

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: P1320290

Luminaire Tested: LDSQA3D17R459840DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

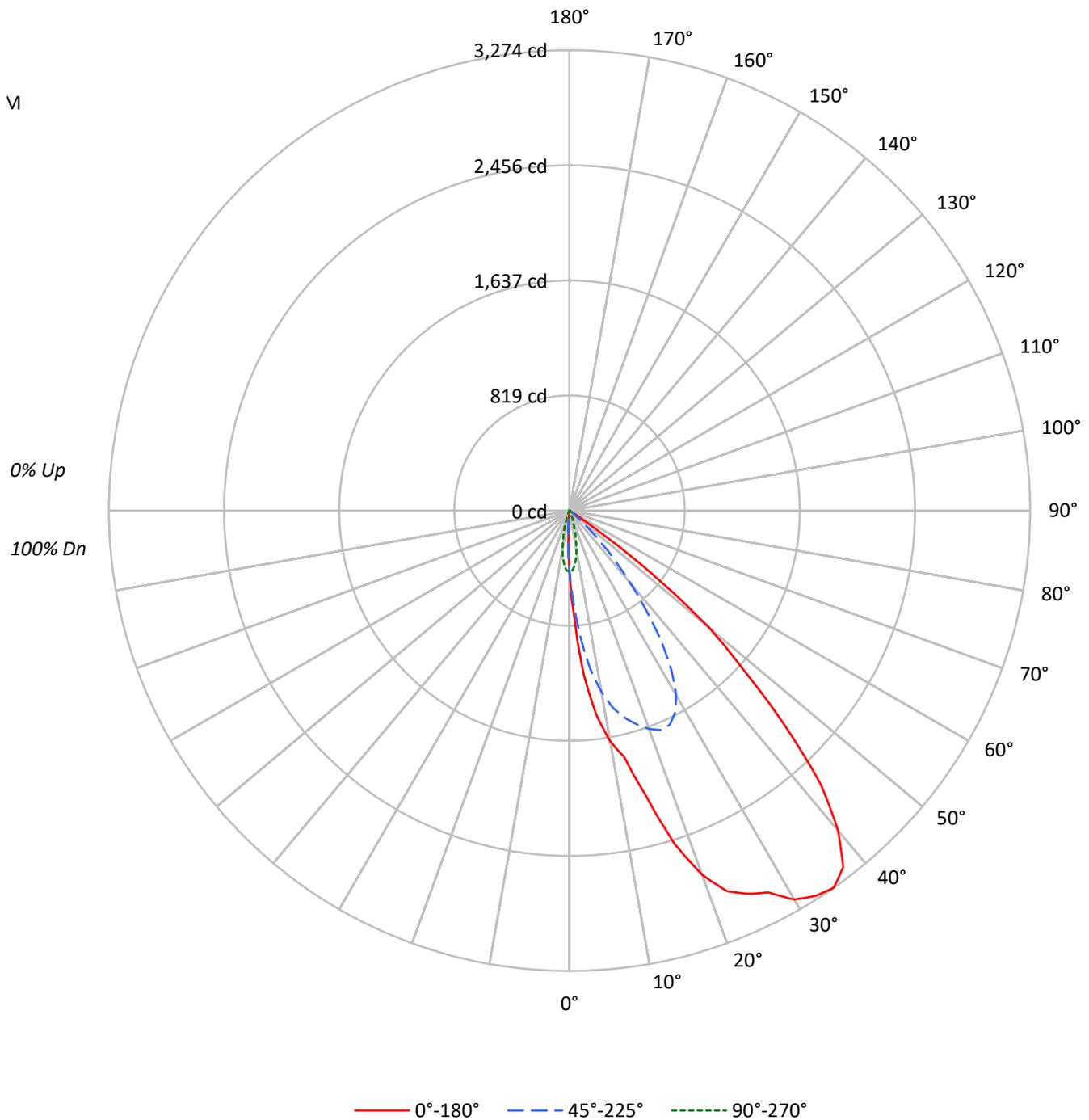
Test Method: LM-79-2019  
Report Number: P1320290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459840DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1388.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.4  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	74245	74245	74245	74245	74245
5°	202685	155938	68703	13779	5169
10°	291087	228777	49683	1312	1084
15°	374747	272118	26442	446	0
20°	505089	302771	10043	0	0
25°	571277	319853	2603	0	0
30°	635018	301520	239	0	0
35°	688384	240457	0	0	0
40°	667200	150967	0	0	0
45°	528914	71923	0	0	0
50°	346167	9002	0	0	0
55°	59482	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	1259	0	0
75°	0	799	1664	0	0
80°	0	1190	2479	1190	0
85°	0	2371	4940	2371	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 528914 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	3.7
10°-20°	197.7	14.2
20°-30°	370.1	26.7
30°-40°	432.1	31.1
40°-50°	281.8	20.3
50°-60°	52.3	3.8
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	1.1	0.1
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°	619.2	44.6
0°-40°	1051.3	75.7
0°-60°	1385.3	99.8
0°-90°	1388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	431	431	431	431	431	
5°	1172	902	397	80	30	126
15°	2102	1526	148	2	0	626
25°	3006	1683	14	0	0	1390
35°	3274	1144	0	0	0	2008
45°	2172	295	0	0	0	1651
55°	198	0	0	0	0	344
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	760.0	766.2	753.8	748.8	732.6	736.3	708.9	697.7	680.3	651.6	637.9
5°	1172.4	1161.2	1151.2	1130.0	1117.6	1083.9	1046.5	1004.2	953.1	902.0	843.5
7.5°	1466.4	1457.7	1453.9	1436.5	1411.6	1376.7	1328.1	1274.5	1208.5	1140.0	1051.5
10°	1664.5	1655.8	1640.8	1623.4	1603.5	1574.8	1527.5	1468.9	1396.6	1308.2	1204.8
12.5°	1794.1	1792.8	1767.9	1748.0	1723.1	1698.1	1649.6	1602.2	1531.2	1440.2	1323.1
15°	2101.8	2081.9	2049.5	1993.4	1923.6	1858.9	1780.4	1705.6	1628.4	1526.2	1395.4
17.5°	2485.5	2463.1	2408.3	2337.3	2225.1	2101.8	1967.3	1848.9	1733.0	1594.7	1440.2
20°	2755.9	2747.2	2701.1	2618.8	2499.2	2336.0	2159.1	1992.2	1829.0	1652.0	1461.4
22.5°	2929.1	2924.1	2905.4	2849.3	2727.2	2544.1	2316.1	2091.8	1895.0	1688.2	1455.2
