

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: P1315804

Luminaire Tested: LDSQA3D17R459735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

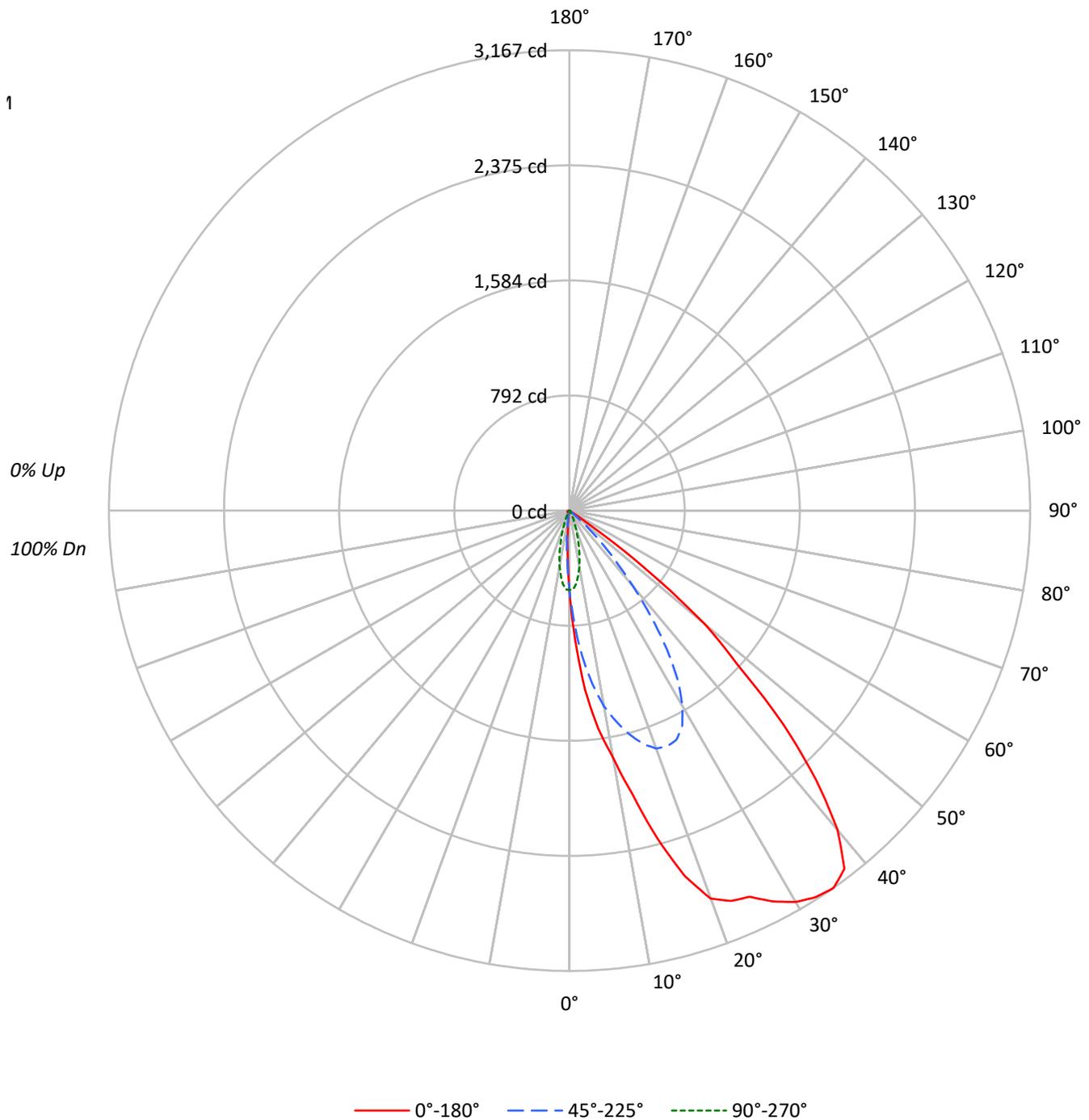
Test Method: LM-79-2019  
Report Number: P1315804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1435.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
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

