

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: P1316471

Luminaire Tested: LDSQA3D09R509740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316471
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: LDSQA3D09R509740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

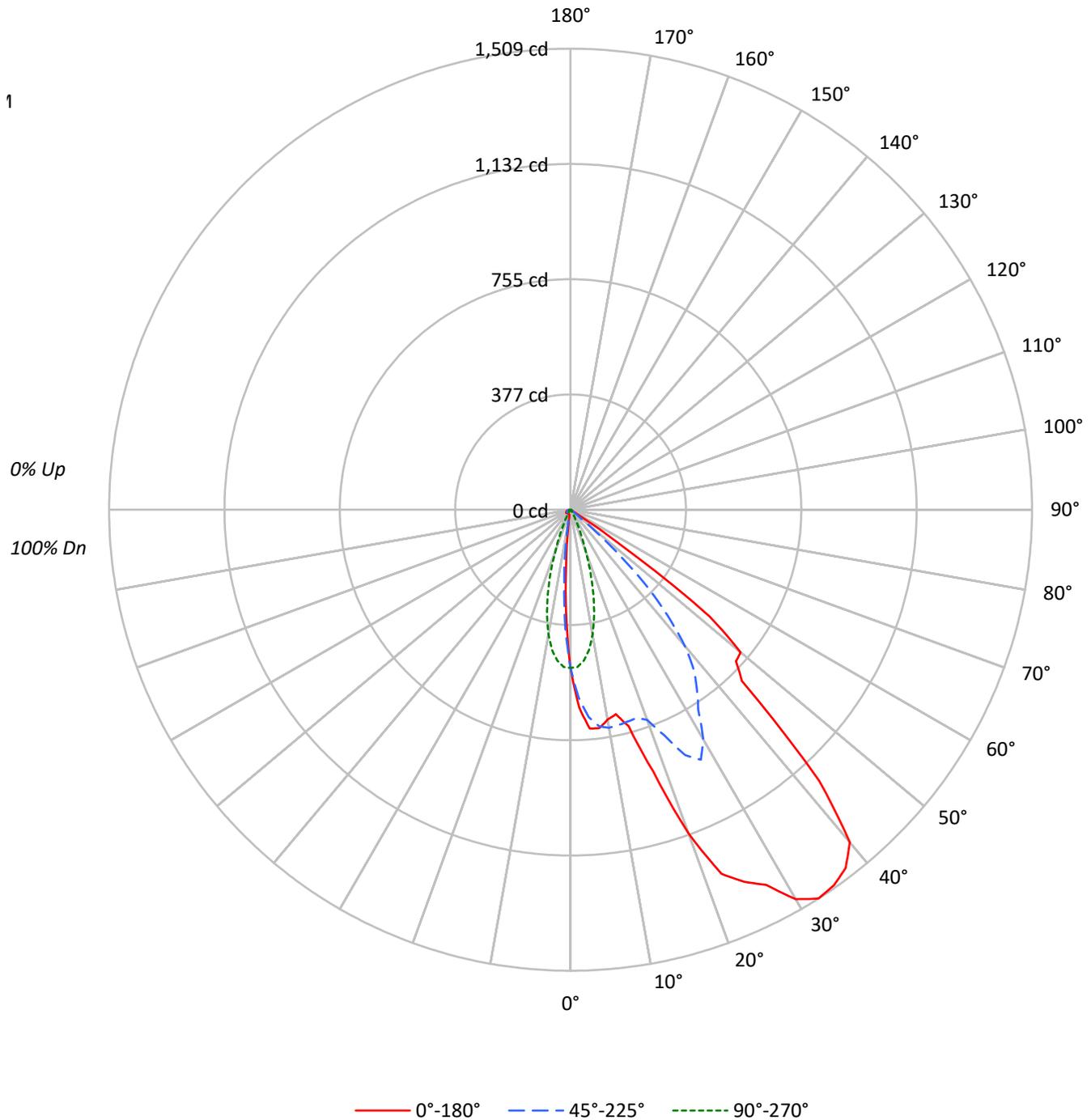
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 805.0 lumens
Efficiency: N/A
Efficacy: 72.5 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				
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°	89125	89125	89125	89125	89125
5°	124284	117905	85680	41180	26727
10°	121996	126718	72400	8674	3725
15°	130835	128054	51189	3031	2906
20°	206606	134103	27033	2603	2731
25°	255301	168402	10775	2432	2698
30°	292690	172715	4375	2406	2824
35°	315557	151587	1934	2544	3133
40°	319425	130531	1439	2878	3507
45°	193045	84613	1388	3118	3970
50°	194518	14629	1527	3617	4555
55°	57470	841	1711	4054	5104
60°	964	964	1722	4409	5614
65°	856	856	1752	4605	6072
70°	1057	1057	1762	4985	6798
75°	932	932	1863	5190	7053
80°	694	1389	2083	4959	7736
85°	1383	2766	2766	5533	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 220519 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	5.2
10°-20°	103.9	12.9
20°-30°	194.7	24.2
30°-40°	232.8	28.9
40°-50°	166.8	20.7
50°-60°	51.4	6.4
60°-70°	6.7	0.8
70°-80°	4.9	0.6
80°-90°	2.0	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°	340.4	42.3
0°-40°	573.2	71.2
0°-60°	791.4	98.3
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	518	518	518	518	518	
5°	719	682	496	238	155	67
15°	734	718	287	17	16	235
25°	1344	886	57	13	14	619
35°	1501	721	9	12	15	931
45°	793	347	6	13	16	728
55°	191	3	6	14	17	246
65°	2	2	4	11	15	2
75°	1	1	3	8	11	1
