

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: P1318433

Luminaire Tested: LDSQA3D13R709830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318433
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: LDSQA3D13R709830DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

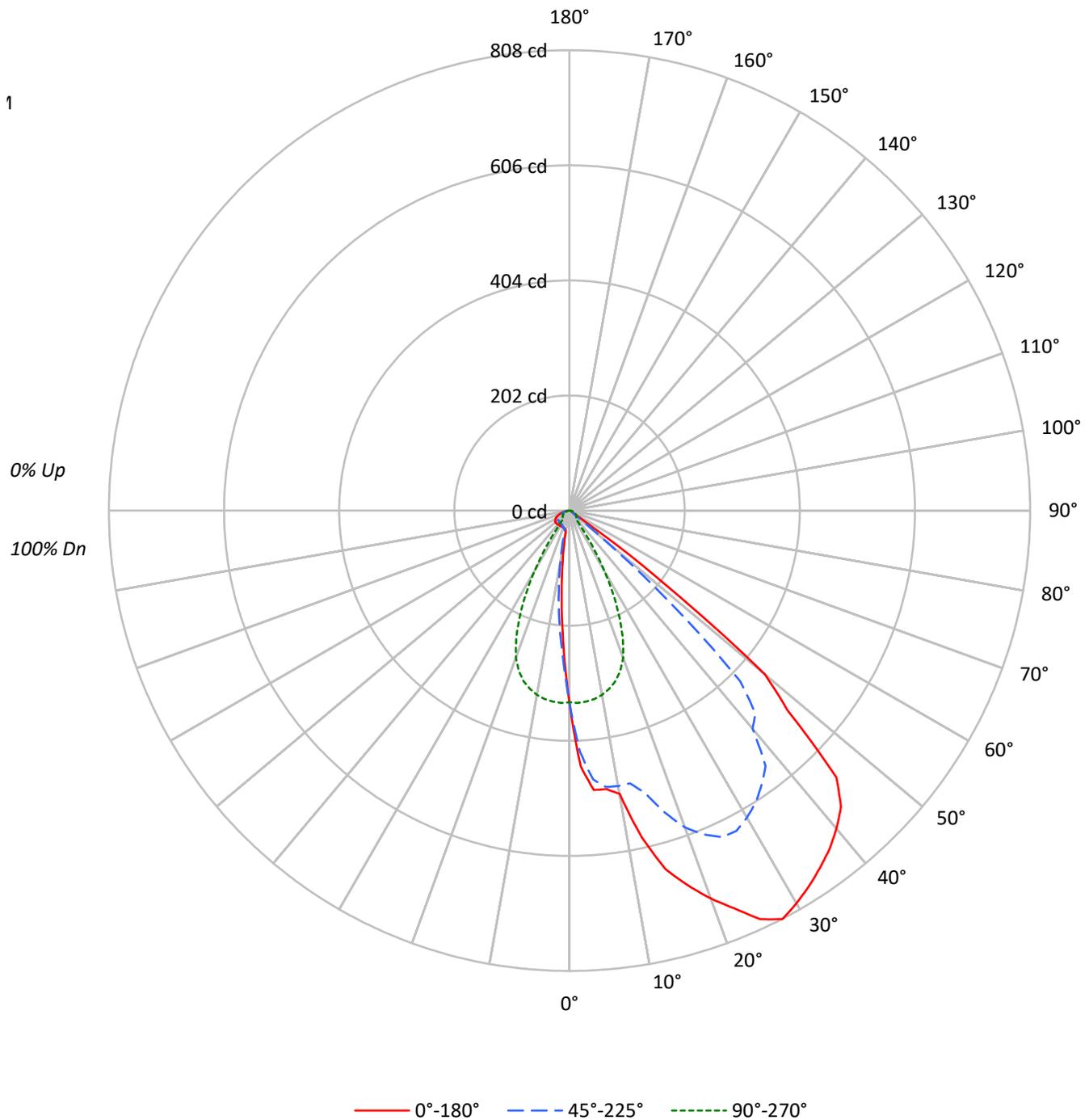
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 639.1 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 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	100				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71				
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57				
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46				
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	57936	57936	57936	57936	57936
5°	85109	81859	58157	34714	27194
10°	88244	85848	57448	16614	6715
15°	116215	91520	55326	5955	5813
20°	132746	108444	50364	5718	5846
25°	150311	120154	39545	5511	5796
30°	158317	123714	24520	5489	6205
35°	160985	123477	8073	5635	6560
40°	163827	112320	3912	6025	7172
45°	161236	103123	4067	6357	7770
50°	119872	19050	4073	6993	8547
55°	9578	2612	4354	7416	9158
60°	1998	2756	4237	7509	9507
65°	2078	2649	4157	7376	9740
70°	1813	2568	4028	6949	9517
75°	1464	2396	3394	6787	9183
80°	1488	2182	3570	6447	8629
85°	1383	2964	4347	5730	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 163185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	4.8
10°-20°	86.1	13.5
20°-30°	144.6	22.6
30°-40°	173.8	27.2
40°-50°	137.8	21.6
50°-60°	44.1	6.9
60°-70°	12.3	1.9
70°-80°	7.4	1.2
80°-90°	2.3	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°	261.3	40.9
0°-40°	435.1	68.1
0°-60°	617.0	96.6
0°-90°	639.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	336	336	336	336	336	
5°	492	474	336	201	157	46
15°	652	513	310	33	33	183
25°	791	632	208	29	30	362
35°	766	587	38	27	31	480
45°	662	423	17	26	32	476
55°	32	9	14	25	30	100
65°	5	6	10	18	24	5
75°	2	4	5	10	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°	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4
