

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: P1320291

Luminaire Tested: LDSQA3D17R459840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320291  
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: LDSQA3D17R459840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

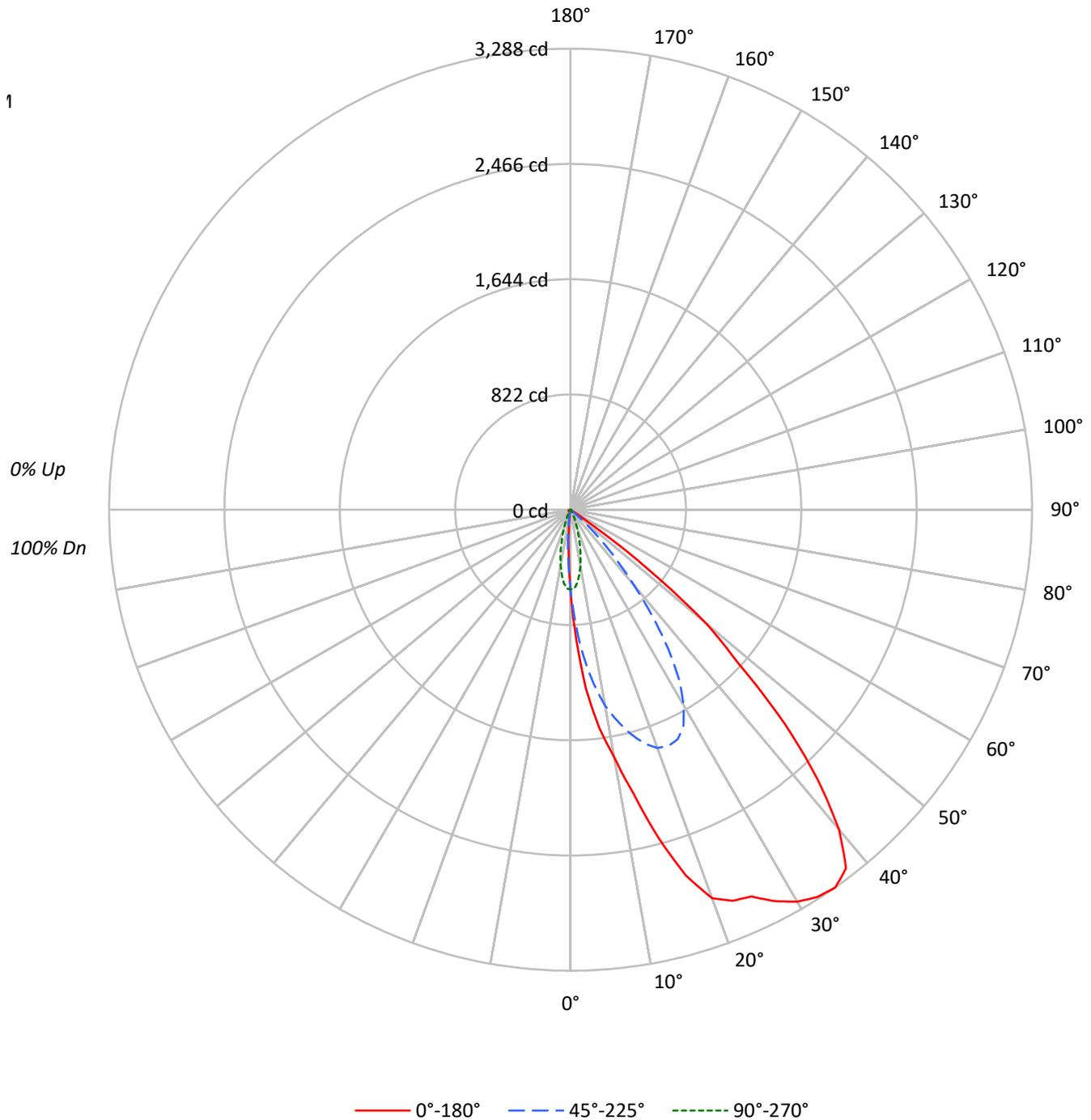
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1490.0 lumens  
Efficiency: N/A  
Efficacy: 73.0 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): 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	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	82	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	47	47	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	39	39	37