85°	1	1	1	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°	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5
2.5°	647.3	648.7	650.8	645.2	641.6	638.8	633.8	632.4	620.3	615.4	610.4
5°	718.9	717.5	718.9	716.8	715.3	711.1	706.8	699.8	692.0	682.0	670.7
7.5°	721.0	719.6	722.4	722.4	725.3	725.3	725.3	726.0	721.7	714.6	704.7
10°	697.6	697.6	700.5	699.0	704.0	706.1	711.1	719.6	723.9	724.6	721.7
12.5°	685.6	685.6	686.3	683.4	684.9	687.0	692.7	702.6	712.5	722.4	728.1
15°	733.8	735.2	725.3	711.1	700.5	689.1	685.6	692.0	702.6	718.2	730.9
17.5°	897.6	899.7	889.0	855.0	822.4	775.6	733.8	713.2	701.9	714.6	731.7
20°	1127.3	1119.5	1101.0	1064.9	1017.4	945.1	879.8	813.9	750.8	731.7	737.3
22.5°	1289.6	1286.8	1271.9	1231.5	1190.4	1123.0	1040.1	947.9	856.4	798.3	767.8
25°	1343.5	1341.4	1327.9	1303.8	1281.1	1230.1	1155.6	1062.7	967.0	886.2	809.6
27.5°	1383.9	1381.1	1359.8	1332.9	1309.5	1257.7	1189.6	1119.5	1031.5	922.4	804.7
30°	1471.8	1464.0	1434.2	1386.0	1341.4	1269.8	1194.6	1107.4	988.3	868.5	753.6
32.5°	1508.7	1504.4	1478.9	1439.9	1391.0	1297.4	1183.3	1037.2	880.5	777.0	693.4
35°	1500.9	1494.5	1468.3	1423.6	1364.1	1274.0	1121.6	920.9	793.3	721.0	626.7
37.5°	1477.5	1468.3	1437.1	1384.6	1312.3	1194.6	995.4	826.7	744.4	662.9	536.0
40°	1420.8	1405.9	1369.7	1315.1	1242.8	1088.3	880.5	769.9	693.4	580.6	434.6
42.5°	1203.8	1196.0	1213.8	1204.5	1140.7	958.5	799.0	718.2	612.5	469.3	314.8
45°	792.6	806.1	838.0	892.6	905.4	824.5	732.4	633.1	504.1	347.4	181.5
47.5°	733.8	730.9	738.7	749.4	751.5	717.5	633.8	523.2	374.3	198.5	50.3
50°	726.0	721.7	715.3	702.6	675.6	609.7	514.7	381.4	216.2	54.6	3.5
52.5°	573.6	569.3	569.3	550.9	516.1	452.3	355.2	209.9	60.3	3.5	2.8
55°	191.4	204.2	202.1	201.3	216.9	199.9	153.1	53.9	5.0	2.8	2.8
57.5°	3.5	3.5	3.5	6.4	9.9	14.2	8.5	4.3	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
