

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: P1307211

Luminaire Tested: LDSQA3D13R559024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R559024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

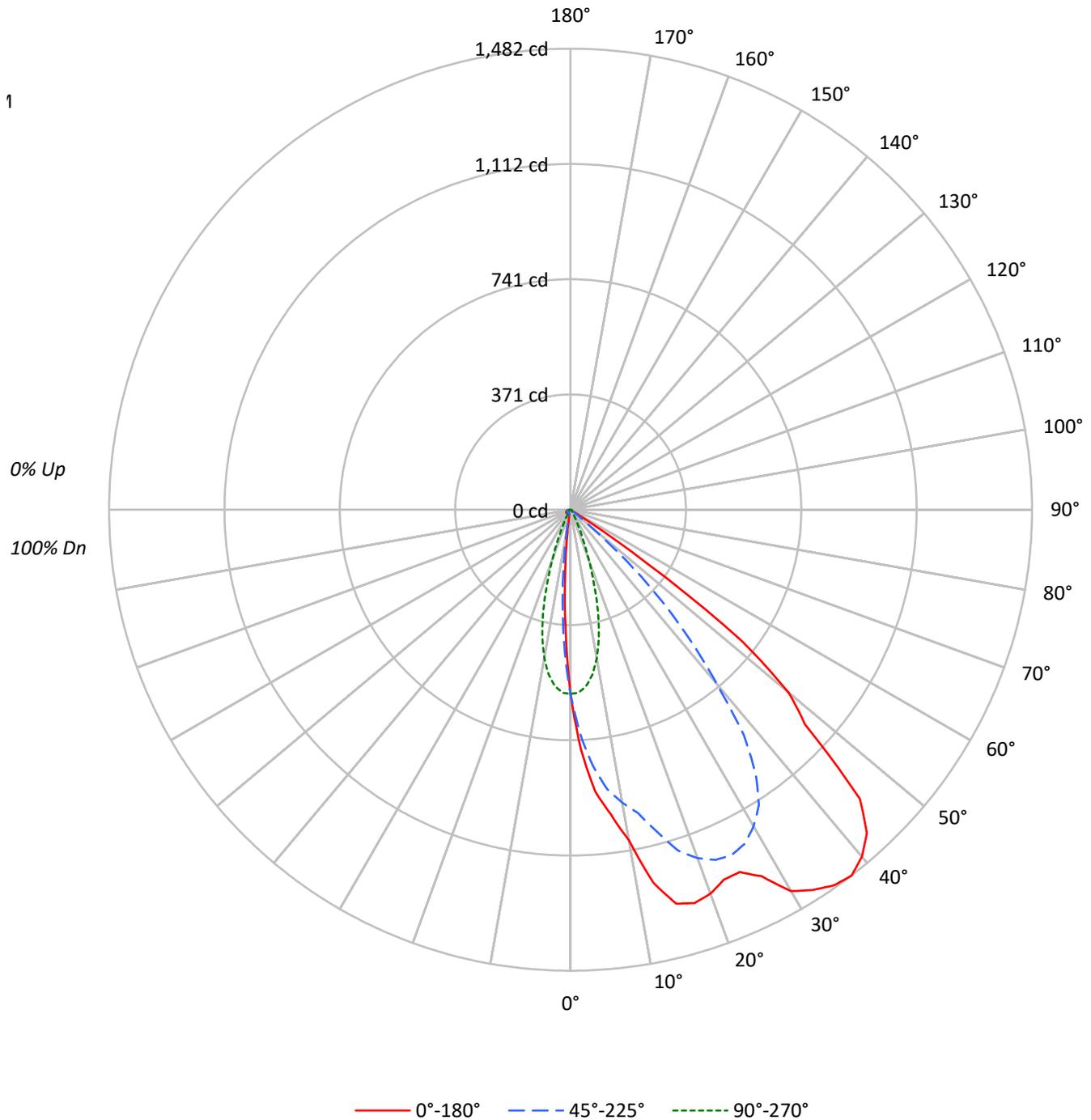
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 987.0 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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





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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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	101887	101887	101887	101887	101887
5°	157114	143024	98421	50550	33193
10°	188765	167167	84712	12749	5106
15°	233731	190921	60532	3512	2746
20°	240732	218409	31267	2364	2364
25°	244222	232650	12542	2109	2451
30°	281494	233747	5449	2207	2565
35°	309859	217919	2334	2334	2880
40°	327294	164029	1349	2698	3080
45°	320110	100225	1242	2923	3751
50°	244862	21354	1366	3456	4367
55°	89838	781	1531	3873	4894
60°	896	896	1757	4443	5614
65°	1060	1060	2078	4523	5950
70°	856	1309	2165	5187	6899
75°	599	1131	2262	5723	7985
80°	893	1686	2579	5951	8529
85°	0	1778	3359	6719	8497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 320110 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.1	5.3
10°-20°	149.1	15.1
20°-30°	228.8	23.2
30°-40°	266.6	27.0
40°-50°	213.0	21.6
50°-60°	63.1	6.4
60°-70°	6.8	0.7
70°-80°	5.3	0.5
80°-90°	2.3	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°	430.0	43.6
0°-40°	696.6	70.6
0°-60°	972.7	98.5
0°-90°	987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	592	592	592	592	592	
5°	909	827	569	292	192	91
15°	1311	1071	340	20	15	362
25°	1285	1224	66	11	13	610
35°	1474	1036	11	11	14	918
45°	1314	412	5	12	15	948
55°	299	3	5	13	16	317
65°	3	3	5	11	15	2
75°	1	2	3	9	12	1
