

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: P1320145

Luminaire Tested: LDSQA3D13R459840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320145  
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: LDSQA3D13R459840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

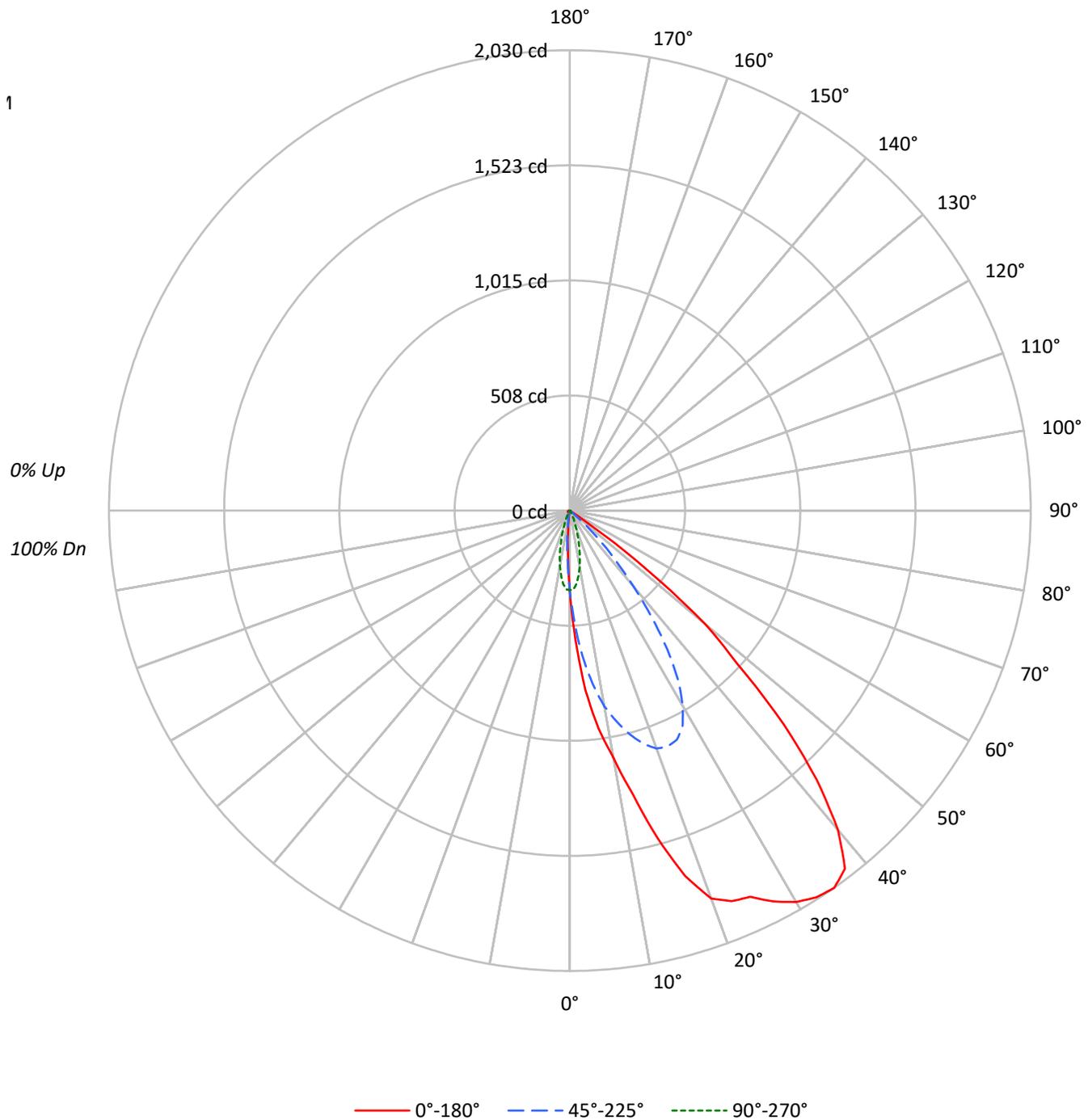
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 920.0 lumens  
Efficiency: N/A  
Efficacy: 63.4 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): 14.5  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	60295	60295	60295	60295	60295
5°	137405	111473	56394	22613	15438
10°	193627	153124	43597	4984	2291
15°	266823	182185	27850	1640	1373
20°	333635	204609	14515	1136	1136
25°	357041	211861	6727	874	1026
30°	396299	197831	3063	915	1074
35°	426903	157726	967	967	1304
40°	413063	97730	517	1214	1551
45°	324373	46106	560	1510	1875
50°	208423	5359	831	1849	2465
55°	31648	450	931	2312	3003
60°	517	517	1068	2652	3169
65°	611	611	1263	2812	3749
70°	755	755	1561	3122	4280
75°	532	998	2063	3593	4591
80°	793	1488	2281	3769	5356
85°	0	1581	2964	4545	4545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 324373 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	4.2
10°-20°	138.5	15.1
20°-30°	243.4	26.5
30°-40°	276.3	30.0
40°-50°	178.9	19.5
50°-60°	35.1	3.8
60°-70°	4.3	0.5
70°-80°	3.5	0.4
80°-90°	1.6	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°	420.2	45.7
0°-40°	696.5	75.7
0°-60°	910.6	99.0
0°-90°	920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	350	350	350	350	350	
5°	795	645	326	131	89	85
15°	1496	1022	156	9	8	431
25°	1879	1115	35	5	5	881
35°	2030	750	5	5	6	1248
45°	1332	189	2	6	8	1004
55°	105	2	3	8	10	201
65°	2	2	3	7	9	1
