

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: P1316987

Luminaire Tested: LDSQA3D02R159827DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

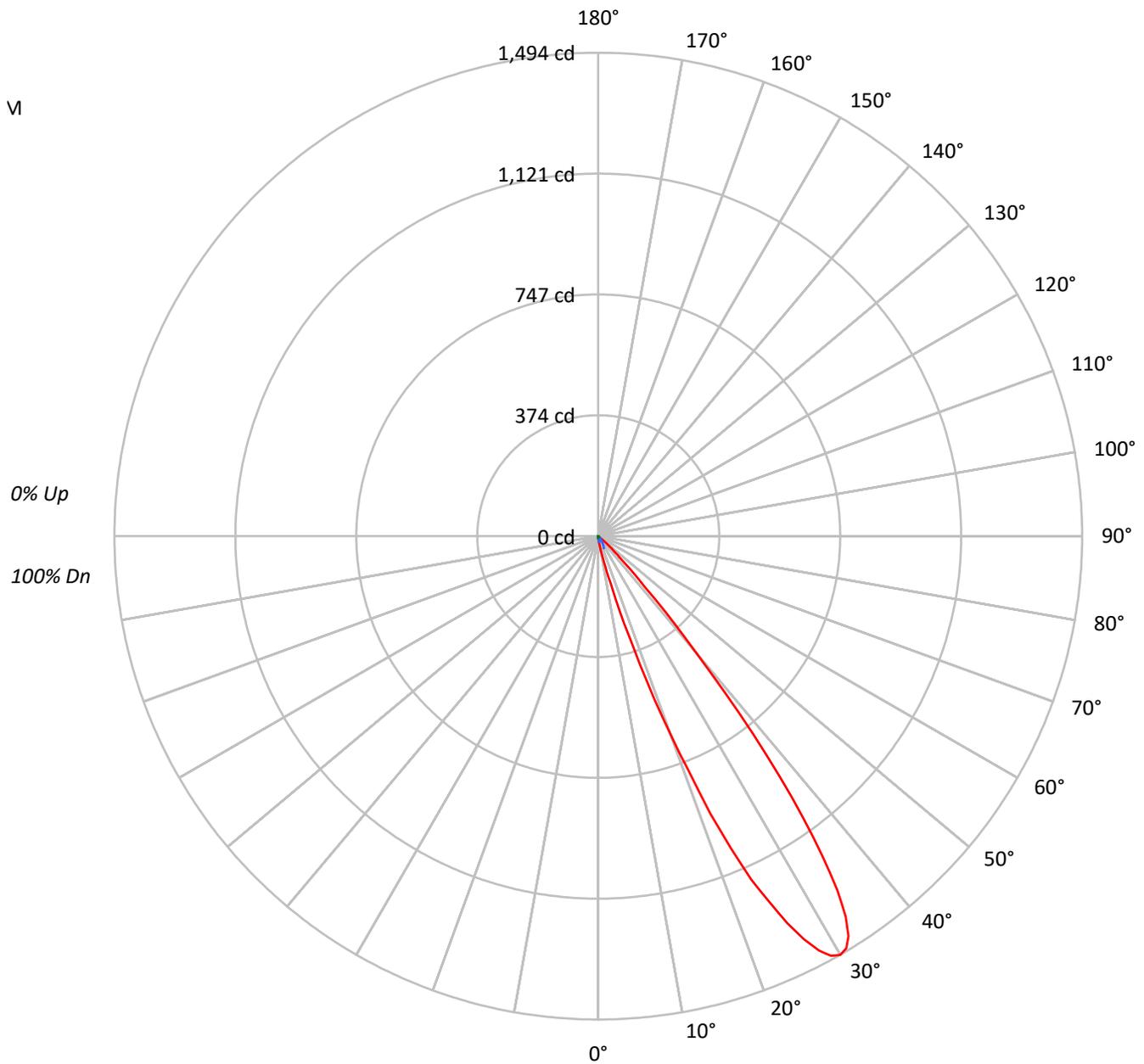
Test Method: LM-79-2019  
Report Number: P1316987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R159827DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 158.0 lumens  
Efficiency: N/A  
Efficacy: 43.9 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.6  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	964	964	964	964	964
5°	2818	2126	830	346	225
10°	7327	3165	560	0	0
15°	29277	5188	303	0	0
20°	119587	7643	92	0	0
25°	236374	7582	0	0	0
30°	297105	5986	0	0	0
35°	253492	3658	0	0	0
40°	104362	1169	0	0	0
45°	22578	487	0	0	0
50°	2894	0	0	0	0
55°	240	0	60	0	0
60°	0	0	103	0	0
65°	0	0	122	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 23625 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	11.1	7.0
20°-30°	64.5	40.8
30°-40°	69.2	43.8
40°-50°	11.7	7.4
50°-60°	0.4	0.2
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.1	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
<b>0°-30°</b>	<b>76.4</b>	<b>48.3</b>
<b>0°-40°</b>	<b>145.6</b>	<b>92.1</b>
<b>0°-60°</b>	<b>157.6</b>	<b>99.7</b>
<b>0°-90°</b>	<b>158.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>158.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	16	12	5	2	1	2
15°	164	29	2	0	0	76
25°	1244	40	0	0	0	563
35°	1206	17	0	0	0	693
45°	93	2	0	0	0	110
55°	1	0	0	0	0	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	10.3	10.5	10.6	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.3
5°	16.3	16.3	16.3	16.3	16.3	16.3	16.1	16.1	16.1	16.1	16.1
7.5°	23.3	22.9	23.1	22.6	22.9	22.8	22.6	22.9	22.9	22.1	22.1
10°	41.9	41.7	40.0	40.4	40.7	40.5	40.5	39.5	39.4	38.7	38.0
12.5°	80.7	82.6	83.9	83.9	80.7	81.9	79.7	80.2	80.6	79.6	76.1
