

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: P1319309

Luminaire Tested: LDSQA3D13R709835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R709835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

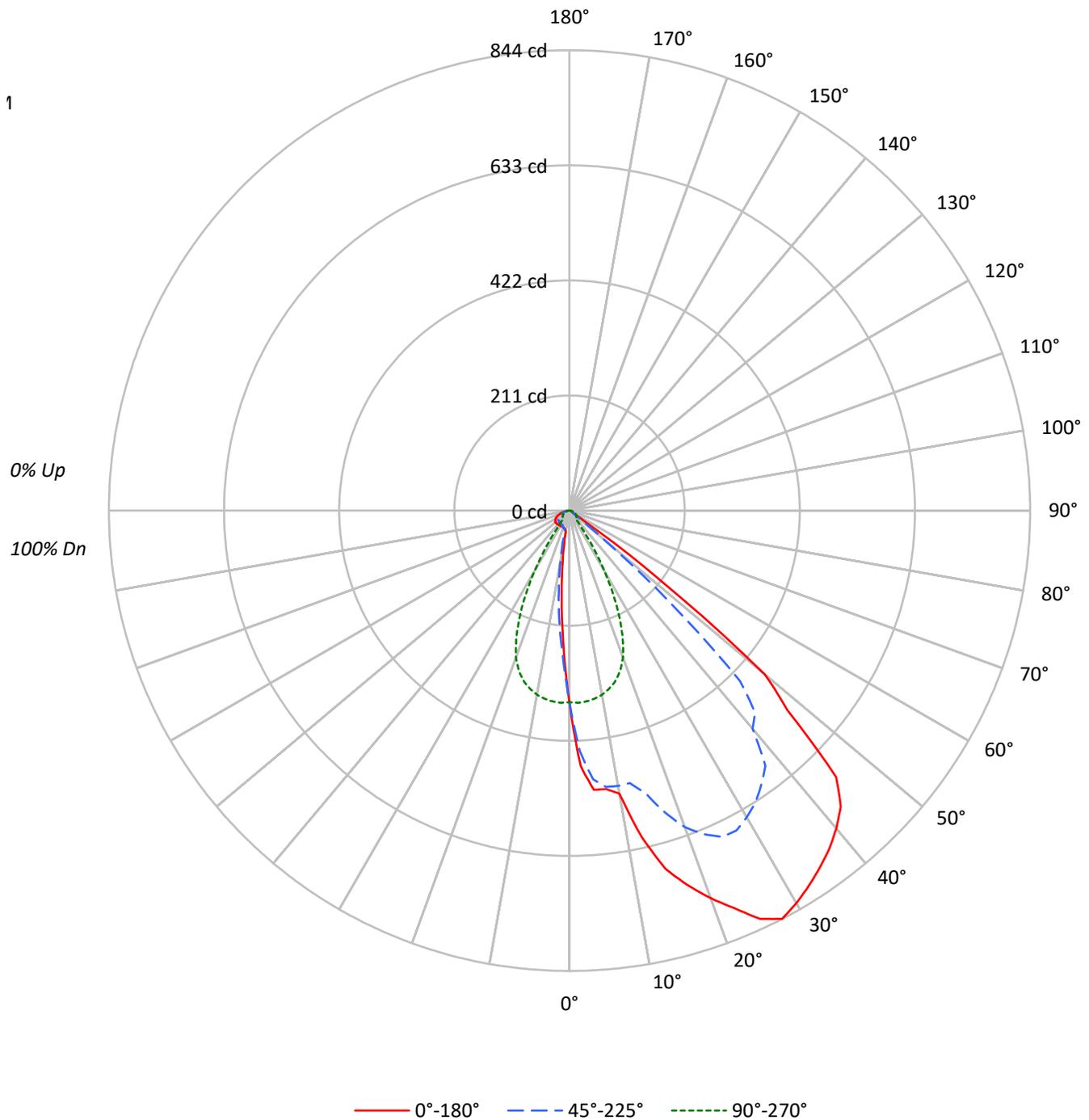
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 667.0 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
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 (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

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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90	
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80	
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57	
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51	
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46	
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38	
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	60485	60485	60485	60485	60485
5°	88843	85438	60716	36236	28387
10°	92126	89608	59949	17331	7013
15°	121314	95532	57751	6205	6080
20°	138575	113191	52563	5956	6103
25°	156905	125418	41274	5758	6043
30°	165257	129143	25594	5727	6463
35°	168028	128880	8431	5887	6833
40°	170999	117244	4092	6295	7487
45°	168300	107653	4238	6625	8111
50°	125124	19880	4260	7288	8922
55°	9999	2732	4534	7717	9548
60°	2101	2859	4443	7819	9920
65°	2160	2771	4320	7702	10188
70°	1913	2669	4179	7251	9920
75°	1530	2529	3527	7053	9582
80°	1488	2281	3769	6744	9025
85°	1581	2964	4545	5928	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 170321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	4.8
10°-20°	89.9	13.5
20°-30°	150.9	22.6
30°-40°	181.5	27.2
40°-50°	143.9	21.6
50°-60°	46.0	6.9
60°-70°	12.9	1.9
70°-80°	7.7	1.1
80°-90°	2.4	0.4
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°	272.7	40.9
0°-40°	454.2	68.1
0°-60°	644.1	96.6
0°-90°	667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	351	351	351	351	351	
5°	514	494	351	210	164	48