75°	1	2	3	5	7	1
85°	0	1	2	2	2	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°	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1
2.5°	568.6	567.1	569.4	554.0	553.2	541.7	538.6	525.5	507.8	499.3	479.3
5°	794.8	787.1	787.1	768.6	762.5	749.4	727.1	699.4	676.3	644.8	610.9
7.5°	969.4	967.9	967.9	951.8	936.4	917.9	887.9	856.3	819.4	770.9	721.7
10°	1107.2	1109.5	1102.6	1087.9	1065.6	1045.6	1010.2	971.8	926.4	875.6	810.2
12.5°	1281.1	1264.1	1258.7	1225.7	1197.2	1158.7	1116.4	1072.5	1016.4	952.5	878.7
15°	1496.5	1474.9	1453.4	1409.5	1361.8	1302.6	1236.4	1171.8	1099.5	1021.8	929.4
17.5°	1688.8	1688.8	1660.4	1591.1	1529.6	1441.9	1352.6	1266.4	1181.0	1078.7	963.3
20°	1820.4	1813.5	1791.9	1741.2	1671.1	1571.9	1455.7	1334.9	1231.8	1116.4	982.5
22.5°	1863.5	1862.0	1862.7	1832.7	1776.6	1673.5	1531.1	1388.8	1259.5	1125.6	973.3
25°	1878.9	1882.0	1889.7	1878.1	1835.8	1732.7	1577.3	1414.2	1268.0	1114.9	937.9
27.5°	1942.7	1936.6	1945.1	1937.4	1889.7	1766.5	1586.5	1408.0	1249.5	1075.6	874.8
30°	1992.8	1991.2	2005.8	1998.9	1936.6	1788.1	1578.0	1384.9	1204.1	994.8	775.6
32.5°	2021.2	2022.0	2025.8	1997.4	1905.0	1741.2	1536.5	1338.0	1118.7	889.4	646.3
35°	2030.5	2025.8	2004.3	1934.3	1808.1	1632.7	1434.2	1226.4	1002.5	750.2	510.9
37.5°	1990.4	1966.6	1911.2	1806.6	1660.4	1496.5	1303.4	1085.6	843.3	592.4	380.9
40°	1837.3	1805.8	1735.8	1628.8	1492.6	1334.1	1136.4	908.7	654.0	434.7	267.8
42.5°	1608.1	1591.9	1518.8	1425.7	1310.3	1150.3	946.4	715.5	484.0	300.1	170.8
45°	1331.8	1311.1	1264.9	1182.6	1091.8	924.1	734.0	512.4	330.1	189.3	84.6
47.5°	998.7	1000.2	968.7	906.4	817.1	677.1	502.4	343.9	207.0	97.7	19.2
50°	777.9	767.1	722.5	658.6	554.7	450.9	324.7	217.0	109.3	20.0	1.5
