

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: P1315499

Luminaire Tested: LDSQA3D09R509735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315499
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: LDSQA3D09R509735DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

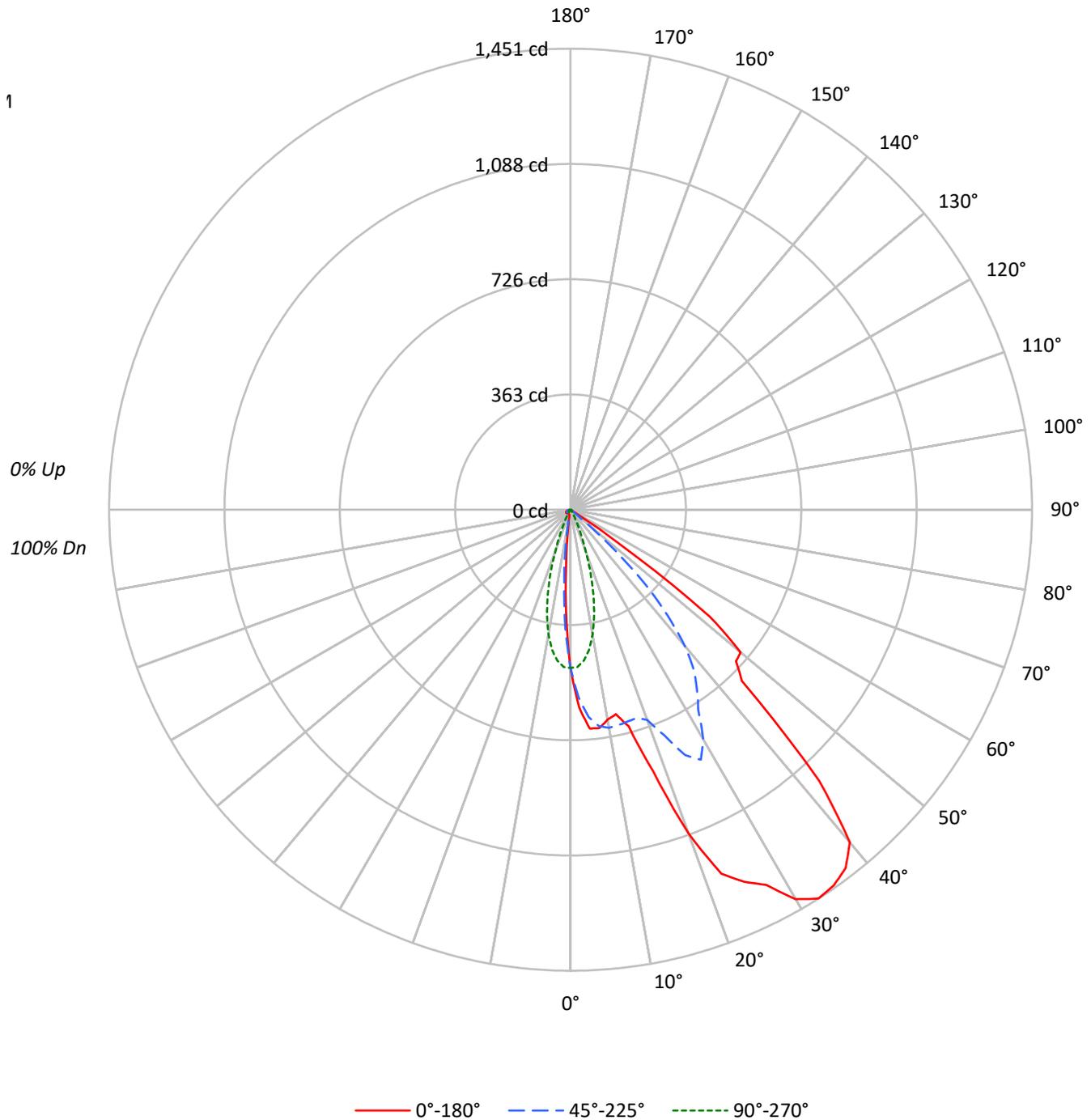
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 774.0 lumens
Efficiency: N/A
Efficacy: 69.7 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 (A_{in}): 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

