

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: P1318400

Luminaire Tested: LDSQA3D13R509830DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

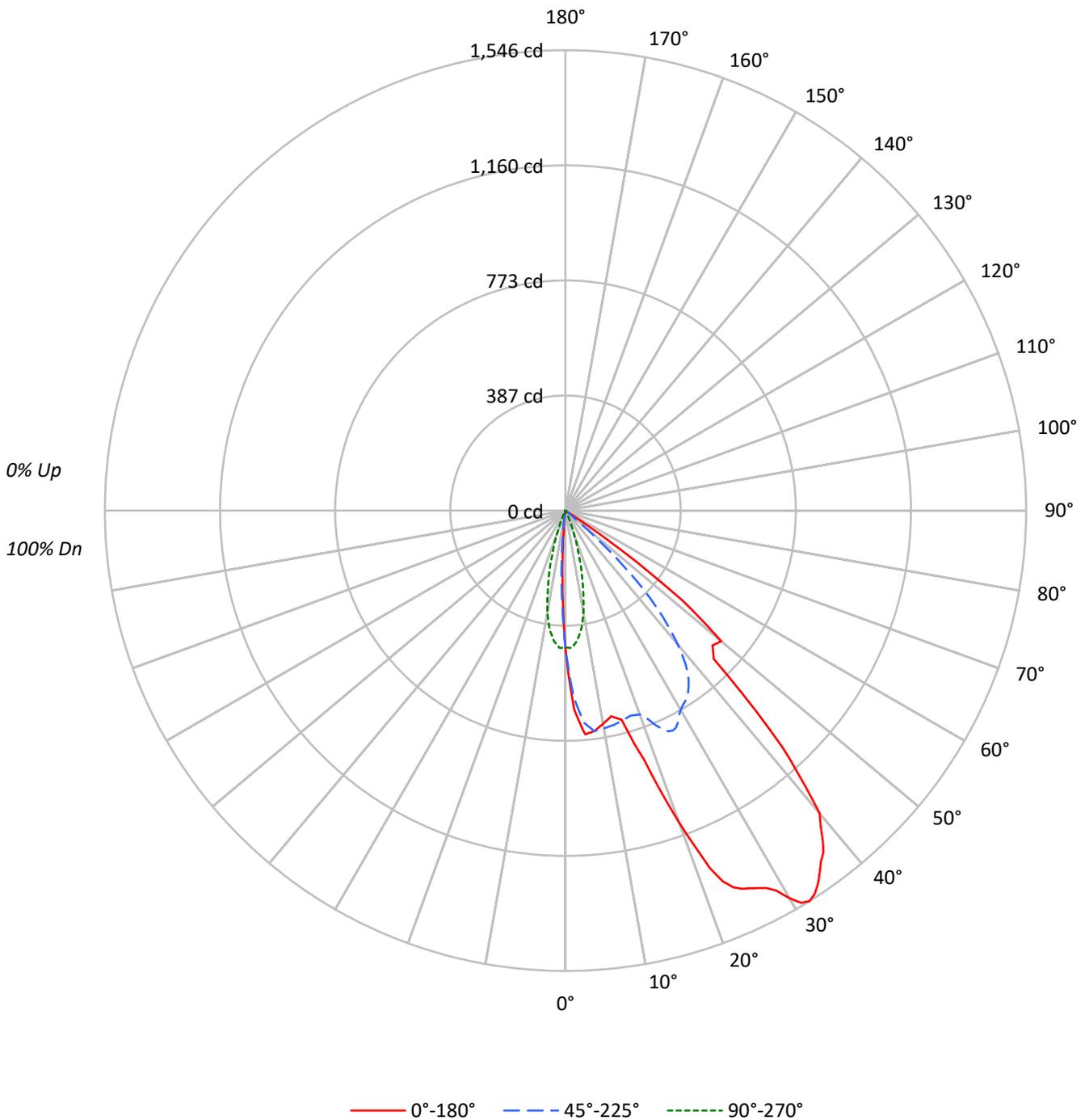
Test Method: LM-79-2019  
Report Number: P1318400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509830DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 740.0 lumens  
Efficiency: N/A  
Efficacy: 51.0 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
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 (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	94	91	88	91	88	86	89	86	84	82	82	82	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	74	74	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	54	54	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	79136	79136	79136	79136	79136
5°	130369	123731	76050	22595	11289
10°	127067	129848	60928	1137	1521
15°	129551	130318	36498	1159	392
20°	204206	133425	15029	0	0
25°	266208	155442	3592	0	0
30°	298796	153723	139	0	0
35°	312676	151376	0	0	0
40°	298292	131520	0	0	0
45°	171295	86805	0	0	0
50°	182809	9913	0	0	0
55°	52095	0	0	0	0
60°	0	0	241	0	0
65°	0	285	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	1488	694	0
85°	0	1383	2964	1383	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 189148 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	5.2
10°-20°	97.2	13.1
20°-30°	186.7	25.2
30°-40°	217.3	29.4
40°-50°	155.6	21.0
50°-60°	43.3	5.9
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	322.5	43.6
0°-40°	539.9	73.0
0°-60°	738.7	99.8
0°-90°	740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	460	460	460	460	460	
5°	754	716	440	131	65	69
15°	727	731	205	6	2	234
25°	1401	818	19	0	0	637
35°	1487	720	0	0	0	920
45°	703	356	0	0	0	661
55°	174	0	0	0	0	218
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	459.5	459.5	459.5	459.5	459.5	459.5	459.5	459.5	459.5	459.5	459.5
2.5°	667.8	671.4	672.1	663.4	664.9	652.5	653.3	644.5	623.5	550.2	461.6
5°	754.1	752.0	754.1	751.2	754.1	746.9	742.5	738.9	715.7	611.9	439.9
7.5°	746.2	743.3	747.6	749.1	754.1	752.0	752.7	754.9	746.9	645.3	402.8
10°	726.6	725.8	728.0	728.0	733.8	734.5	737.4	741.8	742.5	656.9	348.4
12.5°	707.7	705.5	705.5	704.8	707.7	707.0	714.2	724.4	738.2	649.6	273.6
15°	726.6	724.4	721.5	713.5	707.7	701.2	701.9	708.4	730.9	630.7	204.7
17.5°	879.0	867.4	852.9	827.5	800.6	754.1	726.6	709.1	722.2	601.7	136.5
20°	1114.2	1109.1	1085.8	1044.5	1000.9	932.7	847.8	779.5	728.0	565.4	82.0
