

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: P1308165

Luminaire Tested: LDSQA3D13R459027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308165  
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: LDSQA3D13R459027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

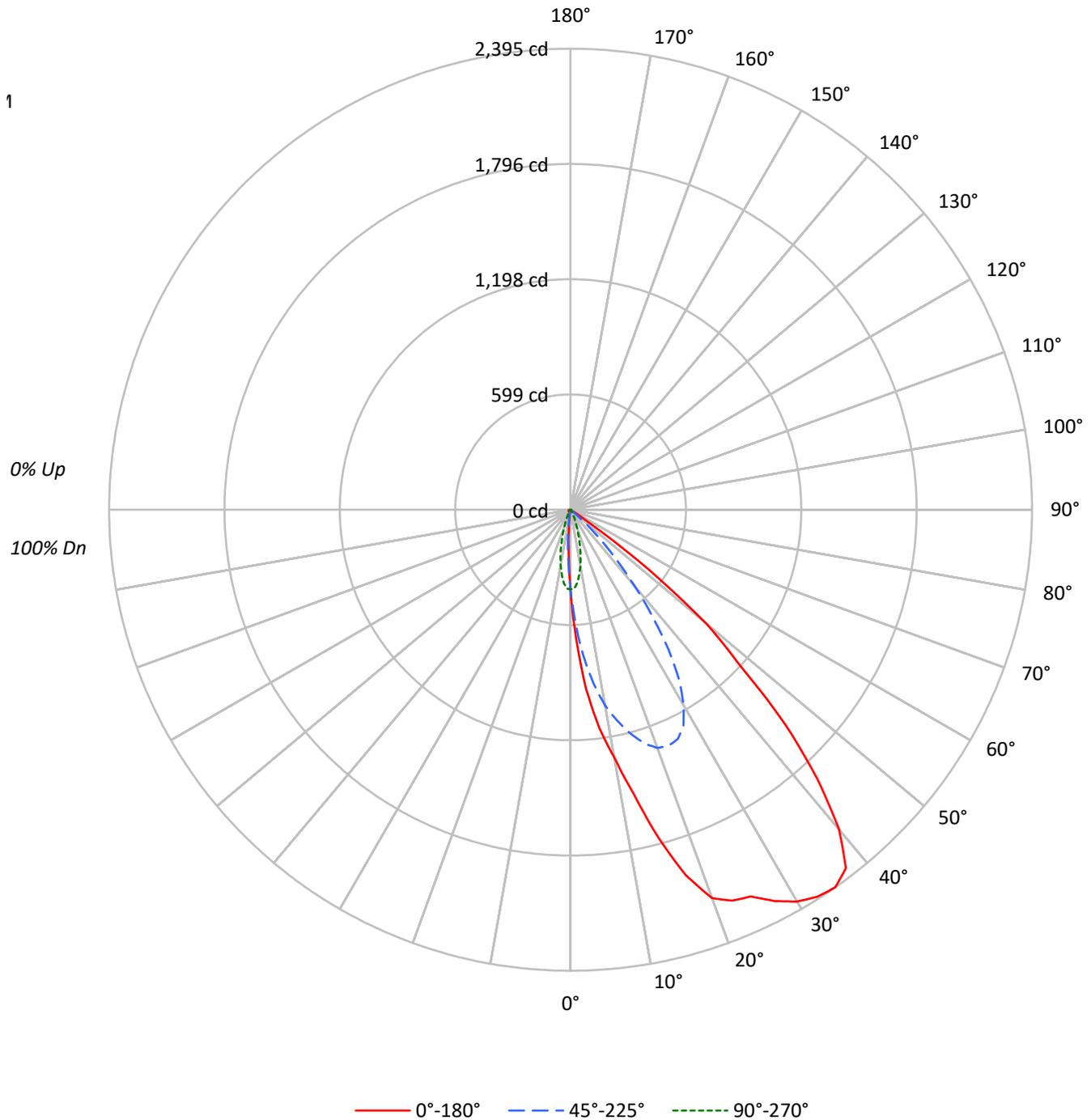
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1085.0 lumens  
Efficiency: N/A  
Efficacy: 74.3 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): 14.6  
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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	71111	71111	71111	71111	71111
5°	162041	131458	66507	26675	18204
10°	228340	180581	51415	5876	2693
15°	314678	214849	32842	1943	1623
20°	393474	241301	17136	1338	1338
25°	421080	249847	7924	1026	1216
30°	467374	233329	3599	1074	1273
35°	503453	186004	1135	1135	1535
40°	487164	115266	607	1439	1844
45°	382559	54363	658	1778	2216
50°	245800	6323	965	2197	2920
55°	37322	540	1081	2732	3543
60°	620	620	1240	3134	3754
65°	734	734	1467	3342	4442
70°	906	906	1813	3676	5035
75°	599	1198	2396	4259	5456
80°	893	1785	2678	4463	6347
85°	0	1778	3557	5335	5335

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 382559 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	4.2
10°-20°	163.4	15.1
20°-30°	287.0	26.5
30°-40°	325.9	30.0
40°-50°	211.0	19.4
50°-60°	41.4	3.8
60°-70°	5.0	0.5
70°-80°	4.2	0.4
80°-90°	1.9	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°	495.5	45.7
0°-40°	821.4	75.7
0°-60°	1073.9	99.0
0°-90°	1085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	413	413	413	413	413	
5°	937	760	385	154	105	100
15°	1765	1205	184	11	9	508
25°	2216	1315	42	5	6	1039
35°	2395	885	5	5	7	1472