TEST NUMBER: P1315804  
CATALOG NUMBER: LDSQA3D17R459735DE010 3LSQCA30R 1MW

### 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	94034	94034	94034	94034	94034
5°	214320	173866	87962	35268	24065
10°	301999	238833	67993	7765	3568
15°	416183	284154	43433	2567	2140
20°	520392	319138	22653	1759	1759
25°	556892	330437	10489	1368	1596
30°	618134	308580	4773	1432	1670
35°	665867	246008	1514	1514	2018
40°	644291	152451	809	1888	2428
45°	505971	71899	877	2338	2923
50°	325081	8359	1286	2894	3858
55°	49363	721	1441	3603	4684
60°	827	827	1653	4133	4960
65°	978	978	1956	4401	5868
70°	1209	1209	2417	4834	6647
75°	799	1597	3194	5590	7187
80°	1190	2380	3570	5951	8331
85°	0	2371	4742	7114	7114

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 505971 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	4.2
10°-20°	216.1	15.1
20°-30°	379.6	26.5
30°-40°	431.0	30.0
40°-50°	279.1	19.4
50°-60°	54.8	3.8
60°-70°	6.7	0.5
70°-80°	5.5	0.4
80°-90°	2.5	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°	655.4	45.7
0°-40°	1086.4	75.7
0°-60°	1420.3	99.0
0°-90°	1435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	546	546	546	546	546	
5°	1240	1006	509	204	139	132
15°	2334	1594	244	14	12	672
25°	2931	1739	55	7	8	1374
35°	3167	1170	7	7	10	1947
45°	2077	295	4	10	12	1566
55°	164	2	5	12	16	314
65°	2	2	5	11	14	2
75°	1	2	5	8	11	1
85°	0	1	2	4	4	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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	886.9	884.5	888.1	864.1	862.9	844.9	840.1	819.7	792.1	778.9	747.7
5°	1239.7	1227.7	1227.7	1198.9	1189.3	1168.9	1134.1	1090.9	1054.9	1005.7	952.9
7.5°	1512.1	1509.7	1509.7	1484.5	1460.5	1431.7	1384.9	1335.7	1278.1	1202.5	1125.7
10°	1726.9	1730.5	1719.7	1696.9	1662.1	1630.9	1575.7	1515.7	1444.9	1365.7	1263.7
12.5°	1998.2	1971.8	1963.4	1911.8	1867.4	1807.4	1741.3	1672.9	1585.3	1485.7	1370.5
15°	2334.2	2300.6	2267.0	2198.6	2124.2	2031.8	1928.6	1827.8	1714.9	1593.7	1449.7
17.5°	2634.2	2634.2	2589.8	2481.8	2385.8	2249.0	2109.8	1975.4	1842.2	1682.5	1502.5
20°	2839.4	2828.6	2795.0	2715.8	2606.6	2451.8	2270.6	2082.2	1921.4	1741.3	1532.5
22.5°	2906.6	2904.2	2905.4	2858.6	2771.0	2610.2	2388.2	2166.2	1964.6	1755.7	1518.1
25°	2930.6	2935.4	2947.4	2929.4	2863.4	2702.6	2460.2	2205.8	1977.8	1738.9	1462.9
27.5°	3030.3	3020.7	3033.9	3021.9	2947.4	2755.4	2474.6	2196.2	1949.0	1677.7	1364.5
30°	3108.3	3105.9	3128.7	3117.9	3020.7	2789.0	2461.4	2160.2	1878.2	1551.7	1209.7