21°	1203.4	1200.5	1175.9	1137.4	1088.0	1005.3	918.2	836.2	739.6	550.2	64.6
22°	1294.9	1284.0	1264.4	1221.6	1170.0	1087.3	990.0	899.3	762.9	530.6	49.4
23°	1353.7	1347.1	1326.1	1292.0	1242.6	1162.1	1062.6	963.9	785.4	508.8	37.0
24°	1384.2	1382.0	1365.3	1341.3	1299.2	1217.2	1122.9	1021.2	804.2	483.4	26.9
25°	1400.9	1393.6	1383.4	1366.0	1334.1	1263.0	1178.8	1071.3	818.0	458.0	18.9
26°	1411.0	1406.7	1390.7	1375.5	1345.0	1286.9	1215.0	1101.8	821.6	426.8	13.1
27°	1422.6	1412.5	1397.2	1379.1	1345.0	1294.2	1228.8	1114.9	817.3	394.9	8.7
28°	1435.0	1427.7	1406.7	1383.4	1342.8	1294.2	1223.8	1097.5	804.2	364.4	5.1
29°	1458.9	1449.5	1423.4	1389.2	1343.5	1292.7	1204.2	1061.2	786.8	330.3	2.9
30°	1502.5	1482.9	1450.9	1403.0	1348.6	1289.8	1171.5	1006.7	773.0	291.8	0.7
31°	1536.6	1525.7	1488.7	1428.4	1363.1	1281.8	1133.0	953.0	763.6	258.4	0.0
32°	1546.0	1538.0	1511.2	1454.6	1387.8	1275.3	1089.5	900.8	756.3	221.4	0.0
33°	1535.1	1530.1	1501.7	1450.2	1394.3	1266.6	1039.4	849.2	748.3	188.0	0.0
34°	1514.8	1508.3	1483.6	1431.3	1377.6	1228.8	991.5	810.0	736.7	156.8	0.0
35°	1487.2	1482.2	1456.7	1405.2	1347.1	1170.0	943.6	783.9	720.0	125.6	0.0
36°	1457.5	1456.0	1423.4	1372.6	1308.0	1113.4	885.5	764.3	703.3	99.4	0.0
37°	1437.9	1430.6	1395.1	1345.0	1261.5	1047.4	839.1	757.8	680.1	76.9	0.0
38°	1402.3	1403.8	1363.1	1317.4	1214.3	990.0	801.3	752.7	654.0	55.9	0.0
39°	1360.2	1360.9	1318.8	1279.6	1158.4	929.8	770.1	747.6	621.3	35.6	0.0
40°	1326.8	1326.1	1278.2	1236.1	1098.2	873.2	753.4	740.4	585.0	20.3	0.0
42.5°	1078.6	1082.9	1088.8	1106.2	956.6	773.7	737.4	699.7	482.0	0.0	0.0
45°	703.3	720.0	724.4	776.6	775.9	733.1	699.7	627.1	356.4	0.0	0.0
47.5°	669.2	674.3	683.7	704.1	714.9	693.9	625.7	524.1	194.5	0.0	0.0
50°	682.3	681.6	683.7	683.7	664.1	609.7	513.2	386.9	37.0	0.0	0.0
52.5°	489.9	508.1	527.7	536.4	511.0	453.6	374.5	227.2	0.0	0.0	0.0
55°	173.5	167.7	163.3	178.6	174.9	196.7	162.6	53.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.9	6.5	8.7	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	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5
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):**

	112.5°	135°	157.5°	180°
0°	459.5	459.5	459.5	459.5
2.5°	368.0	282.3	228.6	232.3
5°	258.4	130.7	80.6	65.3
7.5°	154.6	39.9	8.0	6.5
10°	72.6	6.5	7.3	8.7
12.5°	21.8	5.8	8.0	7.3
15°	5.8	6.5	3.6	2.2
17.5°	2.2	2.9	0.0	0.0
20°	1.5	0.0	0.0	0.0
21°	1.5	0.0	0.0	0.0
22°	0.7	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.7	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)