

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: P1307034

Luminaire Tested: LDSQA3D09R509024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R509024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

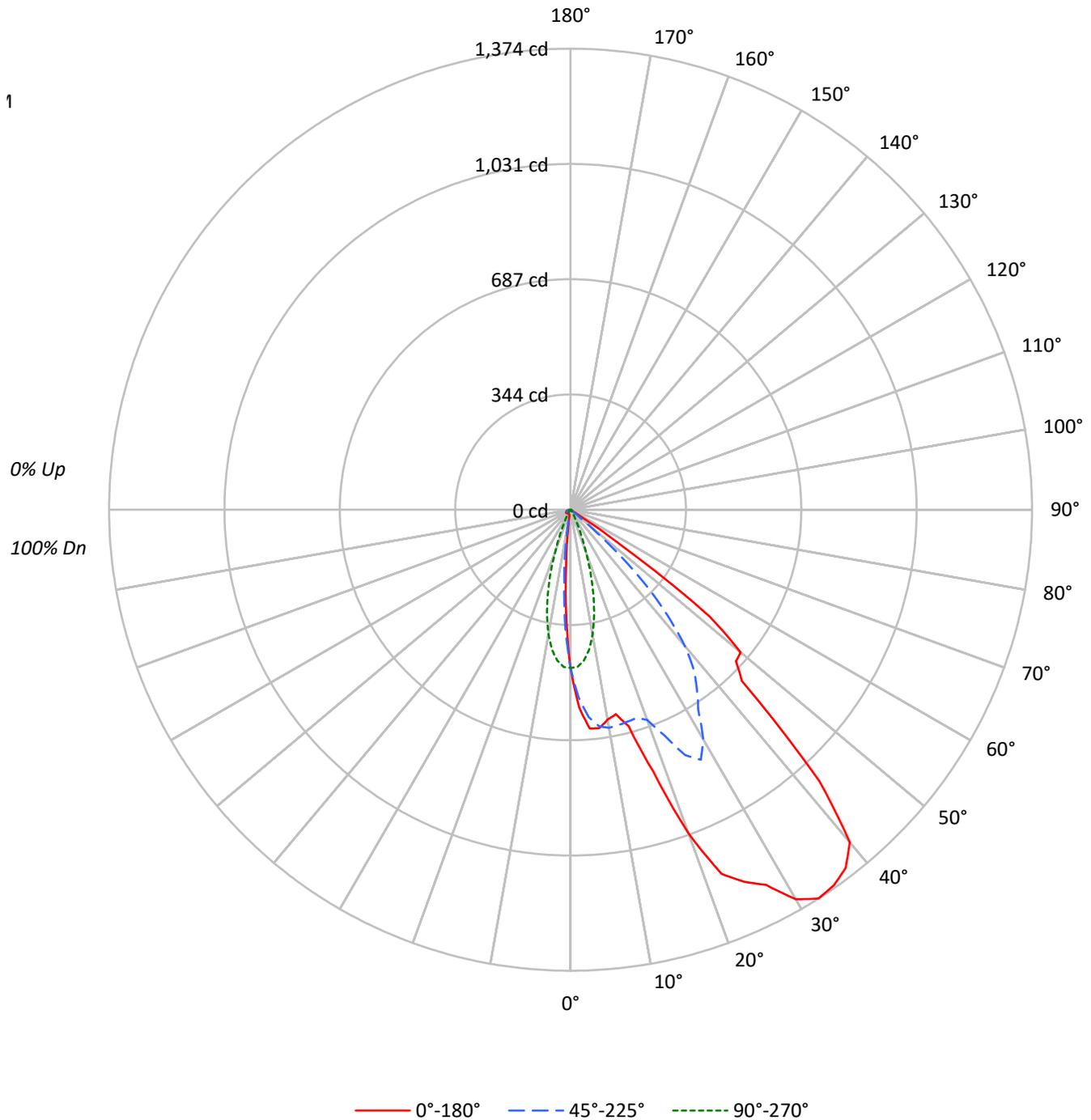
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 733.0 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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 (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				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	101	102	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	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	81169	81169	81169	81169	81169
5°	113168	107359	78004	37498	24324
10°	111083	115385	65930	7905	3393
15°	119139	116589	46625	2764	2639
20°	188114	122098	24614	2364	2493
25°	232460	153333	9805	2204	2451
30°	266520	157263	3977	2188	2565
35°	287321	138026	1766	2313	2859
40°	290851	118863	1304	2608	3192
45°	175777	77038	1267	2825	3605
50°	177129	13316	1393	3296	4153
55°	52335	781	1561	3693	4654
60°	896	896	1550	3996	5098
65°	774	774	1589	4197	5542
70°	957	957	1611	4532	6194
75°	865	865	1730	4724	6455
80°	595	1289	1884	4463	7042
85°	1186	2569	2569	5138	6323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 200791 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.1	5.2
10°-20°	94.6	12.9
20°-30°	177.3	24.2
30°-40°	211.9	28.9
40°-50°	151.9	20.7
50°-60°	46.8	6.4
60°-70°	6.1	0.8
70°-80°	4.4	0.6
80°-90°	1.8	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°	310.0	42.3
0°-40°	521.9	71.2
0°-60°	720.6	98.3
0°-90°	733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	471	471	471	471	471	
5°	655	621	451	217	141	61
15°	668	654	262	16	15	214
25°	1223	807	52	12	13	564
35°	1367	656	8	11	14	848
45°	722	316	5	12	15	663
55°	174	3	5	12	16	224