15°	680	536	324	35	34	191
25°	826	660	217	30	32	377
35°	799	613	40	28	32	501
45°	691	442	17	27	33	496
55°	33	9	15	26	32	104
65°	5	7	11	19	25	5
75°	2	4	5	11	14	3
85°	1	2	2	3	4	1
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°	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2
2.5°	468.5	471.5	471.5	467.7	469.2	463.2	458.6	451.8	450.3	442.0	431.4
5°	513.9	512.4	512.4	509.4	510.9	508.6	506.3	504.8	500.3	494.2	488.2
7.5°	514.7	516.2	516.9	516.2	519.2	516.9	516.9	516.9	513.9	510.9	504.8
10°	526.8	524.5	522.2	516.9	513.9	511.6	511.6	512.4	513.9	512.4	508.6
12.5°	613.8	605.5	601.7	588.8	579.0	562.3	543.4	529.0	516.2	511.6	508.6
15°	680.4	678.9	671.3	659.2	647.1	627.4	605.5	583.5	560.1	535.8	518.4
17.5°	719.8	716.7	709.2	696.3	681.9	663.7	646.3	629.7	607.0	579.7	551.7
20°	756.1	749.3	739.4	724.3	709.9	692.5	673.6	657.7	638.8	617.6	585.0
22.5°	788.6	782.6	766.7	746.2	731.9	715.2	698.6	683.4	666.0	641.8	612.3
25°	825.7	812.1	786.4	759.9	742.5	728.8	716.7	704.6	686.5	660.0	625.1
27.5°	843.9	825.0	797.0	770.5	753.8	739.4	726.6	714.5	694.0	661.5	621.4
30°	831.0	820.4	800.7	780.3	766.7	753.1	737.9	719.8	687.2	649.4	612.3
32.5°	815.9	810.6	801.5	789.4	781.1	767.4	746.2	716.7	671.3	634.2	594.1
35°	799.2	797.0	793.9	788.6	783.3	770.5	744.0	700.8	655.4	613.0	574.4
37.5°	781.8	779.5	781.8	781.1	776.5	759.9	719.8	679.6	632.7	589.6	514.7
40°	760.6	759.1	762.9	766.7	761.4	739.4	696.3	647.9	606.2	521.5	495.7
42.5°	735.6	734.9	741.7	744.7	737.2	704.6	653.9	618.3	530.5	503.3	442.8
45°	691.0	692.5	695.5	699.3	694.8	659.2	613.0	548.0	509.4	442.0	252.0
47.5°	541.1	542.7	557.8	589.6	611.5	599.4	560.1	511.6	455.6	252.8	79.5
50°	467.0	465.5	466.2	473.8	491.2	507.8	495.7	469.2	271.7	74.2	9.8
52.5°	205.1	227.8	252.0	320.1	364.0	410.2	419.3	293.7	88.6	9.8	9.8
55°	33.3	34.8	43.9	64.3	115.8	174.8	211.9	98.4	9.1	9.1	9.1
57.5°	6.8	6.8	6.8	7.6	11.4	24.2	28.0	8.3	8.3	8.3	9.1
60°	6.1	6.1	6.1	6.1	6.8	6.8	6.8	7.6	7.6	8.3	8.3
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.8	6.8	7.6	7.6	8.3