TEST NUMBER: P1315499
CATALOG NUMBER: LDSQA3D09R509735DE010 3LSQCA30R 1MW

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	92	95	94	92	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	50	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	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	85698	85698	85698	85698	85698
5°	119495	113375	82378	39590	25690
10°	117309	121839	69620	8342	3568
15°	125789	123115	49228	2924	2799
20°	198634	128934	25988	2493	2621
25°	245476	161922	10356	2337	2584
30°	281415	166053	4196	2307	2705
35°	303405	145763	1871	2439	3007
40°	307128	125517	1371	2765	3372
45°	185617	81349	1340	2996	3824
50°	187016	14066	1474	3483	4394
55°	55248	811	1651	3903	4924
60°	930	930	1653	4237	5408
65°	815	815	1671	4442	5827
70°	1007	1007	1712	4784	6546
75°	932	932	1797	4991	6787
80°	694	1389	1984	4761	7438
85°	1383	2766	2766	5335	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 212019 cd/sqm



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CATALOG NUMBER: LDSQA3D09R509735DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	5.2
10°-20°	99.9	12.9
20°-30°	187.2	24.2
30°-40°	223.8	28.9
40°-50°	160.4	20.7
50°-60°	49.4	6.4
60°-70°	6.4	0.8
70°-80°	4.7	0.6
80°-90°	1.9	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°	327.3	42.3
0°-40°	551.1	71.2
0°-60°	761.0	98.3
0°-90°	774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	498	498	498	498	498	
5°	691	656	476	229	149	64
15°	706	690	276	16	16	226
25°	1292	852	54	12	14	595
35°	1443	693	9	12	14	895
45°	762	334	6	12	16	700
55°	184	3	6	13	16	237
65°	2	2	4	11	14	2
75°	1	1	3	8	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°	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6
2.5°	622.4	623.7	625.8	620.3	616.9	614.2	609.4	608.0	596.5	591.7	586.9
5°	691.2	689.8	691.2	689.2	687.8	683.7	679.6	672.8	665.3	655.8	644.9
7.5°	693.3	691.9	694.6	694.6	697.3	697.3	697.3	698.0	693.9	687.1	677.6
10°	670.8	670.8	673.5	672.1	676.9	678.9	683.7	691.9	696.0	696.7	693.9
12.5°	659.2	659.2	659.9	657.1	658.5	660.5	666.0	675.5	685.1	694.6	700.1
15°	705.5	706.9	697.3	683.7	673.5	662.6	659.2	665.3	675.5	690.5	702.8
17.5°	863.0	865.0	854.8	822.1	790.7	745.7	705.5	685.8	674.8	687.1	703.5
20°	1083.8	1076.4	1058.6	1023.9	978.2	908.7	845.9	782.6	721.9	703.5	708.9
22.5°	1240.0	1237.2	1222.9	1184.1	1144.5	1079.8	1000.0	911.4	823.5	767.6	738.2
25°	1291.8	1289.7	1276.8	1253.6	1231.8	1182.7	1111.1	1021.8	929.8	852.1	778.5
27.5°	1330.6	1327.9	1307.4	1281.5	1259.0	1209.3	1143.8	1076.4	991.8	886.8	773.7
30°	1415.1	1407.6	1379.0	1332.7	1289.7	1220.9	1148.6	1064.8	950.2	835.0	724.6
32.5°	1450.6	1446.5	1422.0	1384.5	1337.4	1247.4	1137.7	997.3	846.6	747.1	666.7
35°	1443.1	1437.0	1411.7	1368.8	1311.5	1225.0	1078.4	885.5	762.8	693.3	602.6
37.5°	1420.6	1411.7	1381.7	1331.3	1261.8	1148.6	957.1	794.8	715.7	637.4	515.3
40°	1366.1	1351.7	1317.0	1264.5	1195.0	1046.4	846.6	740.3	666.7	558.3	417.9
42.5°	1157.5	1150.0	1167.0	1158.2	1096.8	921.6	768.2	690.5	589.0	451.3	302.7
45°	762.1	775.1	805.7	858.2	870.5	792.8	704.2	608.7	484.7	334.0	174.5
47.5°	705.5	702.8	710.3	720.5	722.6	689.8	609.4	503.1	359.9	190.9	48.4
50°	698.0	693.9	687.8	675.5	649.6	586.2	494.9	366.7	207.9	52.5	3.4
52.5°	551.5	547.4	547.4	529.7	496.3	434.9	341.5	201.8	57.9	3.4	2.7
55°	184.0	196.3	194.3	193.6	208.6	192.2	147.2	51.8	4.8	2.7	2.7
57.5°	3.4	3.4	3.4	6.1	9.5	13.6	8.2	4.1	2.7	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0
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