85°	0	1	2	3	4	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°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	771.6	771.6	769.0	769.9	768.2	758.8	757.0	745.0	734.8	723.6	714.2
5°	908.8	910.5	907.9	902.8	895.9	889.1	874.5	863.4	848.8	827.3	807.6
7.5°	986.8	985.1	980.8	979.1	974.8	967.1	956.8	944.8	927.7	906.2	883.1
10°	1079.4	1064.8	1060.5	1053.7	1040.0	1024.5	1006.5	990.2	975.7	955.9	931.1
12.5°	1228.6	1226.0	1208.9	1196.0	1177.1	1142.9	1112.0	1076.0	1033.1	998.8	966.2
15°	1310.9	1312.6	1304.9	1294.6	1282.6	1254.3	1223.4	1181.4	1130.8	1070.8	1017.7
17.5°	1325.5	1328.0	1323.8	1319.5	1316.0	1299.7	1280.9	1250.9	1204.6	1148.9	1070.0
20°	1313.5	1318.6	1319.5	1324.6	1331.5	1324.6	1309.2	1288.6	1250.0	1191.7	1116.3
22.5°	1286.9	1296.3	1303.2	1321.2	1339.2	1339.2	1329.8	1313.5	1275.7	1218.3	1141.1
25°	1285.2	1286.9	1289.5	1318.6	1346.9	1352.9	1344.3	1327.2	1286.0	1224.3	1140.3
27.5°	1328.0	1316.9	1299.7	1328.9	1362.3	1367.5	1355.5	1332.3	1283.5	1210.6	1111.1
30°	1415.5	1390.6	1354.6	1376.1	1399.2	1393.2	1369.2	1332.3	1266.3	1175.4	1056.3
32.5°	1448.9	1435.2	1422.3	1445.5	1449.8	1424.9	1382.1	1327.2	1238.9	1125.7	966.2
35°	1473.8	1474.6	1469.5	1473.8	1453.2	1418.1	1370.9	1298.9	1187.4	1036.5	847.1
37.5°	1482.4	1484.1	1472.9	1457.5	1426.6	1386.3	1329.8	1247.4	1101.7	913.9	667.0
40°	1455.8	1450.6	1432.6	1411.2	1377.8	1336.6	1274.9	1152.3	974.0	729.6	520.4
42.5°	1408.6	1400.1	1378.6	1352.9	1317.8	1265.5	1166.9	1018.5	791.3	569.3	364.4
45°	1314.3	1308.3	1281.7	1262.9	1220.9	1153.1	1026.3	839.3	612.2	411.5	210.9
47.5°	1021.1	1022.0	1042.5	1052.0	1037.4	983.4	834.2	637.9	446.7	245.2	71.2
50°	913.9	909.7	889.1	860.8	813.6	733.0	612.2	451.0	264.1	79.7	10.3
52.5°	693.6	693.6	683.3	668.7	619.0	541.0	414.1	249.5	92.6	13.7	2.6
55°	299.2	283.8	292.4	308.6	295.8	257.2	193.8	74.6	16.3	2.6	2.6