77.5°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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°	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5
2.5°	599.1	589.2	570.0	515.4	455.2	386.4	339.6	333.9
5°	653.0	638.1	606.9	495.6	358.0	238.2	177.2	154.6
7.5°	688.4	668.6	630.3	463.0	260.9	125.5	67.4	53.9
10°	709.7	691.2	642.3	414.0	165.9	49.6	22.7	21.3
12.5°	721.0	703.3	646.6	355.2	93.6	22.7	17.7	17.7
15°	728.8	709.7	640.2	287.1	46.8	17.0	16.3	16.3
17.5°	732.4	709.0	621.8	216.2	24.8	15.6	15.6	15.6
20°	734.5	701.2	587.7	147.5	17.0	14.2	14.9	14.9
22.5°	736.6	682.0	543.1	93.6	13.5	13.5	14.2	14.2
25°	732.4	648.7	480.0	56.7	12.1	12.8	13.5	14.2
27.5°	701.9	598.4	403.4	34.7	10.6	12.1	13.5	14.2
30°	649.4	524.6	314.8	22.0	9.9	12.1	13.5	14.2
32.5°	581.4	440.3	224.7	13.5	9.9	12.1	13.5	14.2
35°	489.9	336.8	146.0	9.2	9.9	12.1	14.2	14.9
37.5°	387.1	235.4	78.7	7.1	9.9	12.1	14.2	14.9
40°	278.6	141.1	28.4	6.4	9.2	12.8	14.9	15.6
42.5°	163.1	52.5	5.0	5.7	9.2	12.8	14.9	15.6
45°	46.8	5.7	2.8	5.7	9.2	12.8	15.6	16.3
47.5°	3.5	2.1	2.8	5.7	9.2	12.8	15.6	17.0
50°	2.1	2.1	2.1	5.7	9.2	13.5	16.3	17.0
52.5°	2.8	2.8	2.8	5.7	9.2	13.5	16.3	17.0
55°	2.8	2.8	2.8	5.7	9.2	13.5	16.3	17.0
57.5°	2.8	2.8	2.8	5.7	9.2	12.8	16.3	17.0
60°	2.8	2.8	2.8	5.0	8.5	12.8	15.6	16.3
62.5°	2.8	2.8	2.8	5.0	8.5	12.1	15.6	15.6
65°	2.8	2.8	2.8	4.3	7.8	11.3	14.2	14.9
67.5°	2.8	2.8	2.8	4.3	7.1	10.6	13.5	14.2
70°	2.1	2.8	2.8	3.5	6.4	9.9	12.8	13.5
72.5°	2.1	2.1	2.8	3.5	5.7	8.5	11.3	12.1
75°	2.1	2.1	2.1	2.8	5.0	7.8	9.9	10.6
77.5°	2.1	2.1	2.1	2.8	4.3	6.4	9.2	9.2
80°	1.4	2.1	2.1	2.1	3.5	5.0	7.1	7.8
82.5°	1.4	1.4	1.4	2.1	2.8	4.3	5.7	5.7
85°	1.4	1.4	1.4	1.4	2.1	2.8	3.5	3.5
87.5°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)