25°	3006.3	3012.5	3015.0	2987.6	2889.2	2702.3	2432.0	2167.8	1932.4	1683.2	1407.8
27.5°	3061.1	3061.1	3071.1	3058.6	2959.0	2762.1	2476.8	2194.0	1919.9	1622.1	1308.2
30°	3193.2	3190.7	3196.9	3163.3	3025.0	2780.8	2456.9	2151.6	1848.9	1516.2	1164.9
32.5°	3250.5	3253.0	3251.8	3198.2	3037.5	2768.4	2408.3	2070.7	1718.1	1350.5	975.5
35°	3274.2	3263.0	3216.9	3094.8	2891.7	2602.7	2271.2	1933.6	1534.9	1143.7	770.0
37.5°	3195.7	3163.3	3061.1	2894.2	2646.3	2368.4	2044.5	1688.2	1292.0	897.0	579.3
40°	2967.7	2925.3	2797.0	2595.2	2368.4	2118.0	1776.6	1400.4	1010.4	671.5	406.2
42.5°	2645.0	2596.4	2458.1	2282.5	2075.6	1812.8	1472.6	1096.4	740.1	463.5	257.9
45°	2171.6	2144.2	2064.4	1916.2	1713.1	1440.2	1128.8	799.9	512.1	295.3	132.1
47.5°	1679.5	1644.6	1587.3	1485.1	1315.7	1056.5	789.9	543.2	328.9	145.8	27.4
50°	1292.0	1250.9	1181.1	1067.7	890.8	705.2	512.1	338.9	166.9	33.6	1.2
52.5°	743.8	752.5	718.9	646.6	548.2	422.4	296.5	170.7	37.4	1.2	0.0
55°	198.1	214.3	209.3	225.5	198.1	166.9	123.3	32.4	2.5	0.0	0.0
57.5°	0.0	0.0	1.2	2.5	7.5	11.2	3.7	1.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	606.7	580.6	548.2	428.6	322.7	231.7	180.7	166.9
5°	787.4	723.9	641.6	397.4	199.3	79.7	36.1	29.9
7.5°	958.1	864.6	716.4	347.6	100.9	19.9	10.0	8.7
10°	1090.1	964.3	771.2	284.1	37.4	7.5	6.2	6.2
12.5°	1181.1	1027.9	791.1	215.5	13.7	3.7	3.7	2.5
15°	1233.4	1052.8	772.4	148.3	5.0	2.5	0.0	0.0
17.5°	1249.6	1042.8	722.6	93.4	1.2	0.0	0.0	0.0
20°	1235.9	994.2	644.1	54.8	0.0	0.0	0.0	0.0
22.5°	1191.1	918.2	549.4	29.9	0.0	0.0	0.0	0.0
25°	1107.6	811.1	438.6	13.7	0.0	0.0	0.0	0.0
27.5°	971.8	672.8	330.2	5.0	0.0	0.0	0.0	0.0
30°	817.3	524.5	234.2	1.2	0.0	0.0	0.0	0.0
32.5°	637.9	386.2	150.8	0.0	0.0	0.0	0.0	0.0
35°	479.7	270.4	89.7	0.0	0.0	0.0	0.0	0.0
37.5°	333.9	170.7	47.3	0.0	0.0	0.0	0.0	0.0
40°	208.1	92.2	16.2	0.0	0.0	0.0	0.0	0.0
42.5°	115.9	32.4	1.2	0.0	0.0	0.0	0.0	0.0
45°	27.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	1.2	2.5	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	2.5	2.5	1.2	0.0	0.0	0.0
75°	1.2	1.2	2.5	2.5	1.2	0.0	0.0	0.0
77.5°	1.2	2.5	2.5	2.5	1.2	1.2	0.0	0.0
80°	1.2	2.5	2.5	2.5	2.5	1.2	0.0	0.0
82.5°	1.2	2.5	2.5	2.5	2.5	1.2	0.0	0.0
85°	1.2	2.5	2.5	2.5	1.2	1.2	0.0	0.0
87.5°	1.2	2.5	2.5	2.5	2.5	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)