52.5°	430.9	437.8	413.9	393.2	339.3	269.3	191.6	110.0	23.1	2.3	1.5
55°	105.4	111.6	106.9	109.3	113.1	100.8	77.7	21.5	2.3	1.5	1.5
57.5°	2.3	2.3	2.3	2.3	3.8	5.4	5.4	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1
2.5°	469.3	454.7	427.8	347.8	279.3	225.4	193.1	190.0
5°	580.9	541.7	484.7	326.2	206.2	130.8	94.6	89.3
7.5°	669.4	614.0	526.3	290.8	140.8	66.9	36.9	30.8
10°	742.5	664.0	547.8	249.3	88.5	28.5	15.4	13.1
12.5°	792.5	697.8	551.7	203.1	50.8	13.8	10.0	9.2
15°	824.8	708.6	533.2	156.2	28.5	9.2	8.5	7.7
17.5°	837.9	699.4	497.8	113.1	15.4	6.9	6.9	6.9
20°	831.7	669.4	445.5	79.2	10.0	6.2	6.2	6.2
22.5°	802.5	617.8	380.1	53.1	6.9	5.4	5.4	5.4
25°	744.8	547.8	310.8	35.4	4.6	4.6	5.4	5.4
27.5°	658.6	461.6	237.7	23.9	3.8	4.6	5.4	5.4
30°	550.1	365.5	170.8	15.4	3.8	4.6	4.6	5.4
32.5°	437.0	266.2	112.3	9.2	3.1	4.6	5.4	6.2
35°	317.0	181.6	71.6	4.6	3.8	4.6	5.4	6.2
37.5°	222.4	118.5	41.5	3.1	3.8	4.6	6.2	6.2
40°	144.6	66.2	15.4	2.3	3.8	5.4	6.2	6.9
42.5°	75.4	23.1	3.1	2.3	3.8	5.4	6.9	7.7
45°	19.2	3.1	0.8	2.3	4.6	6.2	7.7	7.7
47.5°	2.3	0.8	0.8	3.1	4.6	6.9	7.7	8.5
50°	0.8	1.5	1.5	3.1	4.6	6.9	8.5	9.2
52.5°	1.5	1.5	1.5	3.1	5.4	6.9	9.2	10.0
55°	1.5	1.5	1.5	3.1	5.4	7.7	9.2	10.0
57.5°	1.5	1.5	1.5	3.1	5.4	7.7	9.2	9.2
60°	1.5	1.5	1.5	3.1	5.4	7.7	9.2	9.2
62.5°	1.5	1.5	2.3	3.1	5.4	6.9	9.2	9.2
65°	1.5	2.3	2.3	3.1	5.4	6.9	8.5	9.2
67.5°	1.5	1.5	2.3	3.1	5.4	6.9	8.5	9.2
70°	1.5	1.5	2.3	3.1	4.6	6.2	7.7	8.5
72.5°	1.5	1.5	2.3	3.1	4.6	6.2	6.9	7.7
75°	1.5	1.5	2.3	3.1	3.8	5.4	6.9	6.9
77.5°	1.5	1.5	2.3	2.3	3.8	4.6	6.2	6.2
80°	1.5	1.5	2.3	2.3	3.1	3.8	4.6	5.4
82.5°	1.5	1.5	1.5	2.3	2.3	3.1	3.8	3.8
85°	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3
87.5°	0.8	1.5	1.5	1.5	1.5	1.5	1.5	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)