

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: P1313520

Luminaire Tested: LDSQA3D09R359727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R359727DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

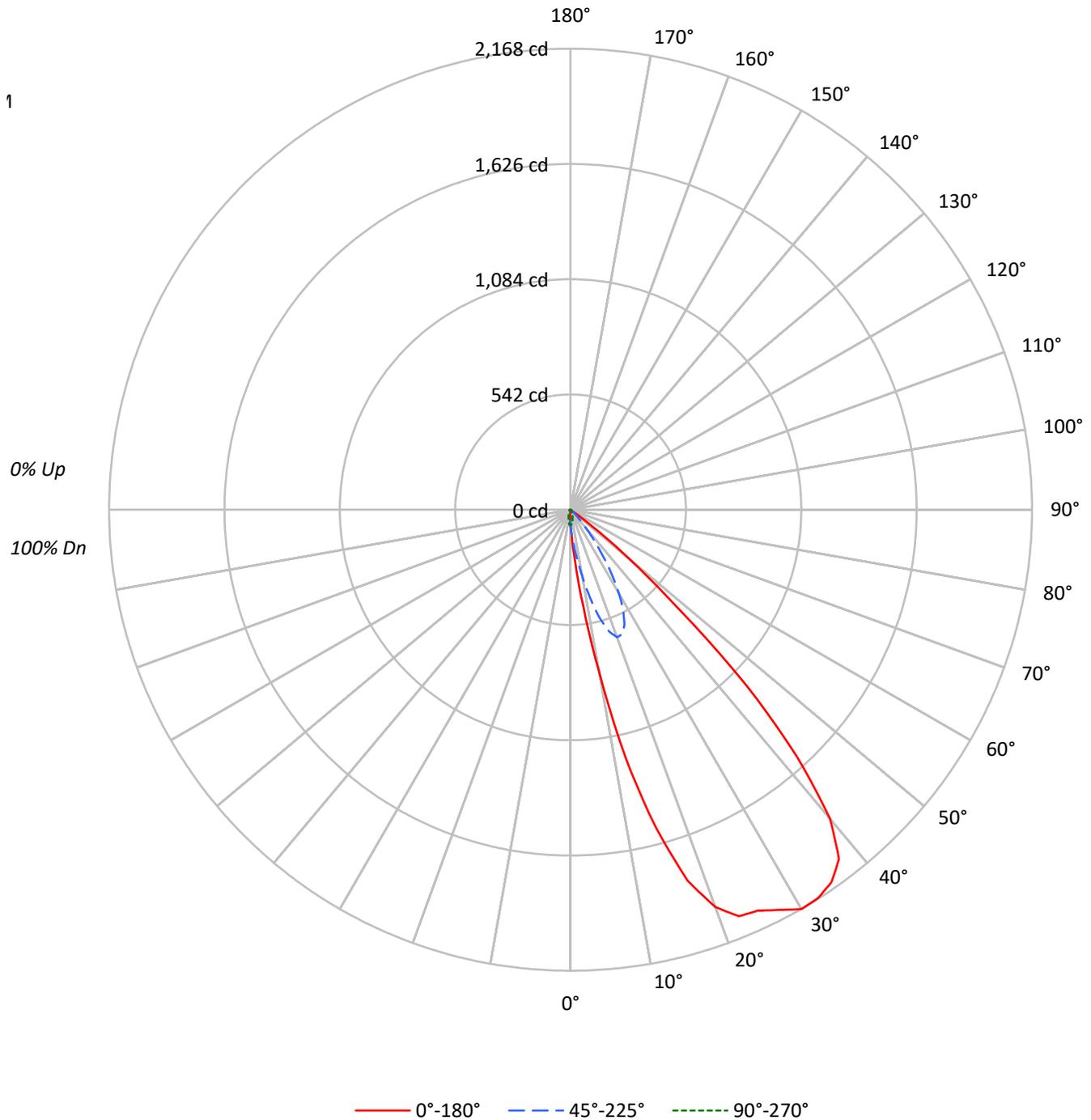
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 681.9 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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	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	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	82	79	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	76	72	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	70	66	62	61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52	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	46	42	51	46	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	12331	12331	12331	12331	12331
5°	42010	27298	11531	4875	3596
10°	135217	55349	9094	1819	1172
15°	275506	93874	6437	660	428
20°	364315	116911	4160	220	220
25°	395312	113655	2318	114	228
30°	431220	90583	974	119	239
35°	449336	56367	252	126	252
40°	426395	24640	135	270	405
45°	284648	9840	146	438	755
50°	95464	1634	322	643	991
55°	5345	180	360	931	1291
60°	413	207	620	1068	1481
65°	489	245	734	1263	1752
70°	302	302	906	1561	1863
75°	399	399	1198	1597	2063
80°	0	595	1785	1785	1785
85°	0	1186	3557	1186	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 284648 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.4	1.8
10°-20°	97.9	14.4
20°-30°	206.7	30.3
30°-40°	234.6	34.4
40°-50°	115.4	16.9
50°-60°	10.0	1.5
60°-70°	2.0	0.3
70°-80°	1.9	0.3
80°-90°	0.9	0.1
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°	317.1	46.5
0°-40°	551.7	80.9
0°-60°	677.1	99.3
0°-90°	681.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	243	158	67	28	21	40
15°	1545	526	36	4	2	439
25°	2080	598	12	1	1	968
35°	2137	268	1	1	1	1317
45°	1169	40	1	2	3	864
55°	18	1	1	3	4	70
65°	1	1	2	3	4	1
75°	1	1	2	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
2.5°	124.3	127.3	126.1	125.5	124.9	122.4	116.9	116.3	110.8	107.1	88.8
5°	243.0	238.1	239.4	232.6	224.1	211.8	203.9	186.7	172.6	157.9	103.5
7.5°	457.9	451.2	438.3	418.7	398.5	372.2	332.4	300.6	263.9	229.0	115.1
10°	773.2	769.5	753.0	702.8	658.7	588.3	522.2	452.4	383.9	316.5	123.1
12.5°	1194.4	1169.3	1139.3	1072.6	985.7	897.5	767.1	646.5	536.9	424.3	123.7
15°	1545.2	1529.3	1487.0	1400.1	1295.4	1168.1	1013.2	851.0	685.7	526.5	117.5
17.5°	1827.4	1802.9	1748.5	1663.4	1542.8	1377.5	1196.3	998.5	797.1	599.3	107.1
20°	1987.8	1975.0	1933.3	1848.3	1716.6	1536.0	1329.7	1099.5	866.9	637.9	93.7
22.5°	2068.6	2059.5	2028.9	1960.9	1837.8	1656.0	1419.7	1152.2	887.1	633.6	79.6
25°	2080.3	2077.8	2051.5	2000.1	1897.2	1717.2	1458.9	1162.0	870.6	598.1	66.1
27.5°	2120.7	2112.1	2080.9	2029.5	1926.0	1727.6	1445.4	1128.3	817.3	535.7	55.1
30°	2168.4	2162.3	2131.1	2077.8	1955.4	1717.9	1397.7	1053.6	732.2	455.5	41.0
32.5°	2164.8	2162.3	2136.0	2079.7	1934.6	1660.3	1312.6	941.6	616.5	359.4	25.7
35°	2137.2	2128.6	2095.6	2008.6	1815.8	1512.1	1150.9	789.7	487.9	268.1	16.5
37.5°	2071.1	2052.7	1997.0	1849.5	1603.4	1283.8	937.3	609.8	345.3	179.4	10.4
40°	1896.6	1873.4	1761.3	1583.2	1325.4	1011.4	697.3	419.4	227.7	109.6	4.3
42.5°	1573.4	1526.2	1414.2	1231.1	989.3	715.1	457.9	271.8	134.1	66.1	1.2
45°	1168.7	1132.6	1015.0	849.1	648.3	458.5	277.3	146.9	74.1	40.4	0.6
47.5°	680.8	658.7	598.1	489.2	358.1	240.6	142.0	79.0	43.5	19.6	0.6
50°	356.3	328.8	282.8	214.3	157.9	110.8	69.2	42.2	21.4	6.1	0.6
52.5°	124.9	123.1	112.0	84.5	68.6	49.6	33.7	18.4	6.1	1.2	0.6
55°	17.8	17.8	16.5	18.4	19.6	17.8	11.6	4.9	1.2	0.6	0.6
57.5°	1.2	1.2	1.2	1.8	2.4	2.4	1.8	0.6	0.6	0.6	1.2
60°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
62.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
65°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8
77.5°	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	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):**

