

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: P1309449

Luminaire Tested: LDSQA3D17R509030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

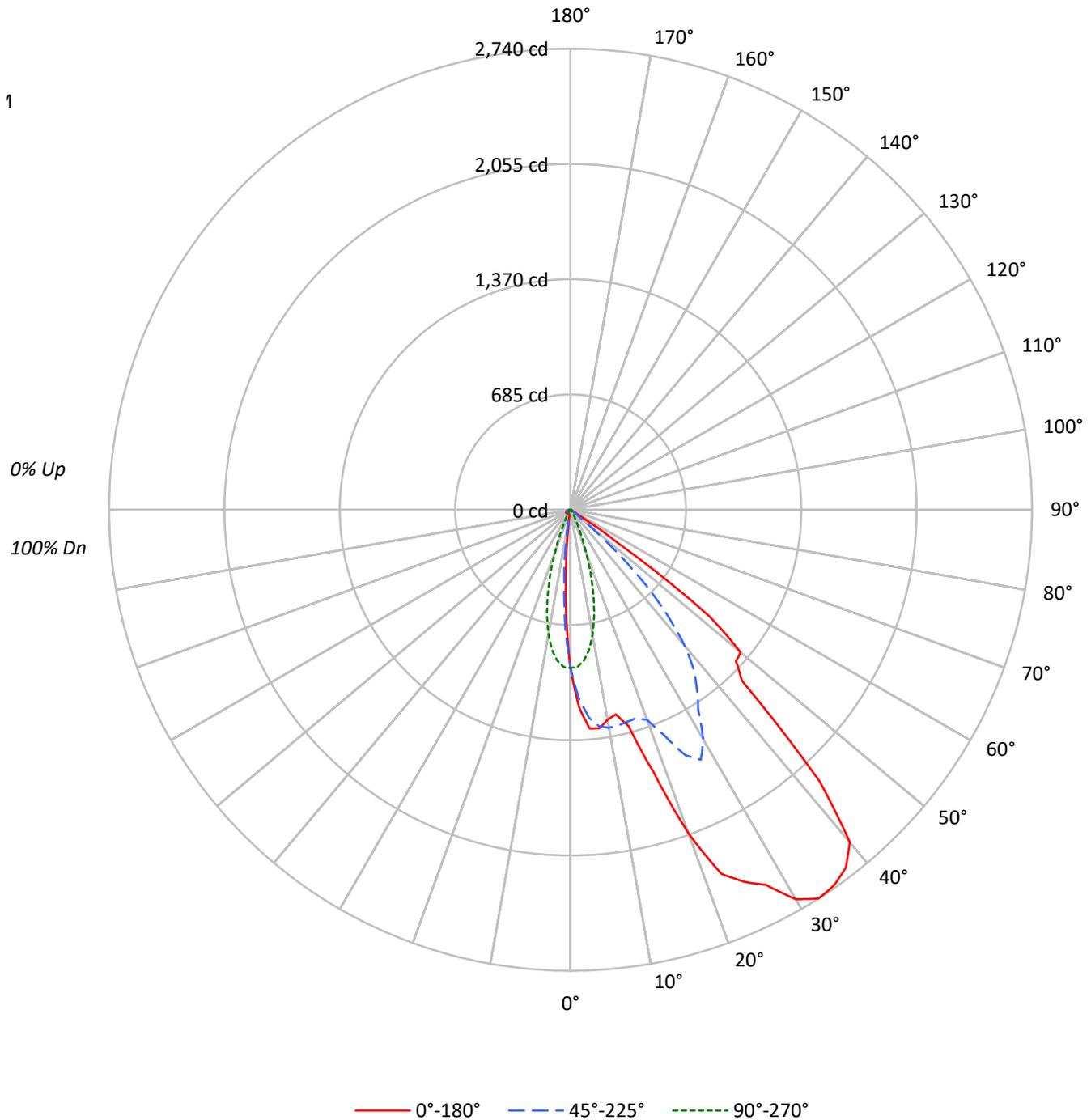
Test Method: LM-79-2019  
Report Number: P1309449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1462.1 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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	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	101	102	100	98	99	97	95	95	94	92	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	161872	161872	161872	161872	161872
5°	225713	214147	155592	74788	48528
10°	221572	230124	131509	15757	6750
15°	237618	232554	92982	5509	5278
20°	375220	243536	49081	4729	4948
25°	463665	305848	19573	4409	4903
30°	531568	313671	7935	4355	5131
35°	573086	275316	3511	4604	5677
40°	580105	237073	2608	5216	6362
45°	350604	153662	2509	5651	7209
50°	353267	26552	2760	6564	8279
55°	104371	1561	3093	7356	9278
60°	1791	1791	3100	7991	10196
65°	1589	1589	3138	8395	11003
70°	1964	1964	3223	9064	12337
75°	1730	1730	3460	9449	12843
80°	1289	2579	3868	8926	14083
85°	2569	5138	5138	10275	12647

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 400485 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	5.2
10°-20°	188.7	12.9
20°-30°	353.6	24.2
30°-40°	422.7	28.9
40°-50°	302.9	20.7
50°-60°	93.4	6.4
60°-70°	12.2	0.8
70°-80°	8.9	0.6
80°-90°	3.6	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°	618.3	42.3
0°-40°	1041.0	71.2
0°-60°	1437.3	98.3
0°-90°	1462.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1462.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	940	940	940	940	940	
5°	1306	1239	900	433	281	121
15°	1333	1304	522	31	30	427
25°	2440	1610	103	23	26	1124
35°	2726	1310	17	22	27	1691
45°	1440	631	10	23	30	1322
55°	348	5	10	24	31	448
65°	4	4	8	21	27	4
75°	3	3	5	14	19	2
