

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: P1311391

Luminaire Tested: LDSQA3D09R709040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311391
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: LDSQA3D09R709040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

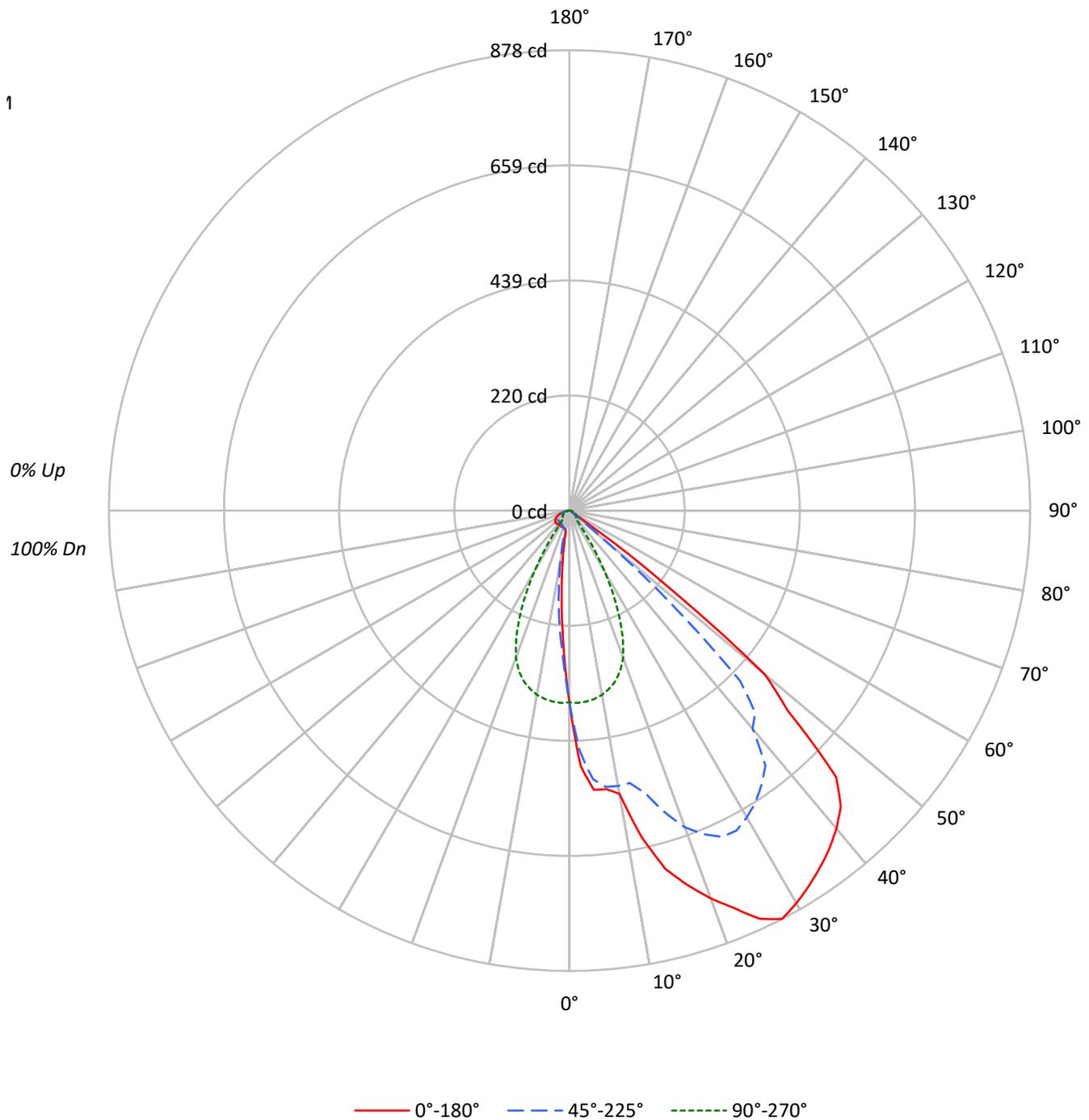
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 694.0 lumens
Efficiency: N/A
Efficacy: 62.5 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): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	90	
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	80	
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	64	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	57	
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	51	
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	46	
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	42	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	62930	62930	62930	62930	62930
5°	92439	88895	63171	37705	29545
10°	95851	93228	62380	18048	7292
15°	126217	99401	60086	6454	6312
20°	144183	117773	54708	6213	6341
25°	163252	130491	42946	5986	6290
30°	171939	134373	26628	5946	6742
35°	174840	134115	8767	6118	7127
40°	177923	121988	4249	6542	7779
45°	175119	112013	4408	6893	8427
50°	130188	20684	4421	7582	9270
55°	10389	2822	4714	8047	9939
60°	2170	2997	4616	8129	10299
65°	2241	2893	4483	8028	10595
70°	1964	2769	4381	7553	10323
75°	1597	2595	3660	7320	9981
80°	1587	2380	3868	7042	9323
85°	1581	3162	4742	6126	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 177214 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	4.8
10°-20°	93.5	13.5
20°-30°	157.0	22.6
30°-40°	188.8	27.2
40°-50°	149.7	21.6
50°-60°	47.9	6.9
60°-70°	13.4	1.9
70°-80°	8.0	1.1
80°-90°	2.5	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°	283.8	40.9
0°-40°	472.6	68.1
0°-60°	670.1	96.6
0°-90°	694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	365	365	365	365	365	
5°	535	514	365	218	171	50
15°	708	558	337	36	35	199
25°	859	687	226	32	33	393
35°	832	638	42	29	34	521
45°	719	460	18	28	35	516
55°	35	9	16	27	33	108
65°	6	7	11	20	26	5
75°	2	4	6	11	15	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°	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4
2.5°	487.4	490.6	490.6	486.7	488.2	481.9	477.2	470.1	468.5	459.9	448.9