15°	164.2	167.1	164.0	167.0	165.8	161.5	156.7	150.2	152.7	148.2	146.7
17.5°	359.5	366.4	363.5	349.7	354.2	343.6	336.9	334.5	327.5	306.7	298.1
20°	652.5	660.8	653.0	636.8	642.0	621.9	616.7	611.9	581.0	569.7	533.5
21°	775.7	782.5	785.5	768.8	758.5	742.5	729.2	724.9	706.1	684.4	647.1
22°	924.6	916.6	898.7	901.0	885.7	872.6	854.2	836.7	815.8	785.4	754.6
23°	1047.9	1038.6	1030.1	1019.8	1003.4	994.0	967.6	948.5	921.3	888.7	859.1
24°	1162.7	1148.4	1143.1	1124.8	1120.2	1099.2	1077.8	1052.9	1020.0	985.2	952.5
25°	1243.9	1246.1	1241.4	1239.3	1215.5	1194.1	1172.8	1134.4	1106.4	1075.6	1025.3
26°	1331.0	1332.0	1329.7	1313.7	1292.3	1271.3	1243.9	1210.5	1169.8	1135.8	1090.2
27°	1397.6	1393.6	1390.3	1371.4	1353.8	1327.3	1302.4	1262.9	1223.2	1182.6	1129.8
28°	1450.8	1443.3	1439.2	1422.9	1402.3	1369.9	1339.3	1302.4	1262.7	1219.2	1162.0
29°	1482.8	1474.9	1470.2	1452.3	1428.5	1400.1	1369.2	1328.7	1286.0	1237.5	1180.0
30°	1494.0	1489.3	1482.0	1463.4	1438.8	1409.2	1377.5	1333.5	1288.8	1239.1	1178.3
31°	1486.7	1480.7	1473.7	1453.6	1427.0	1398.8	1361.9	1315.7	1268.7	1221.3	1156.9
32°	1457.6	1453.9	1445.5	1418.6	1397.0	1360.4	1324.0	1280.8	1229.5	1178.6	1120.3
33°	1403.1	1397.1	1389.8	1365.2	1337.6	1302.6	1266.4	1222.2	1171.2	1117.5	1053.4
34°	1320.0	1312.4	1303.2	1286.8	1251.6	1221.2	1179.3	1127.6	1085.4	1033.9	975.9
35°	1205.7	1194.6	1183.6	1171.2	1131.6	1103.5	1075.3	1030.3	989.6	941.0	875.4
36°	1077.5	1073.1	1064.2	1031.3	1018.5	980.3	957.5	905.8	872.9	825.4	771.2
37°	932.4	907.0	919.9	901.5	863.0	851.0	823.9	779.6	744.0	693.8	654.6
38°	776.9	760.3	769.4	750.8	730.7	703.1	682.5	650.1	610.3	570.9	533.7
39°	615.7	602.3	612.2	599.6	569.0	557.6	539.3	514.6	482.5	451.7	416.5
40°	464.2	446.9	460.2	442.3	428.3	409.5	400.2	377.5	357.5	339.1	316.7
42.5°	212.0	210.2	207.2	200.7	199.2	199.4	187.9	180.4	170.3	158.5	151.4
