8	1663.4	1639.0	1605.8	1564.1
12.5°	2063.8	2059.5	2030.7	2009.1	1977.4	1919.8	1868.0	1807.5	1735.5	1677.9	1623.1
15°	2202.1	2205.0	2192.0	2174.7	2154.6	2107.0	2055.2	1984.6	1899.6	1798.8	1709.5
17.5°	2226.6	2230.9	2223.7	2216.5	2210.7	2183.4	2151.7	2101.3	2023.5	1929.9	1797.4
20°	2206.4	2215.1	2216.5	2225.1	2236.7	2225.1	2199.2	2164.6	2099.8	2001.9	1875.2
22.5°	2161.8	2177.6	2189.1	2219.4	2249.6	2249.6	2233.8	2206.4	2143.0	2046.5	1916.9
25°	2158.9	2161.8	2166.1	2215.1	2262.6	2272.7	2258.3	2229.5	2160.3	2056.6	1915.5
27.5°	2230.9	2212.2	2183.4	2232.3	2288.5	2297.1	2277.0	2238.1	2156.0	2033.6	1866.5
30°	2377.8	2336.0	2275.5	2311.5	2350.4	2340.3	2300.0	2238.1	2127.2	1974.5	1774.3
32.5°	2434.0	2410.9	2389.3	2428.2	2435.4	2393.6	2321.6	2229.5	2081.1	1891.0	1623.1
35°	2475.7	2477.2	2468.5	2475.7	2441.2	2382.1	2302.9	2181.9	1994.7	1741.2	1422.9
37.5°	2490.1	2493.0	2474.3	2448.4	2396.5	2328.8	2233.8	2095.5	1850.7	1535.3	1120.5
40°	2445.5	2436.8	2406.6	2370.6	2314.4	2245.3	2141.6	1935.6	1636.1	1225.6	874.2
42.5°	2366.3	2351.9	2315.9	2272.7	2213.6	2125.8	1960.1	1711.0	1329.3	956.3	612.1
45°	2207.8	2197.8	2153.1	2121.4	2050.9	1937.1	1723.9	1410.0	1028.3	691.3	354.3
47.5°	1715.3	1716.7	1751.3	1767.1	1742.7	1651.9	1401.3	1071.5	750.4	411.9	119.5
50°	1535.3	1528.1	1493.5	1446.0	1366.8	1231.4	1028.3	757.6	443.6	133.9	17.3
52.5°	1165.1	1165.1	1147.9	1123.4	1039.8	908.8	695.6	419.1	155.5	23.0	4.3
55°	502.6	476.7	491.1	518.5	496.9	432.1	325.5	125.3	27.4	4.3	4.3
57.5°	7.2	17.3	25.9	41.8	56.2	67.7	36.0	13.0	4.3	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	2.9	2.9	2.9	4.3	2.9	4.3	4.3	4.3	4.3	4.3	4.3
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.9	2.9	2.9	2.9	2.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.9	2.9	2.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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°	993.7	993.7	993.7	993.7	993.7	993.7	993.7	993.7
2.5°	1176.7	1152.2	1111.8	989.4	862.7	746.0	662.5	630.8
5°	1319.2	1274.6	1206.9	956.3	704.3	491.1	370.1	322.6
7.5°	1431.6	1374.0	1276.0	898.7	517.0	262.1	157.0	123.9
10°	1506.5	1443.1	1314.9	813.7	342.8	122.4	59.0	49.0
12.5°	1561.2	1482.0	1329.3	704.3	201.6	56.2	31.7	28.8
15°	1601.5	1499.3	1312.0	570.3	110.9	33.1	25.9	25.9
17.5°	1657.7	1507.9	1270.3	420.5	63.4	24.5	24.5	24.5
20°	1700.9	1507.9	1191.1	286.6	38.9	21.6	21.6	21.6
22.5°	1722.5	1484.9	1094.6	181.5	27.4	20.2	21.6	21.6
25°	1700.9	1428.7	970.7	110.9	21.6	18.7	20.2	21.6
27.5°	1621.7	1316.4	805.1	70.6	17.3	18.7	20.2	21.6
30°	1489.2	1153.6	617.9	46.1	15.8	18.7	20.2	21.6
32.5°	1302.0	911.7	400.4	30.2	14.4	18.7	20.2	21.6
35°	1016.8	645.2	242.0	18.7	14.4	18.7	21.6	23.0
37.5°	761.9	430.6	131.1	11.5	14.4	18.7	21.6	23.0
40°	528.6	250.6	56.2	10.1	14.4	20.2	23.0	23.0
42.5°	306.8	99.4	14.4	8.6	14.4	20.2	23.0	24.5
45°	112.3	20.2	4.3	8.6	15.8	20.2	23.0	25.9
47.5°	15.8	4.3	4.3	8.6	15.8	20.2	24.5	25.9
50°	4.3	4.3	4.3	8.6	15.8	21.6	25.9	27.4
52.5°	4.3	4.3	4.3	8.6	15.8	21.6	25.9	27.4
55°	4.3	4.3	4.3	8.6	15.8	21.6	25.9	27.4
57.5°	4.3	4.3	4.3	8.6	15.8	21.6	25.9	27.4
60°	4.3	4.3	4.3	8.6	14.4	21.6	25.9	27.4
62.5°	4.3	4.3	4.3	8.6	14.4	20.2	24.5	25.9
65°	4.3	4.3	4.3	8.6	13.0	18.7	24.5	24.5
67.5°	4.3	4.3	4.3	7.2	13.0	18.7	23.0	24.5
70°	4.3	4.3	4.3	7.2	11.5	17.3	21.6	23.0
72.5°	4.3	4.3	4.3	5.8	10.1	15.8	20.2	21.6
75°	2.9	4.3	4.3	5.8	10.1	14.4	18.7	20.2
77.5°	2.9	4.3	4.3	4.3	8.6	11.5	15.8	17.3
80°	2.9	2.9	4.3	4.3	7.2	10.1	13.0	14.4
82.5°	2.9	2.9	2.9	4.3	5.8	7.2	10.1	10.1
85°	2.9	2.9	2.9	2.9	4.3	5.8	7.2	7.2
87.5°	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)