65°	2	2	4	10	14	2
75°	1	1	3	7	10	1
85°	1	1	1	3	3	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°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3
2.5°	589.4	590.7	592.6	587.5	584.2	581.6	577.1	575.8	564.9	560.3	555.8
5°	654.6	653.3	654.6	652.7	651.4	647.5	643.6	637.2	630.1	621.0	610.7
7.5°	656.5	655.2	657.8	657.8	660.4	660.4	660.4	661.1	657.2	650.7	641.7
10°	635.2	635.2	637.8	636.5	641.0	643.0	647.5	655.2	659.1	659.8	657.2
12.5°	624.3	624.3	624.9	622.3	623.6	625.5	630.7	639.7	648.8	657.8	663.0
15°	668.2	669.4	660.4	647.5	637.8	627.5	624.3	630.1	639.7	653.9	665.6
17.5°	817.3	819.2	809.5	778.5	748.8	706.2	668.2	649.4	639.1	650.7	666.2
20°	1026.4	1019.3	1002.5	969.6	926.4	860.5	801.1	741.1	683.6	666.2	671.4
22.5°	1174.3	1171.7	1158.1	1121.3	1083.9	1022.6	947.0	863.1	779.8	726.9	699.1
25°	1223.3	1221.4	1209.1	1187.2	1166.5	1120.0	1052.3	967.7	880.5	806.9	737.2
27.5°	1260.1	1257.5	1238.2	1213.6	1192.3	1145.2	1083.2	1019.3	939.3	839.9	732.7
30°	1340.2	1333.1	1306.0	1262.1	1221.4	1156.2	1087.8	1008.4	899.9	790.8	686.2
32.5°	1373.7	1369.9	1346.6	1311.1	1266.6	1181.4	1077.4	944.4	801.8	707.5	631.4
35°	1366.6	1360.8	1336.9	1296.3	1242.1	1160.1	1021.3	838.6	722.4	656.5	570.7
37.5°	1345.3	1336.9	1308.5	1260.8	1194.9	1087.8	906.4	752.7	677.8	603.6	488.0
40°	1293.7	1280.1	1247.2	1197.5	1131.7	990.9	801.8	701.1	631.4	528.7	395.7
42.5°	1096.2	1089.1	1105.2	1096.8	1038.7	872.8	727.5	653.9	557.8	427.4	286.6
45°	721.7	734.0	763.0	812.8	824.4	750.8	666.9	576.5	459.0	316.3	165.3
47.5°	668.2	665.6	672.7	682.4	684.3	653.3	577.1	476.4	340.9	180.8	45.8
50°	661.1	657.2	651.4	639.7	615.2	555.2	468.7	347.3	196.9	49.7	3.2
52.5°	522.3	518.4	518.4	501.6	470.0	411.9	323.4	191.1	54.9	3.2	2.6
55°	174.3	185.9	184.0	183.3	197.5	182.0	139.4	49.1	4.5	2.6	2.6