45°	92.7	95.0	97.0	93.4	93.2	91.2	90.5	85.6	83.6	79.7	75.1
47.5°	45.7	46.5	46.0	47.0	46.2	44.9	44.5	43.9	41.9	41.7	39.5
50°	10.8	10.6	10.6	10.8	10.6	10.6	10.5	10.1	10.0	10.1	9.6
52.5°	3.5	3.7	3.5	3.3	3.5	3.7	3.5	3.5	3.5	3.5	3.5
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	10.1	8.6	7.1	5.6	4.2	3.3	3.2	3.0
5°	15.3	12.3	8.1	4.8	2.8	2.0	1.5	1.3
7.5°	20.6	15.3	9.0	4.0	2.0	0.8	0.3	0.2
10°	29.6	18.1	9.3	3.2	1.0	0.0	0.0	0.0
12.5°	58.0	20.8	9.1	2.5	0.2	0.0	0.0	0.0
15°	96.4	29.1	8.5	1.7	0.0	0.0	0.0	0.0
17.5°	157.8	37.5	7.3	1.2	0.0	0.0	0.0	0.0
20°	244.7	41.7	5.6	0.5	0.0	0.0	0.0	0.0
21°	286.9	42.0	5.0	0.3	0.0	0.0	0.0	0.0
22°	323.5	42.0	4.3	0.2	0.0	0.0	0.0	0.0
23°	357.4	41.5	3.8	0.0	0.0	0.0	0.0	0.0
24°	385.3	40.9	3.5	0.0	0.0	0.0	0.0	0.0
25°	406.2	39.9	3.2	0.0	0.0	0.0	0.0	0.0
26°	415.9	38.5	2.7	0.0	0.0	0.0	0.0	0.0
27°	420.7	36.7	2.3	0.0	0.0	0.0	0.0	0.0
28°	417.4	34.7	2.0	0.0	0.0	0.0	0.0	0.0
29°	409.1	32.6	1.5	0.0	0.0	0.0	0.0	0.0
30°	398.3	30.1	1.2	0.0	0.0	0.0	0.0	0.0
31°	382.5	27.6	0.8	0.0	0.0	0.0	0.0	0.0
32°	360.9	25.1	0.7	0.0	0.0	0.0	0.0	0.0
33°	332.0	22.4	0.3	0.0	0.0	0.0	0.0	0.0
34°	296.2	19.8	0.2	0.0	0.0	0.0	0.0	0.0
35°	256.2	17.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	221.8	15.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	187.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	156.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	129.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	107.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	59.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	36.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	20.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.3	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.3	0.3	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.3	0.5	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)