

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: P1319631

Luminaire Tested: LDSQA3D02R209840DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

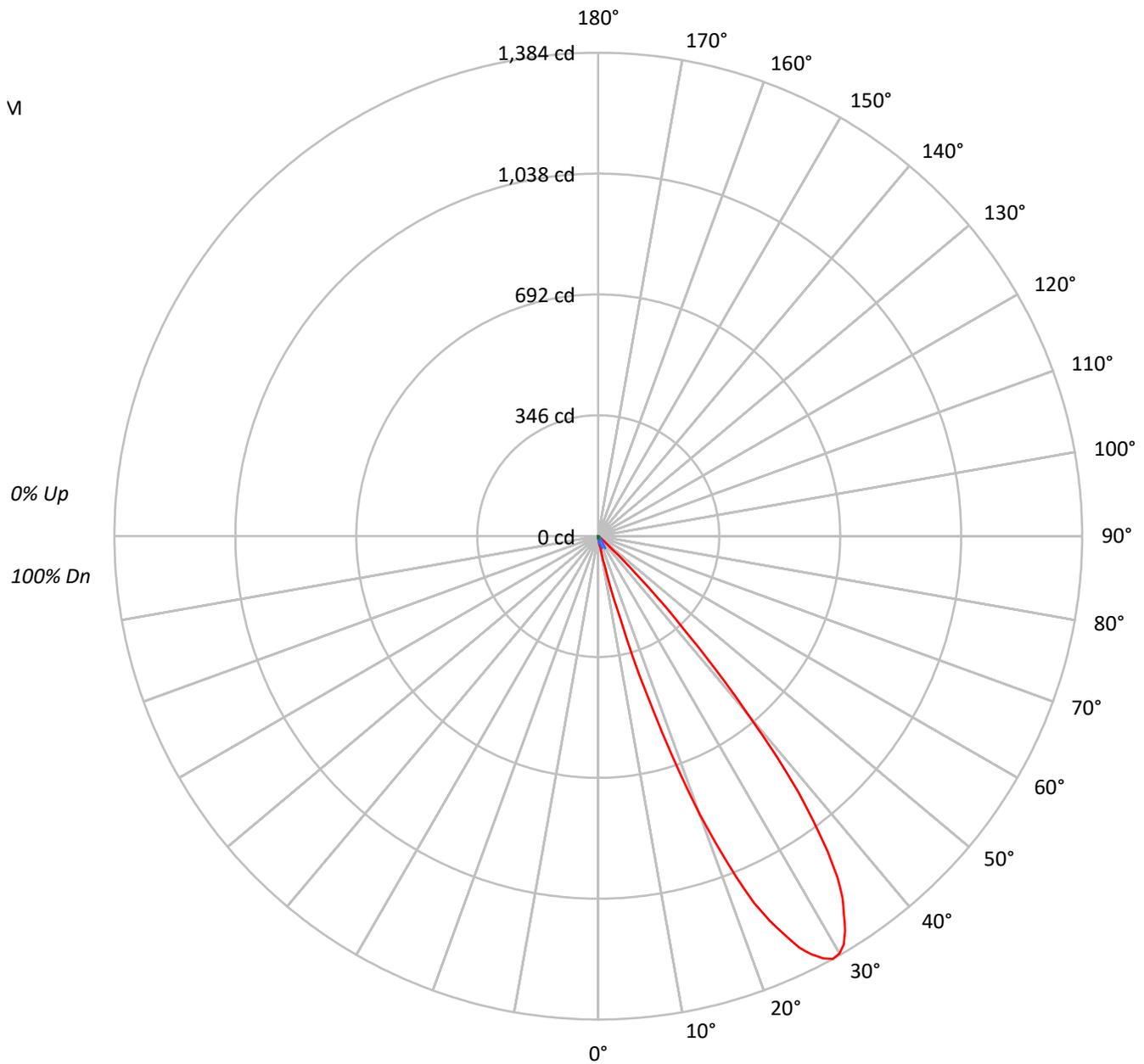
Test Method: LM-79-2019  
Report Number: P1319631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R209840DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 191.0 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12  
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	100			100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75			75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68			68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55			55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45			45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36			36