65°	5.3	5.3	5.3	5.3	6.1	6.1	6.1	6.1	6.8	6.8	7.6
67.5°	4.5	4.5	4.5	4.5	5.3	5.3	5.3	6.1	6.1	6.1	6.8
70°	3.8	3.8	3.8	3.8	4.5	4.5	4.5	4.5	5.3	5.3	5.3
72.5°	3.0	3.0	3.0	3.0	3.8	3.8	3.8	3.8	4.5	4.5	4.5
75°	2.3	2.3	3.0	3.0	3.0	3.0	3.0	3.0	3.8	3.8	3.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3
82.5°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2
2.5°	424.6	414.0	399.6	352.7	309.5	270.2	250.5	248.2
5°	478.3	468.5	444.3	351.2	268.7	209.6	174.1	164.2
7.5°	498.8	490.4	469.2	348.1	230.1	150.6	110.5	95.4
10°	504.1	498.8	480.6	342.8	190.0	99.1	52.2	40.1
12.5°	506.3	502.5	485.1	334.5	149.9	51.5	35.6	35.6
15°	510.1	506.3	489.7	323.9	110.5	34.8	34.1	34.1
17.5°	526.8	514.7	495.7	308.0	72.7	33.3	33.3	33.3
20°	554.0	527.5	498.8	286.8	45.4	32.5	32.5	33.3
22.5°	576.7	541.1	498.0	255.1	33.3	31.0	31.8	32.5
25°	586.5	547.2	491.2	217.2	28.8	30.3	31.8	31.8
27.5°	585.0	549.5	485.1	174.1	27.2	29.5	31.0	32.5
30°	576.7	543.4	471.5	128.7	25.7	28.8	31.0	32.5
32.5°	562.3	519.9	444.3	83.3	25.0	28.8	31.0	32.5
35°	515.4	482.1	404.9	40.1	24.2	28.0	31.8	32.5
37.5°	488.2	442.0	308.8	19.7	23.5	28.0	31.8	32.5
40°	444.3	330.0	139.3	18.2	23.5	28.0	31.8	33.3
42.5°	279.3	135.5	22.7	17.4	22.7	28.0	31.8	33.3
45°	102.2	18.2	12.1	17.4	22.7	27.2	31.8	33.3
47.5°	10.6	10.6	11.4	16.7	21.9	27.2	31.8	33.3
50°	9.8	10.6	11.4	15.9	21.2	27.2	31.0	33.3
52.5°	9.8	10.6	11.4	15.9	20.4	26.5	31.0	33.3
55°	9.8	10.6	10.6	15.1	19.7	25.7	30.3	31.8
57.5°	9.1	9.8	10.6	14.4	18.9	24.2	29.5	31.0
60°	9.1	9.8	10.6	12.9	18.2	22.7	28.0	28.8
62.5°	8.3	9.1	9.8	12.1	16.7	21.2	25.7	27.2
65°	8.3	8.3	9.1	10.6	15.1	18.9	23.5	25.0
67.5°	6.8	7.6	7.6	9.1	12.9	16.7	21.2	22.7
70°	6.1	6.1	6.8	8.3	11.4	14.4	18.2	19.7
72.5°	5.3	5.3	5.3	6.8	9.8	12.9	15.9	17.4
75°	4.5	4.5	4.5	5.3	8.3	10.6	13.6	14.4
77.5°	3.8	3.8	3.8	4.5	6.8	9.1	10.6	12.1
80°	3.0	3.0	3.0	3.8	5.3	6.8	8.3	9.1
82.5°	2.3	2.3	2.3	3.0	3.8	4.5	6.1	6.1
85°	1.5	1.5	1.5	2.3	2.3	3.0	3.8	3.8
87.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)