

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: P1311685

Luminaire Tested: LDSQA3D17R509040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

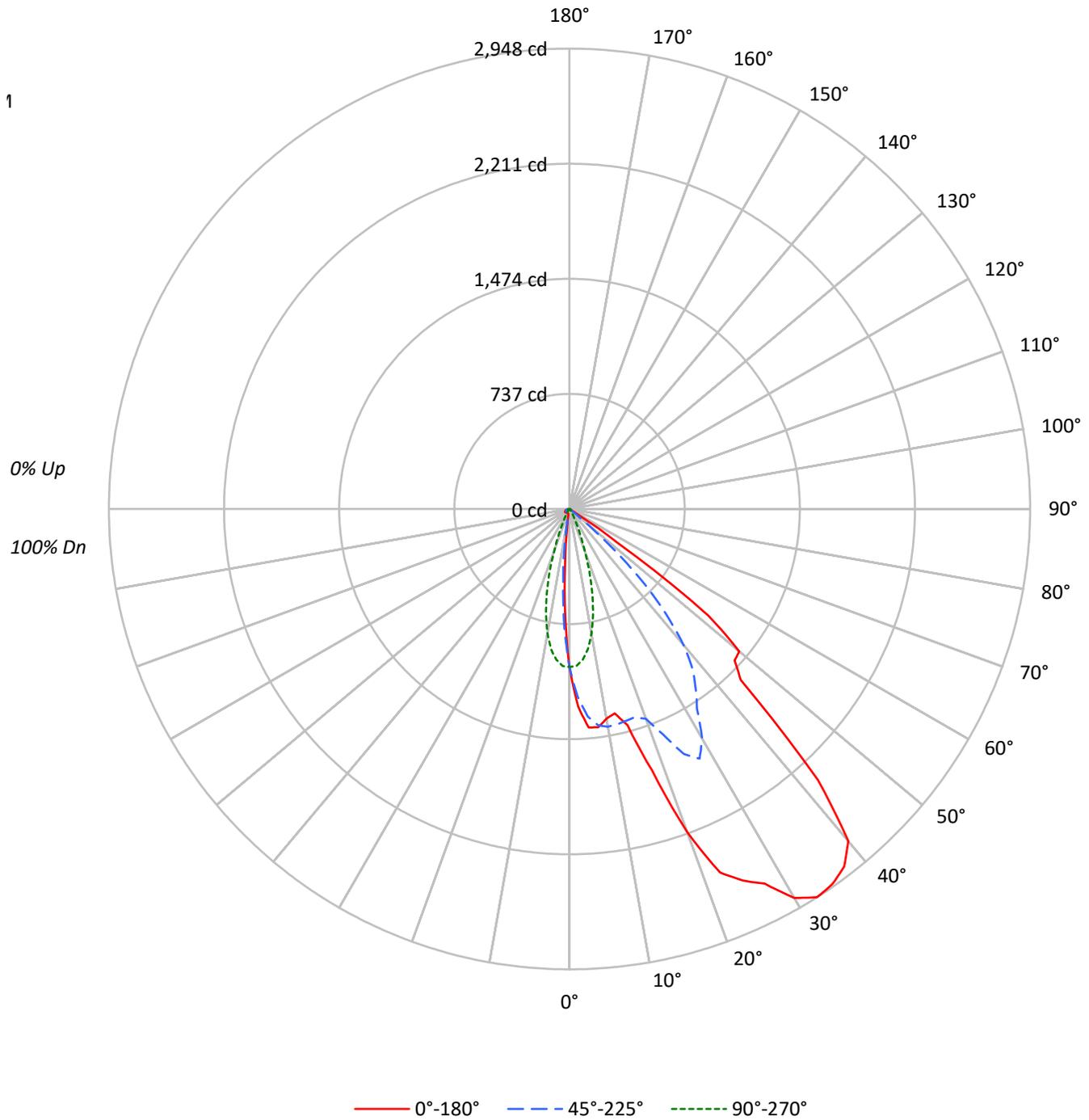
Test Method: LM-79-2019  
Report Number: P1311685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1573.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 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 (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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	36