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

	0°	45°	90°	135°	180°
0°	1171	1171	1171	1171	1171
5°	2559	1798	1089	484	363
10°	6383	3183	769	105	0
15°	44878	4368	446	0	0
20°	155106	7349	165	0	0
25°	239073	9387	76	0	0
30°	274395	7259	0	0	0
35°	250612	2754	0	0	0
40°	150248	1281	0	0	0
45°	36924	609	0	0	0
50°	4073	161	0	0	0
55°	570	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	302	0	0
75°	0	133	399	0	0
80°	0	198	595	0	0
85°	0	395	1186	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 1°  
 Vertical Angle: 45°  
 Luminance: 39384 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	14.9	7.8
20°-30°	75.5	39.5
30°-40°	81.6	42.7
40°-50°	17.2	9.0
50°-60°	0.5	0.3
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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>91.1</b>	<b>47.7</b>
<b>0°-40°</b>	<b>172.8</b>	<b>90.4</b>
<b>0°-60°</b>	<b>190.5</b>	<b>99.7</b>
<b>0°-90°</b>	<b>191.0</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>191.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	15	10	6	3	2	2
15°	252	24	2	0	0	105
25°	1258	49	0	0	0	569
35°	1192	13	0	0	0	703
45°	152	2	0	0	0	167
55°	2	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
2.5°	9.3	9.1	9.3	9.1	9.3	9.3	9.3	9.1	9.1	9.1	9.1
5°	14.8	14.8	14.6	14.8	14.8	14.8	14.8	14.6	14.6	14.4	14.4
7.5°	23.4	23.4	23.2	23.2	23.4	23.6	22.8	23.2	23.2	23.2	23.0
10°	36.5	37.2	36.5	37.4	36.7	36.1	37.0	36.1	36.1	35.9	35.3
12.5°	91.9	89.8	88.5	85.3	88.5	86.1	86.6	86.1	84.2	81.7	80.2
15°	251.7	251.7	244.3	254.2	246.9	249.6	235.9	236.1	229.1	221.5	217.3
17.5°	526.2	530.9	526.0	522.9	516.5	507.2	503.4	493.7	481.0	466.2	464.4
20°	846.3	826.3	835.6	827.1	821.8	810.4	797.6	789.6	778.4	759.6	731.9
21°	946.9	946.2	946.0	945.8	938.0	919.4	907.8	891.8	876.1	856.7	833.5
22°	1048.4	1052.0	1053.5	1042.5	1026.5	1018.2	1010.2	988.3	963.5	953.4	925.8
23°	1141.4	1138.0	1128.1	1123.0	1110.7	1108.2	1084.5	1070.6	1046.3	1035.3	1002.6
24°	1204.9	1203.2	1198.6	1191.0	1181.1	1166.0	1151.7	1129.9	1109.9	1091.9	1061.5
25°	1258.1	1259.6	1251.2	1246.1	1235.5	1218.4	1200.9	1177.0	1158.4	1137.3	1102.1
26°	1310.7	1300.1	1293.4	1285.8	1274.2	1254.7	1237.8	1216.3	1193.7	1170.1	1135.7
27°	1343.2	1333.7	1323.6	1316.2	1302.9	1284.3	1266.2	1242.5	1217.2	1193.5	1158.2
28°	1368.8	1358.4	1348.5	1339.6	1324.4	1304.4	1282.8	1258.6	1232.4	1207.9	1171.8
29°	1384.0	1371.7	1361.0	1351.0	1337.1	1315.4	1293.6	1267.8	1242.5	1216.9	1180.0
30°	1379.8	1369.2	1358.9	1348.7	1334.6	1314.3	1292.7	1268.0	1242.5	1217.2	1179.8
31°	1363.5	1350.4	1343.0	1332.7	1320.6	1299.9	1281.3	1254.3	1231.3	1203.9	1166.5
32°	1332.2	1323.8	1313.9	1305.9	1294.2	1272.1	1253.9	1231.9	1204.7	1182.3	1143.0