TEST NUMBER: P1315499

CATALOG NUMBER: LDSQA3D09R509735DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6
2.5°	576.0	566.5	548.1	495.6	437.6	371.5	326.5	321.1
5°	627.8	613.5	583.5	476.5	344.2	229.0	170.4	148.6
7.5°	661.9	642.8	606.0	445.1	250.9	120.7	64.8	51.8
10°	682.3	664.6	617.6	398.1	159.5	47.7	21.8	20.4
12.5°	693.3	676.2	621.7	341.5	90.0	21.8	17.0	17.0
15°	700.8	682.3	615.5	276.1	45.0	16.4	15.7	15.7
17.5°	704.2	681.7	597.8	207.9	23.9	15.0	15.0	15.0
20°	706.2	674.2	565.1	141.8	16.4	13.6	14.3	14.3
22.5°	708.3	655.8	522.2	90.0	13.0	13.0	13.6	13.6
25°	704.2	623.7	461.5	54.5	11.6	12.3	13.0	13.6
27.5°	674.8	575.3	387.9	33.4	10.2	11.6	13.0	13.6
30°	624.4	504.4	302.7	21.1	9.5	11.6	13.0	13.6
32.5°	559.0	423.3	216.1	13.0	9.5	11.6	13.0	13.6
35°	471.0	323.8	140.4	8.9	9.5	11.6	13.6	14.3
37.5°	372.2	226.3	75.7	6.8	9.5	11.6	13.6	14.3
40°	267.9	135.7	27.3	6.1	8.9	12.3	14.3	15.0
42.5°	156.8	50.4	4.8	5.5	8.9	12.3	14.3	15.0
45°	45.0	5.5	2.7	5.5	8.9	12.3	15.0	15.7
47.5°	3.4	2.0	2.7	5.5	8.9	12.3	15.0	16.4
50°	2.0	2.0	2.0	5.5	8.9	13.0	15.7	16.4
52.5°	2.7	2.7	2.7	5.5	8.9	13.0	15.7	16.4
55°	2.7	2.7	2.7	5.5	8.9	13.0	15.7	16.4
57.5°	2.7	2.7	2.7	5.5	8.9	12.3	15.7	16.4
60°	2.7	2.7	2.7	4.8	8.2	12.3	15.0	15.7
62.5°	2.7	2.7	2.7	4.8	8.2	11.6	15.0	15.0
65°	2.7	2.7	2.7	4.1	7.5	10.9	13.6	14.3
67.5°	2.7	2.7	2.7	4.1	6.8	10.2	13.0	13.6
70°	2.0	2.7	2.7	3.4	6.1	9.5	12.3	13.0
72.5°	2.0	2.0	2.7	3.4	5.5	8.2	10.9	11.6
75°	2.0	2.0	2.0	2.7	4.8	7.5	9.5	10.2
77.5°	2.0	2.0	2.0	2.7	4.1	6.1	8.9	8.9
80°	1.4	2.0	2.0	2.0	3.4	4.8	6.8	7.5
82.5°	1.4	1.4	1.4	2.0	2.7	4.1	5.5	5.5
85°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	3.4
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)