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

	0°	45°	90°	135°	180°
0°	174169	174169	174169	174169	174169
5°	242845	230398	167417	80476	52210
10°	238396	247594	141477	16963	7275
15°	255644	250223	100043	5919	5688
20°	403701	262029	52820	5077	5333
25°	498858	329069	21055	4732	5264
30°	571937	337495	8531	4693	5509
35°	616607	296214	3784	4962	6118
40°	624147	255082	2810	5598	6857
45°	377225	165328	2704	6065	7770
50°	380087	28588	2974	7047	8895
55°	112298	1651	3333	7897	9969
60°	1894	1894	3341	8577	10988
65°	1712	1712	3382	9047	11859
70°	2115	2115	3474	9769	13243
75°	1863	1863	3660	10114	13841
80°	1389	2777	4166	9620	15075
85°	2766	5533	5533	10868	13635

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 430881 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	5.2
10°-20°	203.1	12.9
20°-30°	380.4	24.2
30°-40°	454.8	28.9
40°-50°	325.9	20.7
50°-60°	100.4	6.4
60°-70°	13.1	0.8
70°-80°	9.6	0.6
80°-90°	3.9	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°	665.2	42.3
0°-40°	1120.1	71.2
0°-60°	1546.4	98.3
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1011	1011	1011	1011	1011	
5°	1405	1333	968	466	302	131
15°	1434	1403	561	33	32	459
25°	2625	1732	111	25	28	1210
35°	2933	1409	18	24	29	1820
45°	1549	679	11	25	32	1423
55°	374	6	11	26	33	482
65°	4	4	8	22	29	5
75°	3	3	6	15	21	3
85°	1	3	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°	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	1264.8	1267.6	1271.8	1260.7	1253.7	1248.2	1238.5	1235.7	1212.2	1202.5	1192.8
5°	1404.7	1402.0	1404.7	1400.6	1397.8	1389.5	1381.2	1367.3	1352.1	1332.7	1310.5
7.5°	1408.9	1406.1	1411.7	1411.7	1417.2	1417.2	1417.2	1418.6	1410.3	1396.4	1377.0
10°	1363.2	1363.2	1368.7	1366.0	1375.7	1379.8	1389.5	1406.1	1414.4	1415.8	1410.3
12.5°	1339.6	1339.6	1341.0	1335.5	1338.2	1342.4	1353.5	1372.9	1392.3	1411.7	1422.8
15°	1433.8	1436.6	1417.2	1389.5	1368.7	1346.6	1339.6	1352.1	1372.9	1403.4	1428.3
17.5°	1753.9	1758.0	1737.2	1670.7	1607.0	1515.6	1433.8	1393.7	1371.5	1396.4	1429.7
20°	2202.7	2187.5	2151.4	2080.8	1988.0	1846.7	1719.2	1590.4	1467.1	1429.7	1440.8
22.5°	2520.0	2514.4	2485.3	2406.4	2326.0	2194.4	2032.3	1852.2	1673.5	1559.9	1500.3
25°	2625.2	2621.1	2594.8	2547.7	2503.3	2403.6	2258.1	2076.6	1889.6	1731.7	1582.1
27.5°	2704.2	2698.7	2657.1	2604.5	2558.7	2457.6	2324.6	2187.5	2015.7	1802.3	1572.4
30°	2876.0	2860.7	2802.6	2708.4	2621.1	2481.2	2334.3	2163.9	1931.2	1697.1	1472.6
32.5°	2948.0	2939.7	2889.8	2813.6	2718.1	2535.2	2312.1	2026.8	1720.6	1518.3	1354.9
35°	2932.8	2920.3	2869.1	2781.8	2665.4	2489.5	2191.6	1799.6	1550.2	1408.9	1224.6