45°	1571	223	3	7	9	1184
55°	124	2	4	9	12	237
65°	2	2	4	8	11	2
75°	1	2	4	6	8	1
85°	0	1	2	3	3	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°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
2.5°	670.6	668.7	671.5	653.3	652.4	638.8	635.2	619.8	598.9	588.9	565.3
5°	937.3	928.3	928.3	906.5	899.2	883.8	857.5	824.8	797.6	760.4	720.5
7.5°	1143.3	1141.5	1141.5	1122.4	1104.3	1082.5	1047.1	1009.9	966.4	909.2	851.1
10°	1305.7	1308.5	1300.3	1283.1	1256.7	1233.1	1191.4	1146.0	1092.5	1032.6	955.5
12.5°	1510.8	1490.8	1484.5	1445.5	1411.9	1366.5	1316.6	1264.9	1198.7	1123.4	1036.2
15°	1764.9	1739.5	1714.1	1662.3	1606.1	1536.2	1458.2	1382.0	1296.7	1205.0	1096.1
17.5°	1991.7	1991.7	1958.2	1876.5	1803.9	1700.5	1595.2	1493.6	1392.8	1272.2	1136.1
20°	2146.9	2138.7	2113.3	2053.4	1970.9	1853.8	1716.8	1574.3	1452.7	1316.6	1158.7
22.5°	2197.7	2195.9	2196.8	2161.4	2095.2	1973.6	1805.7	1637.8	1485.4	1327.5	1147.9
25°	2215.9	2219.5	2228.6	2214.9	2165.0	2043.5	1860.2	1667.8	1495.4	1314.8	1106.1
27.5°	2291.2	2283.9	2293.9	2284.8	2228.6	2083.4	1871.0	1660.5	1473.6	1268.5	1031.7
30°	2350.2	2348.3	2365.6	2357.4	2283.9	2108.8	1861.1	1633.3	1420.1	1173.3	914.7
32.5°	2383.7	2384.6	2389.2	2355.6	2246.7	2053.4	1812.1	1578.0	1319.4	1048.9	762.2
35°	2394.6	2389.2	2363.8	2281.2	2132.4	1925.5	1691.4	1446.4	1182.3	884.7	602.5
37.5°	2347.4	2319.3	2254.0	2130.6	1958.2	1764.9	1537.1	1280.3	994.5	698.7	449.2
40°	2166.9	2129.7	2047.1	1921.0	1760.3	1573.4	1340.2	1071.6	771.3	512.7	315.8
42.5°	1896.5	1877.4	1791.2	1681.4	1545.3	1356.6	1116.1	843.9	570.8	353.9	201.4
45°	1570.7	1546.2	1491.8	1394.7	1287.6	1089.8	865.7	604.3	389.3	223.2	99.8
47.5°	1177.8	1179.6	1142.4	1068.9	963.7	798.5	592.5	405.6	244.1	115.2	22.7