85°	1	3	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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	1175.6	1178.1	1182.0	1171.7	1165.3	1160.1	1151.1	1148.5	1126.6	1117.6	1108.6
5°	1305.6	1303.0	1305.6	1301.8	1299.2	1291.5	1283.7	1270.9	1256.7	1238.7	1218.1
7.5°	1309.5	1306.9	1312.1	1312.1	1317.2	1317.2	1317.2	1318.5	1310.8	1297.9	1279.9
10°	1267.0	1267.0	1272.1	1269.6	1278.6	1282.4	1291.5	1306.9	1314.6	1315.9	1310.8
12.5°	1245.1	1245.1	1246.4	1241.2	1243.8	1247.7	1258.0	1276.0	1294.0	1312.1	1322.4
15°	1332.7	1335.2	1317.2	1291.5	1272.1	1251.5	1245.1	1256.7	1276.0	1304.3	1327.5
17.5°	1630.1	1634.0	1614.6	1552.8	1493.6	1408.6	1332.7	1295.3	1274.7	1297.9	1328.8
20°	2047.3	2033.1	1999.6	1934.0	1847.7	1716.4	1597.9	1478.2	1363.6	1328.8	1339.1
22.5°	2342.1	2337.0	2309.9	2236.5	2161.9	2039.5	1888.9	1721.5	1555.4	1449.8	1394.5
25°	2440.0	2436.1	2411.7	2367.9	2326.7	2234.0	2098.8	1930.1	1756.3	1609.5	1470.4
27.5°	2513.4	2508.2	2469.6	2420.7	2378.2	2284.2	2160.6	2033.1	1873.4	1675.2	1461.4
30°	2673.0	2658.9	2604.8	2517.2	2436.1	2306.1	2169.6	2011.2	1794.9	1577.3	1368.7
32.5°	2740.0	2732.3	2685.9	2615.1	2526.3	2356.3	2149.0	1883.7	1599.2	1411.2	1259.3
35°	2725.8	2714.2	2666.6	2585.5	2477.3	2313.8	2037.0	1672.6	1440.8	1309.5	1138.2
37.5°	2683.3	2666.6	2609.9	2514.7	2383.3	2169.6	1807.8	1501.3	1352.0	1203.9	973.4
40°	2580.3	2553.3	2487.6	2388.5	2257.1	1976.5	1599.2	1398.3	1259.3	1054.5	789.3
42.5°	2186.3	2172.2	2204.4	2187.6	2071.7	1740.8	1451.1	1304.3	1112.5	852.4	571.7
45°	1439.5	1464.0	1521.9	1621.1	1644.3	1497.5	1330.1	1149.8	915.5	630.9	329.6
47.5°	1332.7	1327.5	1341.7	1361.0	1364.8	1303.0	1151.1	950.2	679.8	360.5	91.4
50°	1318.5	1310.8	1299.2	1276.0	1227.1	1107.3	934.8	692.7	392.7	99.1	6.4
52.5°	1041.7	1033.9	1033.9	1000.5	937.4	821.5	645.1	381.1	109.4	6.4	5.2
55°	347.6	370.8	367.0	365.7	394.0	363.1	278.1	97.9	9.0	5.2	5.2
57.5°	6.4	6.4	6.4	11.6	18.0	25.8	15.5	7.7	5.2	5.2	5.2
60°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