37.5°	2887.1	2869.1	2808.1	2705.6	2564.3	2334.3	1945.0	1615.3	1454.6	1295.3	1047.3
40°	2776.2	2747.1	2676.5	2569.8	2428.5	2126.5	1720.6	1504.5	1354.9	1134.6	849.2
42.5°	2352.3	2337.1	2371.7	2353.7	2229.0	1873.0	1561.3	1403.4	1196.9	917.1	615.1
45°	1548.8	1575.1	1637.5	1744.2	1769.1	1611.2	1431.1	1237.1	985.0	678.8	354.6
47.5°	1433.8	1428.3	1443.5	1464.3	1468.5	1402.0	1238.5	1022.4	731.5	387.9	98.4
50°	1418.6	1410.3	1397.8	1372.9	1320.2	1191.4	1005.8	745.3	422.5	106.7	6.9
52.5°	1120.7	1112.4	1112.4	1076.4	1008.5	883.9	694.1	410.1	117.8	6.9	5.5
55°	374.0	399.0	394.8	393.4	423.9	390.7	299.2	105.3	9.7	5.5	5.5
57.5°	6.9	6.9	6.9	12.5	19.4	27.7	16.6	8.3	5.5	5.5	5.5
60°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
77.5°	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
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°	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	1170.6	1151.2	1113.8	1007.1	889.4	755.0	663.6	652.5
5°	1275.9	1246.8	1185.9	968.4	699.6	465.5	346.3	302.0
7.5°	1345.2	1306.4	1231.6	904.6	509.8	245.2	131.6	105.3
10°	1386.7	1350.7	1255.1	809.0	324.2	97.0	44.3	41.6
12.5°	1408.9	1374.3	1263.4	694.1	182.9	44.3	34.6	34.6
15°	1424.1	1386.7	1251.0	561.1	91.4	33.2	31.9	31.9
17.5°	1431.1	1385.3	1215.0	422.5	48.5	30.5	30.5	30.5
20°	1435.2	1370.1	1148.5	288.2	33.2	27.7	29.1	29.1
22.5°	1439.4	1332.7	1061.2	182.9	26.3	26.3	27.7	27.7
25°	1431.1	1267.6	937.9	110.8	23.6	24.9	26.3	27.7
27.5°	1371.5	1169.2	788.3	67.9	20.8	23.6	26.3	27.7
30°	1269.0	1025.2	615.1	42.9	19.4	23.6	26.3	27.7
32.5°	1136.0	860.3	439.2	26.3	19.4	23.6	26.3	27.7
35°	957.3	658.0	285.4	18.0	19.4	23.6	27.7	29.1
37.5°	756.4	459.9	153.8	13.9	19.4	23.6	27.7	29.1
40°	544.4	275.7	55.4	12.5	18.0	24.9	29.1	30.5
42.5°	318.6	102.5	9.7	11.1	18.0	24.9	29.1	30.5
45°	91.4	11.1	5.5	11.1	18.0	24.9	30.5	31.9
47.5°	6.9	4.2	5.5	11.1	18.0	24.9	30.5	33.2
50°	4.2	4.2	4.2	11.1	18.0	26.3	31.9	33.2
52.5°	5.5	5.5	5.5	11.1	18.0	26.3	31.9	33.2
55°	5.5	5.5	5.5	11.1	18.0	26.3	31.9	33.2
57.5°	5.5	5.5	5.5	11.1	18.0	24.9	31.9	33.2
60°	5.5	5.5	5.5	9.7	16.6	24.9	30.5	31.9
62.5°	5.5	5.5	5.5	9.7	16.6	23.6	30.5	30.5
65°	5.5	5.5	5.5	8.3	15.2	22.2	27.7	29.1
67.5°	5.5	5.5	5.5	8.3	13.9	20.8	26.3	27.7
70°	4.2	5.5	5.5	6.9	12.5	19.4	24.9	26.3
72.5°	4.2	4.2	5.5	6.9	11.1	16.6	22.2	23.6
75°	4.2	4.2	4.2	5.5	9.7	15.2	19.4	20.8
77.5°	4.2	4.2	4.2	5.5	8.3	12.5	18.0	18.0
80°	2.8	4.2	4.2	4.2	6.9	9.7	13.9	15.2
82.5°	2.8	2.8	2.8	4.2	5.5	8.3	11.1	11.1
85°	2.8	2.8	2.8	2.8	4.2	5.5	6.9	6.9
87.5°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)