50°	917.4	904.7	852.0	776.7	654.2	531.7	382.9	255.9	128.8	23.6	1.8
52.5°	508.1	516.3	488.2	463.7	400.2	317.6	225.9	129.8	27.2	2.7	1.8
55°	124.3	131.6	126.1	128.8	133.4	118.9	91.6	25.4	2.7	1.8	1.8
57.5°	2.7	2.7	2.7	2.7	4.5	6.4	6.4	1.8	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
2.5°	553.5	536.3	504.5	410.1	329.4	265.9	227.8	224.1
5°	685.1	638.8	571.7	384.7	243.2	154.3	111.6	105.3
7.5°	789.4	724.1	620.7	343.0	166.1	78.9	43.6	36.3
10°	875.6	783.1	646.1	294.0	104.4	33.6	18.1	15.4
12.5°	934.6	823.0	650.6	239.6	59.9	16.3	11.8	10.9
15°	972.7	835.7	628.8	184.2	33.6	10.9	10.0	9.1
17.5°	988.2	824.8	587.1	133.4	18.1	8.2	8.2	8.2
20°	980.9	789.4	525.4	93.5	11.8	7.3	7.3	7.3
22.5°	946.4	728.6	448.3	62.6	8.2	6.4	6.4	6.4
25°	878.4	646.1	366.6	41.7	5.4	5.4	6.4	6.4
27.5°	776.7	544.4	280.4	28.1	4.5	5.4	6.4	6.4
30°	648.8	431.0	201.4	18.1	4.5	5.4	5.4	6.4
32.5°	515.4	314.0	132.5	10.9	3.6	5.4	6.4	7.3
35°	373.8	214.1	84.4	5.4	4.5	5.4	6.4	7.3
37.5°	262.2	139.7	49.0	3.6	4.5	5.4	7.3	7.3
40°	170.6	78.0	18.1	2.7	4.5	6.4	7.3	8.2
42.5°	88.9	27.2	3.6	2.7	4.5	6.4	8.2	9.1
45°	22.7	3.6	0.9	2.7	5.4	7.3	9.1	9.1
47.5°	2.7	0.9	0.9	3.6	5.4	8.2	9.1	10.0
50°	0.9	1.8	1.8	3.6	5.4	8.2	10.0	10.9
52.5°	1.8	1.8	1.8	3.6	6.4	8.2	10.9	11.8
55°	1.8	1.8	1.8	3.6	6.4	9.1	10.9	11.8
57.5°	1.8	1.8	1.8	3.6	6.4	9.1	10.9	10.9
60°	1.8	1.8	1.8	3.6	6.4	9.1	10.9	10.9
62.5°	1.8	1.8	2.7	3.6	6.4	8.2	10.9	10.9
65°	1.8	2.7	2.7	3.6	6.4	8.2	10.0	10.9
67.5°	1.8	1.8	2.7	3.6	6.4	8.2	10.0	10.9
70°	1.8	1.8	2.7	3.6	5.4	7.3	9.1	10.0
72.5°	1.8	1.8	2.7	3.6	5.4	7.3	8.2	9.1
75°	1.8	1.8	2.7	3.6	4.5	6.4	8.2	8.2
77.5°	1.8	1.8	2.7	2.7	4.5	5.4	7.3	7.3
80°	1.8	1.8	2.7	2.7	3.6	4.5	5.4	6.4
82.5°	1.8	1.8	1.8	2.7	2.7	3.6	4.5	4.5
85°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)