33°	1289.6	1281.8	1276.9	1267.6	1256.2	1241.0	1219.1	1199.0	1168.4	1145.4	1106.1
34°	1249.0	1239.1	1226.7	1224.1	1214.2	1194.6	1174.9	1154.4	1127.0	1097.8	1058.1
35°	1192.0	1181.7	1170.3	1171.3	1159.5	1136.7	1116.6	1093.6	1067.6	1033.2	995.6
36°	1115.8	1109.0	1107.3	1102.7	1089.2	1062.0	1042.9	1014.0	992.1	950.2	917.9
37°	1022.9	1025.4	1013.0	1007.1	991.4	972.4	961.6	924.5	899.1	867.5	823.8
38°	929.1	925.5	910.8	914.4	892.8	873.0	842.5	820.4	791.9	762.7	727.7
39°	811.9	802.9	785.5	786.2	769.9	747.7	718.0	692.0	674.9	646.8	613.4
40°	668.3	664.5	658.4	648.3	626.9	617.2	590.8	562.7	548.2	509.3	492.9
42.5°	370.8	365.7	355.4	351.8	340.4	329.0	313.6	294.8	285.7	274.1	248.3
45°	151.6	161.7	159.2	156.3	147.6	148.2	137.1	138.5	128.4	121.6	116.8
47.5°	33.4	36.3	36.5	35.1	36.5	35.3	34.8	33.8	34.0	34.6	33.2
50°	15.2	15.0	15.4	15.2	15.0	14.8	14.6	14.1	14.4	14.1	13.7
52.5°	5.9	6.1	6.1	5.7	5.9	5.9	5.9	5.7	5.7	5.7	5.7
55°	1.9	1.9	1.9	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.7
57.5°	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.4
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°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
2.5°	8.7	8.0	7.4	6.8	5.7	4.7	4.4	4.4
5°	13.5	10.4	7.8	6.3	4.4	2.8	2.3	2.1
7.5°	20.3	14.1	8.2	5.3	2.8	1.5	0.9	0.8
10°	29.4	18.2	8.5	4.4	1.7	0.6	0.0	0.0
12.5°	51.5	21.8	8.5	3.4	0.8	0.0	0.0	0.0
15°	118.0	24.5	8.2	2.5	0.2	0.0	0.0	0.0
17.5°	245.0	30.8	7.2	1.7	0.0	0.0	0.0	0.0
20°	391.3	40.1	5.7	0.9	0.0	0.0	0.0	0.0
21°	451.5	43.3	5.1	0.8	0.0	0.0	0.0	0.0
22°	494.8	46.3	4.6	0.6	0.0	0.0	0.0	0.0
23°	542.5	48.2	4.0	0.4	0.0	0.0	0.0	0.0
24°	577.7	49.4	3.4	0.4	0.0	0.0	0.0	0.0
25°	599.5	49.4	3.0	0.4	0.0	0.0	0.0	0.0
26°	612.4	48.2	2.7	0.2	0.0	0.0	0.0	0.0
27°	615.5	46.3	2.3	0.2	0.0	0.0	0.0	0.0
28°	611.7	43.9	1.9	0.0	0.0	0.0	0.0	0.0
29°	599.7	40.3	1.7	0.0	0.0	0.0	0.0	0.0
30°	586.8	36.5	1.3	0.0	0.0	0.0	0.0	0.0
31°	564.7	31.3	1.1	0.0	0.0	0.0	0.0	0.0
32°	539.3	26.0	0.9	0.0	0.0	0.0	0.0	0.0
33°	505.3	20.5	0.8	0.0	0.0	0.0	0.0	0.0
34°	455.1	16.1	0.8	0.0	0.0	0.0	0.0	0.0
35°	410.1	13.1	0.6	0.0	0.0	0.0	0.0	0.0
36°	351.2	10.4	0.6	0.0	0.0	0.0	0.0	0.0
37°	300.9	8.7	0.6	0.0	0.0	0.0	0.0	0.0
38°	251.9	7.4	0.4	0.0	0.0	0.0	0.0	0.0
39°	204.4	6.5	0.4	0.0	0.0	0.0	0.0	0.0
40°	163.0	5.7	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	87.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	48.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	21.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	7.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.6	0.2	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°
82.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.6	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)