57.5°	4.3	10.3	15.4	24.9	33.4	40.3	21.4	7.7	2.6	2.6	2.6
60°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	1.7	1.7	1.7	2.6	1.7	2.6	2.6	2.6	2.6	2.6	2.6
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	700.5	685.9	661.9	589.0	513.6	444.1	394.4	375.5
5°	785.3	758.8	718.5	569.3	419.2	292.4	220.3	192.0
7.5°	852.2	817.9	759.6	535.0	307.8	156.0	93.5	73.7
10°	896.8	859.1	782.8	484.4	204.1	72.9	35.2	29.2
12.5°	929.4	882.2	791.3	419.2	120.0	33.4	18.9	17.1
15°	953.4	892.5	781.0	339.5	66.0	19.7	15.4	15.4
17.5°	986.8	897.6	756.2	250.3	37.7	14.6	14.6	14.6
20°	1012.5	897.6	709.0	170.6	23.1	12.9	12.9	12.9
22.5°	1025.4	883.9	651.6	108.0	16.3	12.0	12.9	12.9
25°	1012.5	850.5	577.9	66.0	12.9	11.1	12.0	12.9
27.5°	965.4	783.6	479.3	42.0	10.3	11.1	12.0	12.9
30°	886.5	686.7	367.8	27.4	9.4	11.1	12.0	12.9
32.5°	775.0	542.7	238.3	18.0	8.6	11.1	12.0	12.9
35°	605.3	384.1	144.0	11.1	8.6	11.1	12.9	13.7
37.5°	453.5	256.3	78.0	6.9	8.6	11.1	12.9	13.7
40°	314.6	149.2	33.4	6.0	8.6	12.0	13.7	13.7
42.5°	182.6	59.2	8.6	5.1	8.6	12.0	13.7	14.6
45°	66.9	12.0	2.6	5.1	9.4	12.0	13.7	15.4
47.5°	9.4	2.6	2.6	5.1	9.4	12.0	14.6	15.4
50°	2.6	2.6	2.6	5.1	9.4	12.9	15.4	16.3
52.5°	2.6	2.6	2.6	5.1	9.4	12.9	15.4	16.3
55°	2.6	2.6	2.6	5.1	9.4	12.9	15.4	16.3
57.5°	2.6	2.6	2.6	5.1	9.4	12.9	15.4	16.3
60°	2.6	2.6	2.6	5.1	8.6	12.9	15.4	16.3
62.5°	2.6	2.6	2.6	5.1	8.6	12.0	14.6	15.4
65°	2.6	2.6	2.6	5.1	7.7	11.1	14.6	14.6
67.5°	2.6	2.6	2.6	4.3	7.7	11.1	13.7	14.6
70°	2.6	2.6	2.6	4.3	6.9	10.3	12.9	13.7
72.5°	2.6	2.6	2.6	3.4	6.0	9.4	12.0	12.9
75°	1.7	2.6	2.6	3.4	6.0	8.6	11.1	12.0
77.5°	1.7	2.6	2.6	2.6	5.1	6.9	9.4	10.3
80°	1.7	1.7	2.6	2.6	4.3	6.0	7.7	8.6
82.5°	1.7	1.7	1.7	2.6	3.4	4.3	6.0	6.0
85°	1.7	1.7	1.7	1.7	2.6	3.4	4.3	4.3
87.5°	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)