

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: P1312762

Luminaire Tested: LDSQA3D17R509050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

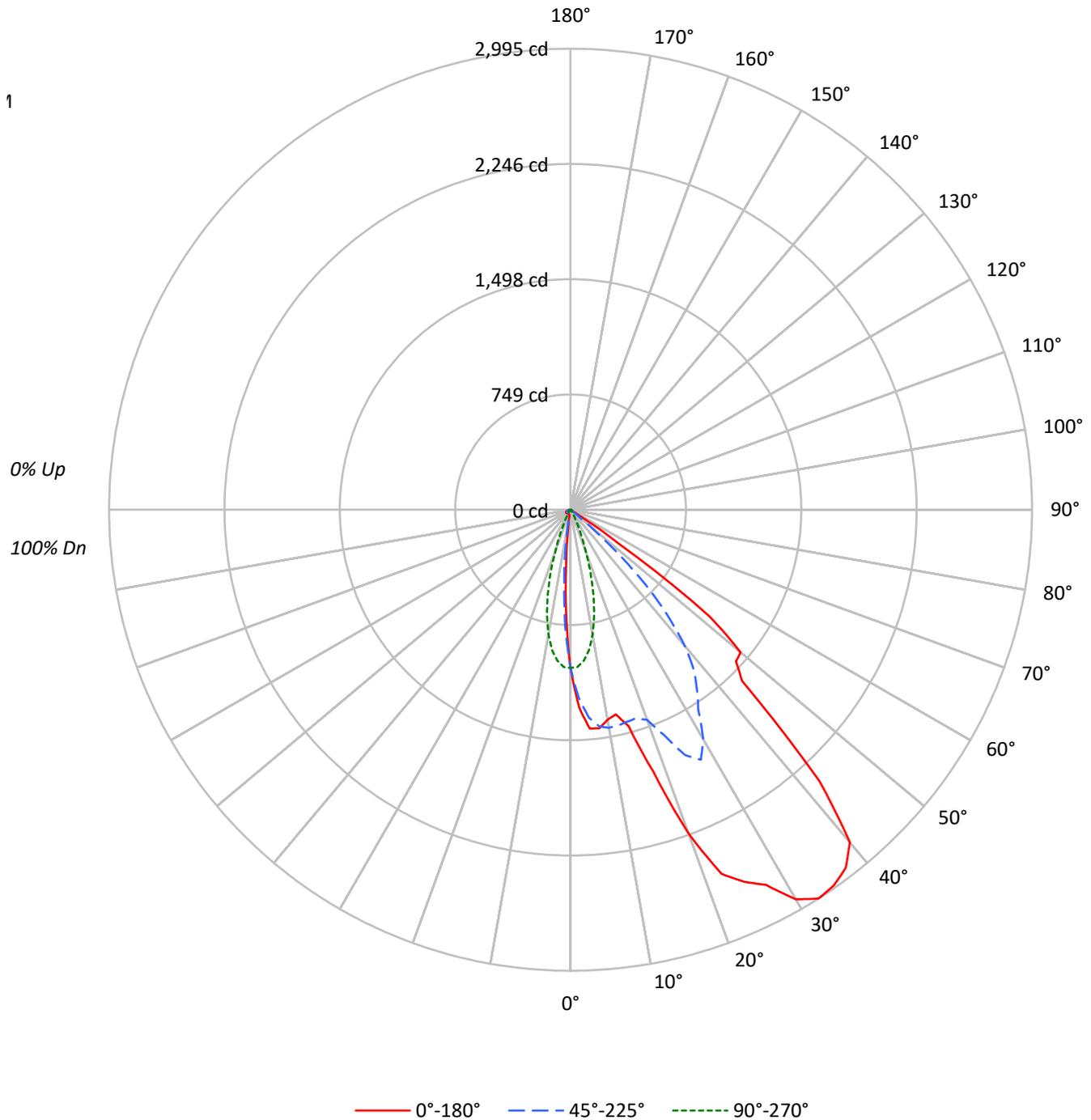
Test Method: LM-79-2019  
Report Number: P1312762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1598.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 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	100	100	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53	53	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36