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

	0°	45°	90°	135°	180°
0°	97650	97650	97650	97650	97650
5°	222532	180522	91333	36616	24981
10°	313576	247997	70599	8062	3707
15°	432141	295048	45109	2674	2229
20°	540351	331380	23514	1833	1833
25°	578251	343112	10889	1425	1653
30°	641819	320412	4952	1491	1730
35°	691391	255427	1577	1577	2102
40°	668999	158274	832	1956	2518
45°	525358	74651	901	2436	3044
50°	337539	8681	1340	3001	4019
55°	51255	751	1501	3753	4864
60°	861	861	1722	4306	5167
65°	1019	1019	2038	4564	6113
70°	1259	1259	2518	5035	6899
75°	799	1664	3327	5789	7453
80°	1190	2479	3670	6149	8629
85°	0	2371	4940	7311	7311

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 525358 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	4.2
10°-20°	224.3	15.1
20°-30°	394.1	26.5
30°-40°	447.6	30.0
40°-50°	289.8	19.4
50°-60°	56.9	3.8
60°-70°	6.9	0.5
70°-80°	5.7	0.4
80°-90°	2.6	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°	680.5	45.7
0°-40°	1128.1	75.7
0°-60°	1474.8	99.0
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	567	567	567	567	567	
5°	1287	1044	528	212	144	137
15°	2424	1655	253	15	12	698
25°	3043	1806	57	8	9	1426
35°	3288	1215	8	8	10	2022
45°	2157	306	4	10	12	1626
55°	171	2	5	12	16	326
65°	2	2	5	11	15	2
75°	1	2	5	9	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°	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
2.5°	920.9	918.4	922.1	897.2	895.9	877.3	872.3	851.1	822.4	808.7	776.3
5°	1287.2	1274.8	1274.8	1244.9	1234.9	1213.7	1177.6	1132.7	1095.3	1044.2	989.4
7.5°	1570.1	1567.6	1567.6	1541.4	1516.5	1486.6	1438.0	1386.9	1327.1	1248.6	1168.8
10°	1793.1	1796.9	1785.7	1762.0	1725.8	1693.4	1636.1	1573.8	1500.3	1418.1	1312.1
12.5°	2074.8	2047.3	2038.6	1985.0	1938.9	1876.6	1808.1	1737.1	1646.1	1542.7	1423.0
15°	2423.7	2388.8	2353.9	2282.9	2205.6	2109.6	2002.5	1897.8	1780.7	1654.8	1505.3
17.5°	2735.2	2735.2	2689.1	2576.9	2477.2	2335.2	2190.6	2051.1	1912.8	1747.0	1560.1
20°	2948.3	2937.1	2902.2	2819.9	2706.5	2545.8	2357.6	2162.0	1995.0	1808.1	1591.3
22.5°	3018.1	3015.6	3016.8	2968.2	2877.2	2710.3	2479.7	2249.2	2039.9	1823.0	1576.3
25°	3043.0	3048.0	3060.4	3041.7	2973.2	2806.2	2554.5	2290.3	2053.6	1805.6	1519.0
27.5°	3146.4	3136.4	3150.1	3137.7	3060.4	2861.0	2569.5	2280.4	2023.7	1742.0	1416.8
30°	3227.4	3224.9	3248.6	3237.4	3136.4	2895.9	2555.7	2243.0	1950.1	1611.2	1256.1
32.5°	3273.5	3274.7	3281.0	3234.9	3085.3	2819.9	2488.5	2167.0	1811.8	1440.5	1046.7