62.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2
67.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9
77.5°	1.3	1.3	1.3	1.3	2.6	2.6	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	2.6	2.6	2.6	2.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	1088.0	1070.0	1035.2	936.1	826.6	701.7	616.8	606.5
5°	1185.9	1158.8	1102.2	900.0	650.2	432.6	321.9	280.7
7.5°	1250.3	1214.2	1144.7	840.8	473.8	227.9	122.3	97.9
10°	1288.9	1255.4	1166.6	752.0	301.3	90.1	41.2	38.6
12.5°	1309.5	1277.3	1174.3	645.1	170.0	41.2	32.2	32.2
15°	1323.6	1288.9	1162.7	521.5	85.0	30.9	29.6	29.6
17.5°	1330.1	1287.6	1129.2	392.7	45.1	28.3	28.3	28.3
20°	1333.9	1273.4	1067.4	267.8	30.9	25.8	27.0	27.0
22.5°	1337.8	1238.7	986.3	170.0	24.5	24.5	25.8	25.8
25°	1330.1	1178.1	871.7	103.0	21.9	23.2	24.5	25.8
27.5°	1274.7	1086.7	732.6	63.1	19.3	21.9	24.5	25.8
30°	1179.4	952.8	571.7	39.9	18.0	21.9	24.5	25.8
32.5°	1055.8	799.6	408.2	24.5	18.0	21.9	24.5	25.8
35°	889.7	611.6	265.2	16.7	18.0	21.9	25.8	27.0
37.5°	703.0	427.5	142.9	12.9	18.0	21.9	25.8	27.0
40°	506.0	256.2	51.5	11.6	16.7	23.2	27.0	28.3
42.5°	296.1	95.3	9.0	10.3	16.7	23.2	27.0	28.3
45°	85.0	10.3	5.2	10.3	16.7	23.2	28.3	29.6
47.5°	6.4	3.9	5.2	10.3	16.7	23.2	28.3	30.9
50°	3.9	3.9	3.9	10.3	16.7	24.5	29.6	30.9
52.5°	5.2	5.2	5.2	10.3	16.7	24.5	29.6	30.9
55°	5.2	5.2	5.2	10.3	16.7	24.5	29.6	30.9
57.5°	5.2	5.2	5.2	10.3	16.7	23.2	29.6	30.9
60°	5.2	5.2	5.2	9.0	15.5	23.2	28.3	29.6
62.5°	5.2	5.2	5.2	9.0	15.5	21.9	28.3	28.3
65°	5.2	5.2	5.2	7.7	14.2	20.6	25.8	27.0
67.5°	5.2	5.2	5.2	7.7	12.9	19.3	24.5	25.8
70°	3.9	5.2	5.2	6.4	11.6	18.0	23.2	24.5
72.5°	3.9	3.9	5.2	6.4	10.3	15.5	20.6	21.9
75°	3.9	3.9	3.9	5.2	9.0	14.2	18.0	19.3
77.5°	3.9	3.9	3.9	5.2	7.7	11.6	16.7	16.7
80°	2.6	3.9	3.9	3.9	6.4	9.0	12.9	14.2
82.5°	2.6	2.6	2.6	3.9	5.2	7.7	10.3	10.3
85°	2.6	2.6	2.6	2.6	3.9	5.2	6.4	6.4
87.5°	1.3	2.6	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)