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

	0°	45°	90°	135°	180°
0°	176942	176942	176942	176942	176942
5°	246718	234063	170063	81755	53040
10°	242173	251529	143733	17226	7380
15°	259709	254199	101630	6026	5777
20°	410116	266189	53645	5150	5425
25°	506801	334295	21397	4808	5340
30°	581026	342844	8671	4753	5588
35°	626404	300924	3847	5025	6223
40°	634084	259128	2855	5688	6969
45°	383217	167959	2752	6162	7891
50°	386115	29044	3028	7154	9056
55°	114099	1681	3393	8017	10149
60°	1929	1929	3410	8714	11160
65°	1712	1712	3423	9169	12062
70°	2115	2115	3525	9920	13445
75°	1863	1863	3726	10314	14040
80°	1389	2777	4166	9819	15373
85°	2766	5533	5533	11066	13832

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 437725 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	5.2
10°-20°	206.3	12.9
20°-30°	386.4	24.2
30°-40°	462.0	28.9
40°-50°	331.1	20.7
50°-60°	102.1	6.4
60°-70°	13.3	0.8
70°-80°	9.7	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°	675.8	42.3
0°-40°	1137.8	71.2
0°-60°	1571.0	98.3
0°-90°	1598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1027	1027	1027	1027	1027	
5°	1427	1354	984	473	307	133
15°	1457	1426	570	34	32	467
25°	2667	1759	113	25	28	1229
35°	2979	1431	18	24	30	1848
45°	1573	690	11	25	32	1445
55°	380	6	11	27	34	489
65°	4	4	8	22	30	5
75°	3	3	6	16	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°	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4
2.5°	1284.9	1287.7	1292.0	1280.7	1273.7	1268.0	1258.2	1255.4	1231.4	1221.6	1211.7
5°	1427.1	1424.3	1427.1	1422.8	1420.0	1411.6	1403.1	1389.1	1373.6	1353.9	1331.4
7.5°	1431.3	1428.5	1434.1	1434.1	1439.7	1439.7	1439.7	1441.1	1432.7	1418.6	1398.9
10°	1384.8	1384.8	1390.5	1387.7	1397.5	1401.7	1411.6	1428.5	1436.9	1438.3	1432.7
12.5°	1360.9	1360.9	1362.3	1356.7	1359.5	1363.7	1375.0	1394.7	1414.4	1434.1	1445.4
15°	1456.6	1459.4	1439.7	1411.6	1390.5	1368.0	1360.9	1373.6	1394.7	1425.7	1451.0
17.5°	1781.7	1785.9	1764.8	1697.3	1632.5	1539.7	1456.6	1415.8	1393.3	1418.6	1452.4
20°	2237.7	2222.2	2185.6	2113.9	2019.6	1876.0	1746.5	1615.7	1490.4	1452.4	1463.7
22.5°	2560.0	2554.4	2524.8	2444.6	2363.0	2229.3	2064.6	1881.6	1700.1	1584.7	1524.2
25°	2667.0	2662.7	2636.0	2588.1	2543.1	2441.8	2294.0	2109.6	1919.6	1759.2	1607.2
27.5°	2747.2	2741.6	2699.3	2645.9	2599.4	2496.7	2361.6	2222.2	2047.7	1831.0	1597.4
30°	2921.7	2906.2	2847.1	2751.4	2662.7	2520.6	2371.4	2198.3	1961.9	1724.0	1496.0
32.5°	2994.9	2986.4	2935.8	2858.4	2761.3	2575.5	2348.9	2059.0	1747.9	1542.5	1376.4