35°	3288.5	3281.0	3246.1	3132.7	2928.3	2644.2	2322.7	1986.3	1623.7	1214.9	827.4
37.5°	3223.7	3185.0	3095.3	2925.8	2689.1	2423.7	2110.9	1758.2	1365.7	959.5	616.8
40°	2975.7	2924.6	2811.2	2638.0	2417.4	2160.7	1840.5	1471.6	1059.2	704.0	433.6
42.5°	2604.3	2578.2	2459.8	2309.0	2122.1	1862.9	1532.7	1158.9	783.8	486.0	276.6
45°	2157.0	2123.4	2048.6	1915.3	1768.2	1496.6	1188.8	829.9	534.6	306.5	137.1
47.5°	1617.4	1619.9	1568.8	1467.9	1323.4	1096.6	813.7	557.0	335.2	158.3	31.2
50°	1259.8	1242.4	1170.1	1066.7	898.4	730.2	525.9	351.4	176.9	32.4	2.5
52.5°	697.8	709.0	670.4	636.8	549.5	436.1	310.3	178.2	37.4	3.7	2.5
55°	170.7	180.7	173.2	176.9	183.2	163.2	125.9	34.9	3.7	2.5	2.5
57.5°	3.7	3.7	3.7	3.7	6.2	8.7	8.7	2.5	2.5	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5
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°	567.0	567.0	567.0	567.0	567.0	567.0	567.0	567.0
2.5°	760.1	736.4	692.8	563.2	452.3	365.1	312.8	307.8
5°	940.8	877.3	785.0	528.3	334.0	211.8	153.3	144.5
7.5°	1084.1	994.4	852.3	471.0	228.0	108.4	59.8	49.8
10°	1202.5	1075.4	887.2	403.7	143.3	46.1	24.9	21.2
12.5°	1283.5	1130.2	893.5	329.0	82.2	22.4	16.2	15.0
15°	1335.8	1147.7	863.5	253.0	46.1	15.0	13.7	12.5
17.5°	1357.0	1132.7	806.2	183.2	24.9	11.2	11.2	11.2
20°	1347.0	1084.1	721.5	128.3	16.2	10.0	10.0	10.0
22.5°	1299.7	1000.6	615.6	86.0	11.2	8.7	8.7	8.7
25°	1206.2	887.2	503.4	57.3	7.5	7.5	8.7	8.7
27.5°	1066.7	747.7	385.0	38.6	6.2	7.5	8.7	8.7
30°	891.0	591.9	276.6	24.9	6.2	7.5	7.5	8.7
32.5°	707.8	431.2	181.9	15.0	5.0	7.5	8.7	10.0
35°	513.4	294.1	115.9	7.5	6.2	7.5	8.7	10.0
37.5°	360.1	191.9	67.3	5.0	6.2	7.5	10.0	10.0
40°	234.3	107.2	24.9	3.7	6.2	8.7	10.0	11.2
42.5°	122.1	37.4	5.0	3.7	6.2	8.7	11.2	12.5
45°	31.2	5.0	1.2	3.7	7.5	10.0	12.5	12.5
47.5°	3.7	1.2	1.2	5.0	7.5	11.2	12.5	13.7
50°	1.2	2.5	2.5	5.0	7.5	11.2	13.7	15.0
52.5°	2.5	2.5	2.5	5.0	8.7	11.2	15.0	16.2
55°	2.5	2.5	2.5	5.0	8.7	12.5	15.0	16.2
57.5°	2.5	2.5	2.5	5.0	8.7	12.5	15.0	15.0
60°	2.5	2.5	2.5	5.0	8.7	12.5	15.0	15.0
62.5°	2.5	2.5	3.7	5.0	8.7	11.2	15.0	15.0
65°	2.5	3.7	3.7	5.0	8.7	11.2	13.7	15.0
67.5°	2.5	2.5	3.7	5.0	8.7	11.2	13.7	15.0
70°	2.5	2.5	3.7	5.0	7.5	10.0	12.5	13.7
72.5°	2.5	2.5	3.7	5.0	7.5	10.0	11.2	12.5
75°	2.5	2.5	3.7	5.0	6.2	8.7	11.2	11.2
77.5°	2.5	2.5	3.7	3.7	6.2	7.5	10.0	10.0
80°	2.5	2.5	3.7	3.7	5.0	6.2	7.5	8.7
82.5°	2.5	2.5	2.5	3.7	3.7	5.0	6.2	6.2
85°	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)