2.5°	448.8	451.7	451.7	448.1	449.5	443.7	439.4	432.9	431.4	423.4	413.3
5°	492.3	490.9	490.9	488.0	489.4	487.2	485.1	483.6	479.3	473.5	467.7
7.5°	493.0	494.5	495.2	494.5	497.4	495.2	495.2	495.2	492.3	489.4	483.6
10°	504.6	502.5	500.3	495.2	492.3	490.1	490.1	490.9	492.3	490.9	487.2
12.5°	588.0	580.1	576.4	564.1	554.7	538.7	520.6	506.8	494.5	490.1	487.2
15°	651.8	650.4	643.1	631.5	619.9	601.1	580.1	559.0	536.5	513.3	496.7
17.5°	689.5	686.6	679.4	667.1	653.3	635.9	619.2	603.3	581.5	555.4	528.6
20°	724.3	717.8	708.4	693.9	680.1	663.4	645.3	630.1	612.0	591.7	560.5
22.5°	755.5	749.7	734.5	714.9	701.1	685.2	669.2	654.7	638.1	614.9	586.6
25°	791.0	778.0	753.3	728.0	711.3	698.2	686.6	675.0	657.6	632.3	598.9
27.5°	808.4	790.3	763.5	738.1	722.2	708.4	696.1	684.5	664.9	633.7	595.3
30°	796.1	786.0	767.1	747.5	734.5	721.4	706.9	689.5	658.4	622.1	586.6
32.5°	781.6	776.5	767.8	756.2	748.3	735.2	714.9	686.6	643.1	607.6	569.2
35°	765.7	763.5	760.6	755.5	750.4	738.1	712.7	671.4	627.9	587.3	550.3
37.5°	749.0	746.8	749.0	748.3	743.9	728.0	689.5	651.1	606.2	564.8	493.0
40°	728.7	727.2	730.9	734.5	729.4	708.4	667.1	620.7	580.8	499.6	474.9
42.5°	704.8	704.0	710.6	713.5	706.2	675.0	626.5	592.4	508.3	482.2	424.2
45°	662.0	663.4	666.3	670.0	665.6	631.5	587.3	524.9	488.0	423.4	241.4
47.5°	518.4	519.9	534.4	564.8	585.9	574.3	536.5	490.1	436.5	242.2	76.1
50°	447.4	445.9	446.6	453.9	470.6	486.5	474.9	449.5	260.3	71.1	9.4
52.5°	196.5	218.2	241.4	306.7	348.8	393.0	401.7	281.3	84.8	9.4	9.4
55°	31.9	33.4	42.1	61.6	110.9	167.5	203.0	94.3	8.7	8.7	8.7
57.5°	6.5	6.5	6.5	7.3	10.9	23.2	26.8	8.0	8.0	8.0	8.7
60°	5.8	5.8	5.8	5.8	6.5	6.5	6.5	7.3	7.3	8.0	8.0
62.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.5	6.5	7.3	7.3	8.0
65°	5.1	5.1	5.1	5.1	5.8	5.8	5.8	5.8	6.5	6.5	7.3
67.5°	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.8	5.8	5.8	6.5
70°	3.6	3.6	3.6	3.6	4.4	4.4	4.4	4.4	5.1	5.1	5.1
72.5°	2.9	2.9	2.9	2.9	3.6	3.6	3.6	3.6	4.4	4.4	4.4