35°	2979.4	2966.7	2914.7	2826.0	2707.8	2529.0	2226.5	1828.2	1574.8	1431.3	1244.1
37.5°	2933.0	2914.7	2852.7	2748.6	2605.0	2371.4	1975.9	1641.0	1477.7	1315.9	1064.0
40°	2820.4	2790.8	2719.0	2610.7	2467.1	2160.3	1747.9	1528.4	1376.4	1152.6	862.7
42.5°	2389.7	2374.2	2409.4	2391.1	2264.5	1902.8	1586.1	1425.7	1216.0	931.7	624.9
45°	1573.4	1600.2	1663.5	1771.9	1797.2	1636.8	1453.8	1256.8	1000.6	689.6	360.3
47.5°	1456.6	1451.0	1466.5	1487.6	1491.8	1424.3	1258.2	1038.6	743.1	394.1	99.9
50°	1441.1	1432.7	1420.0	1394.7	1341.2	1210.3	1021.7	757.2	429.2	108.4	7.0
52.5°	1138.6	1130.1	1130.1	1093.5	1024.6	897.9	705.1	416.6	119.6	7.0	5.6
55°	380.0	405.3	401.1	399.7	430.7	396.9	304.0	107.0	9.9	5.6	5.6
57.5°	7.0	7.0	7.0	12.7	19.7	28.1	16.9	8.4	5.6	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6
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°	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4	1027.4
2.5°	1189.2	1169.5	1131.5	1023.2	903.5	767.0	674.1	662.9
5°	1296.2	1266.6	1204.7	983.7	710.7	472.9	351.8	306.8
7.5°	1366.6	1327.1	1251.1	919.0	517.9	249.1	133.7	107.0
10°	1408.8	1372.2	1275.1	821.9	329.3	98.5	45.0	42.2
12.5°	1431.3	1396.1	1283.5	705.1	185.8	45.0	35.2	35.2
15°	1446.8	1408.8	1270.9	570.0	92.9	33.8	32.4	32.4
17.5°	1453.8	1407.4	1234.3	429.2	49.3	31.0	31.0	31.0
20°	1458.0	1391.9	1166.7	292.7	33.8	28.1	29.6	29.6
22.5°	1462.3	1353.9	1078.0	185.8	26.7	26.7	28.1	28.1
25°	1453.8	1287.7	952.8	112.6	23.9	25.3	26.7	28.1
27.5°	1393.3	1187.8	800.8	69.0	21.1	23.9	26.7	28.1
30°	1289.1	1041.5	624.9	43.6	19.7	23.9	26.7	28.1
32.5°	1154.0	874.0	446.1	26.7	19.7	23.9	26.7	28.1
35°	972.5	668.5	289.9	18.3	19.7	23.9	28.1	29.6
37.5°	768.4	467.2	156.2	14.1	19.7	23.9	28.1	29.6
40°	553.1	280.1	56.3	12.7	18.3	25.3	29.6	31.0
42.5°	323.7	104.1	9.9	11.3	18.3	25.3	29.6	31.0
45°	92.9	11.3	5.6	11.3	18.3	25.3	31.0	32.4
47.5°	7.0	4.2	5.6	11.3	18.3	25.3	31.0	33.8
50°	4.2	4.2	4.2	11.3	18.3	26.7	32.4	33.8
52.5°	5.6	5.6	5.6	11.3	18.3	26.7	32.4	33.8
55°	5.6	5.6	5.6	11.3	18.3	26.7	32.4	33.8
57.5°	5.6	5.6	5.6	11.3	18.3	25.3	32.4	33.8
60°	5.6	5.6	5.6	9.9	16.9	25.3	31.0	32.4
62.5°	5.6	5.6	5.6	9.9	16.9	23.9	31.0	31.0
65°	5.6	5.6	5.6	8.4	15.5	22.5	28.1	29.6
67.5°	5.6	5.6	5.6	8.4	14.1	21.1	26.7	28.1
70°	4.2	5.6	5.6	7.0	12.7	19.7	25.3	26.7
72.5°	4.2	4.2	5.6	7.0	11.3	16.9	22.5	23.9
75°	4.2	4.2	4.2	5.6	9.9	15.5	19.7	21.1
77.5°	4.2	4.2	4.2	5.6	8.4	12.7	18.3	18.3
80°	2.8	4.2	4.2	4.2	7.0	9.9	14.1	15.5
82.5°	2.8	2.8	2.8	4.2	5.6	8.4	11.3	11.3
85°	2.8	2.8	2.8	2.8	4.2	5.6	7.0	7.0
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)