32.5°	3152.7	3153.9	3159.9	3115.5	2971.5	2715.8	2396.6	2087.0	1744.9	1387.3	1008.1
35°	3167.1	3159.9	3126.3	3017.1	2820.2	2546.6	2237.0	1913.0	1563.7	1170.1	796.9
37.5°	3104.7	3067.5	2981.1	2817.8	2589.8	2334.2	2033.0	1693.3	1315.3	924.1	594.1
40°	2865.8	2816.6	2707.4	2540.6	2328.2	2081.0	1772.5	1417.3	1020.1	678.1	417.6
42.5°	2508.2	2483.0	2369.0	2223.8	2043.8	1794.2	1476.1	1116.1	754.9	468.0	266.4
45°	2077.4	2045.0	1973.0	1844.6	1702.9	1441.3	1144.9	799.3	514.8	295.2	132.0
47.5°	1557.7	1560.1	1510.9	1413.7	1274.5	1056.1	783.7	536.4	322.8	152.4	30.0
50°	1213.3	1196.5	1126.9	1027.3	865.3	703.3	506.4	338.4	170.4	31.2	2.4
52.5°	672.1	682.9	645.7	613.3	529.2	420.0	298.8	171.6	36.0	3.6	2.4
55°	164.4	174.0	166.8	170.4	176.4	157.2	121.2	33.6	3.6	2.4	2.4
57.5°	3.6	3.6	3.6	3.6	6.0	8.4	8.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	732.1	709.3	667.3	542.4	435.6	351.6	301.2	296.4
5°	906.1	844.9	756.1	508.8	321.6	204.0	147.6	139.2
7.5°	1044.1	957.7	820.9	453.6	219.6	104.4	57.6	48.0
10°	1158.1	1035.7	854.5	388.8	138.0	44.4	24.0	20.4
12.5°	1236.1	1088.5	860.5	316.8	79.2	21.6	15.6	14.4
15°	1286.5	1105.3	831.7	243.6	44.4	14.4	13.2	12.0
17.5°	1306.9	1090.9	776.5	176.4	24.0	10.8	10.8	10.8
20°	1297.3	1044.1	694.9	123.6	15.6	9.6	9.6	9.6
22.5°	1251.7	963.7	592.9	82.8	10.8	8.4	8.4	8.4
25°	1161.7	854.5	484.8	55.2	7.2	7.2	8.4	8.4
27.5°	1027.3	720.1	370.8	37.2	6.0	7.2	8.4	8.4
30°	858.1	570.0	266.4	24.0	6.0	7.2	7.2	8.4
32.5°	681.7	415.2	175.2	14.4	4.8	7.2	8.4	9.6
35°	494.4	283.2	111.6	7.2	6.0	7.2	8.4	9.6
37.5°	346.8	184.8	64.8	4.8	6.0	7.2	9.6	9.6
40°	225.6	103.2	24.0	3.6	6.0	8.4	9.6	10.8
42.5°	117.6	36.0	4.8	3.6	6.0	8.4	10.8	12.0
45°	30.0	4.8	1.2	3.6	7.2	9.6	12.0	12.0
47.5°	3.6	1.2	1.2	4.8	7.2	10.8	12.0	13.2
50°	1.2	2.4	2.4	4.8	7.2	10.8	13.2	14.4
52.5°	2.4	2.4	2.4	4.8	8.4	10.8	14.4	15.6
55°	2.4	2.4	2.4	4.8	8.4	12.0	14.4	15.6
57.5°	2.4	2.4	2.4	4.8	8.4	12.0	14.4	14.4
60°	2.4	2.4	2.4	4.8	8.4	12.0	14.4	14.4
62.5°	2.4	2.4	3.6	4.8	8.4	10.8	14.4	14.4
65°	2.4	3.6	3.6	4.8	8.4	10.8	13.2	14.4
67.5°	2.4	2.4	3.6	4.8	8.4	10.8	13.2	14.4
70°	2.4	2.4	3.6	4.8	7.2	9.6	12.0	13.2
72.5°	2.4	2.4	3.6	4.8	7.2	9.6	10.8	12.0
75°	2.4	2.4	3.6	4.8	6.0	8.4	10.8	10.8
77.5°	2.4	2.4	3.6	3.6	6.0	7.2	9.6	9.6
80°	2.4	2.4	3.6	3.6	4.8	6.0	7.2	8.4
82.5°	2.4	2.4	2.4	3.6	3.6	4.8	6.0	6.0
85°	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6
87.5°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)