57.5°	3.2	3.2	3.2	5.8	9.0	12.9	7.7	3.9	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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
77.5°	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
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°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3
2.5°	545.5	536.5	519.0	469.3	414.4	351.8	309.2	304.1
5°	594.6	581.0	552.6	451.2	326.0	216.9	161.4	140.7
7.5°	626.8	608.8	573.9	421.5	237.6	114.3	61.3	49.1
10°	646.2	629.4	584.9	377.0	151.1	45.2	20.7	19.4
12.5°	656.5	640.4	588.7	323.4	85.2	20.7	16.1	16.1
15°	663.6	646.2	582.9	261.5	42.6	15.5	14.8	14.8
17.5°	666.9	645.6	566.2	196.9	22.6	14.2	14.2	14.2
20°	668.8	638.5	535.2	134.3	15.5	12.9	13.6	13.6
22.5°	670.7	621.0	494.5	85.2	12.3	12.3	12.9	12.9
25°	666.9	590.7	437.0	51.6	11.0	11.6	12.3	12.9
27.5°	639.1	544.9	367.3	31.6	9.7	11.0	12.3	12.9
30°	591.3	477.7	286.6	20.0	9.0	11.0	12.3	12.9
32.5°	529.4	400.9	204.6	12.3	9.0	11.0	12.3	12.9
35°	446.1	306.6	133.0	8.4	9.0	11.0	12.9	13.6
37.5°	352.5	214.3	71.7	6.5	9.0	11.0	12.9	13.6
40°	253.7	128.5	25.8	5.8	8.4	11.6	13.6	14.2
42.5°	148.5	47.8	4.5	5.2	8.4	11.6	13.6	14.2
45°	42.6	5.2	2.6	5.2	8.4	11.6	14.2	14.8
47.5°	3.2	1.9	2.6	5.2	8.4	11.6	14.2	15.5
50°	1.9	1.9	1.9	5.2	8.4	12.3	14.8	15.5
52.5°	2.6	2.6	2.6	5.2	8.4	12.3	14.8	15.5
55°	2.6	2.6	2.6	5.2	8.4	12.3	14.8	15.5
57.5°	2.6	2.6	2.6	5.2	8.4	11.6	14.8	15.5
60°	2.6	2.6	2.6	4.5	7.7	11.6	14.2	14.8
62.5°	2.6	2.6	2.6	4.5	7.7	11.0	14.2	14.2
65°	2.6	2.6	2.6	3.9	7.1	10.3	12.9	13.6
67.5°	2.6	2.6	2.6	3.9	6.5	9.7	12.3	12.9
70°	1.9	2.6	2.6	3.2	5.8	9.0	11.6	12.3
72.5°	1.9	1.9	2.6	3.2	5.2	7.7	10.3	11.0
75°	1.9	1.9	1.9	2.6	4.5	7.1	9.0	9.7
77.5°	1.9	1.9	1.9	2.6	3.9	5.8	8.4	8.4
80°	1.3	1.9	1.9	1.9	3.2	4.5	6.5	7.1
82.5°	1.3	1.3	1.3	1.9	2.6	3.9	5.2	5.2
85°	1.3	1.3	1.3	1.3	1.9	2.6	3.2	3.2
87.5°	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)