	90°	112.5°	135°	157.5°	180°
0°	71.6	71.6	71.6	71.6	71.6
2.5°	71.0	56.9	45.3	39.8	38.0
5°	66.7	42.9	28.2	22.0	20.8
7.5°	59.4	30.6	17.1	12.2	11.6
10°	52.0	22.0	10.4	7.3	6.7
12.5°	43.5	15.3	6.7	4.3	3.7
15°	36.1	10.4	3.7	3.1	2.4
17.5°	28.8	6.7	2.4	1.8	2.4
20°	22.7	4.3	1.2	1.2	1.2
22.5°	17.1	2.4	1.2	1.2	1.2
25°	12.2	1.2	0.6	0.6	1.2
27.5°	8.6	0.6	0.6	0.6	1.2
30°	4.9	0.6	0.6	0.6	1.2
32.5°	2.4	0.6	0.6	1.2	1.2
35°	1.2	0.6	0.6	1.2	1.2
37.5°	0.6	0.6	0.6	1.2	1.8
40°	0.6	0.6	1.2	1.8	1.8
42.5°	0.6	0.6	1.2	1.8	2.4
45°	0.6	1.2	1.8	2.4	3.1
47.5°	1.2	1.2	2.4	3.1	3.7
50°	1.2	1.8	2.4	3.7	3.7
52.5°	1.2	1.8	3.1	3.7	4.3
55°	1.2	2.4	3.1	4.3	4.3
57.5°	1.8	2.4	3.1	4.3	4.3
60°	1.8	2.4	3.1	4.3	4.3
62.5°	1.8	2.4	3.1	4.3	4.3
65°	1.8	2.4	3.1	4.3	4.3
67.5°	1.8	2.4	3.1	3.7	4.3
70°	1.8	2.4	3.1	3.7	3.7
72.5°	2.4	2.4	3.1	3.7	3.7
75°	1.8	2.4	2.4	3.1	3.1
77.5°	1.8	1.8	1.8	2.4	2.4
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.2	1.2	1.8	1.8
85°	1.8	1.2	0.6	1.2	1.2
87.5°	1.2	1.2	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)