75°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.9	3.6	3.6	3.6
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.9	2.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2
82.5°	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	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°	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4
2.5°	406.8	396.6	382.8	337.9	296.6	258.8	240.0	237.8
5°	458.2	448.8	425.6	336.4	257.4	200.8	166.8	157.3
7.5°	477.8	469.8	449.5	333.5	220.4	144.3	105.9	91.4
10°	482.9	477.8	460.4	328.5	182.0	95.0	50.0	38.4
12.5°	485.1	481.4	464.8	320.5	143.6	49.3	34.1	34.1
15°	488.7	485.1	469.1	310.3	105.9	33.4	32.6	32.6
17.5°	504.6	493.0	474.9	295.1	69.6	31.9	31.9	31.9
20°	530.7	505.4	477.8	274.8	43.5	31.2	31.2	31.9
22.5°	552.5	518.4	477.1	244.3	31.9	29.7	30.5	31.2
25°	561.9	524.2	470.6	208.1	27.6	29.0	30.5	30.5
27.5°	560.5	526.4	464.8	166.8	26.1	28.3	29.7	31.2
30°	552.5	520.6	451.7	123.3	24.7	27.6	29.7	31.2
32.5°	538.7	498.1	425.6	79.8	23.9	27.6	29.7	31.2
35°	493.8	461.9	387.9	38.4	23.2	26.8	30.5	31.2
37.5°	467.7	423.4	295.8	18.9	22.5	26.8	30.5	31.2
40°	425.6	316.1	133.4	17.4	22.5	26.8	30.5	31.9
42.5°	267.5	129.8	21.8	16.7	21.8	26.8	30.5	31.9
45°	97.9	17.4	11.6	16.7	21.8	26.1	30.5	31.9
47.5°	10.2	10.2	10.9	16.0	21.0	26.1	30.5	31.9
50°	9.4	10.2	10.9	15.2	20.3	26.1	29.7	31.9
52.5°	9.4	10.2	10.9	15.2	19.6	25.4	29.7	31.9
55°	9.4	10.2	10.2	14.5	18.9	24.7	29.0	30.5
57.5°	8.7	9.4	10.2	13.8	18.1	23.2	28.3	29.7
60°	8.7	9.4	10.2	12.3	17.4	21.8	26.8	27.6
62.5°	8.0	8.7	9.4	11.6	16.0	20.3	24.7	26.1
65°	8.0	8.0	8.7	10.2	14.5	18.1	22.5	23.9
67.5°	6.5	7.3	7.3	8.7	12.3	16.0	20.3	21.8
70°	5.8	5.8	6.5	8.0	10.9	13.8	17.4	18.9
72.5°	5.1	5.1	5.1	6.5	9.4	12.3	15.2	16.7
75°	4.4	4.4	4.4	5.1	8.0	10.2	13.1	13.8
77.5°	3.6	3.6	3.6	4.4	6.5	8.7	10.2	11.6
80°	2.9	2.9	2.9	3.6	5.1	6.5	8.0	8.7
82.5°	2.2	2.2	2.2	2.9	3.6	4.4	5.8	5.8
85°	1.5	1.5	1.5	2.2	2.2	2.9	3.6	3.6
87.5°	0.7	0.7	0.7	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)