5°	534.7	533.1	533.1	530.0	531.5	529.2	526.8	525.2	520.5	514.2	507.9
7.5°	535.5	537.1	537.8	537.1	540.2	537.8	537.8	537.8	534.7	531.5	525.2
10°	548.1	545.7	543.4	537.8	534.7	532.3	532.3	533.1	534.7	533.1	529.2
12.5°	638.6	630.0	626.0	612.7	602.4	585.1	565.4	550.4	537.1	532.3	529.2
15°	707.9	706.4	698.5	685.9	673.3	652.8	630.0	607.1	582.7	557.5	539.4
17.5°	748.9	745.7	737.9	724.5	709.5	690.6	672.5	655.2	631.6	603.2	574.1
20°	786.7	779.6	769.4	753.6	738.7	720.5	700.9	684.3	664.6	642.6	608.7
22.5°	820.5	814.2	797.7	776.5	761.5	744.2	726.8	711.1	693.0	667.8	637.1
25°	859.1	845.0	818.2	790.6	772.5	758.3	745.7	733.1	714.2	686.7	650.5
27.5°	878.0	858.3	829.2	801.6	784.3	769.4	756.0	743.4	722.1	688.3	646.5
30°	864.6	853.6	833.1	811.9	797.7	783.5	767.8	748.9	715.0	675.7	637.1
32.5°	848.9	843.4	833.9	821.3	812.7	798.5	776.5	745.7	698.5	659.9	618.2
35°	831.6	829.2	826.1	820.5	815.0	801.6	774.1	729.2	682.0	637.9	597.7
37.5°	813.5	811.1	813.5	812.7	807.9	790.6	748.9	707.2	658.3	613.4	535.5
40°	791.4	789.8	793.8	797.7	792.2	769.4	724.5	674.1	630.8	542.6	515.8
42.5°	765.4	764.6	771.7	774.9	767.0	733.1	680.4	643.4	552.0	523.7	460.7
45°	719.0	720.5	723.7	727.6	722.9	685.9	637.9	570.1	530.0	459.9	262.2
47.5°	563.0	564.6	580.4	613.4	636.3	623.7	582.7	532.3	474.1	263.0	82.7
50°	485.9	484.3	485.1	493.0	511.1	528.4	515.8	488.2	282.7	77.2	10.2
52.5°	213.4	237.0	262.2	333.1	378.8	426.8	436.3	305.5	92.1	10.2	10.2
55°	34.6	36.2	45.7	66.9	120.5	181.9	220.5	102.4	9.4	9.4	9.4
57.5°	7.1	7.1	7.1	7.9	11.8	25.2	29.1	8.7	8.7	8.7	9.4
60°	6.3	6.3	6.3	6.3	7.1	7.1	7.1	7.9	7.9	8.7	8.7
62.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.1	7.1	7.9	7.9	8.7
65°	5.5	5.5	5.5	5.5	6.3	6.3	6.3	6.3	7.1	7.1	7.9
67.5°	4.7	4.7	4.7	4.7	5.5	5.5	5.5	6.3	6.3	6.3	7.1
70°	3.9	3.9	3.9	3.9	4.7	4.7	4.7	4.7	5.5	5.5	5.5
72.5°	3.1	3.1	3.1	3.1	3.9	3.9	3.9	3.9	4.7	4.7	4.7
75°	2.4	2.4	3.1	3.1	3.1	3.1	3.1	3.1	3.9	3.9	3.9
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.1	3.1	3.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4
82.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
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°	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4
2.5°	441.8	430.7	415.8	367.0	322.1	281.1	260.7	258.3
5°	497.7	487.4	462.2	365.4	279.6	218.1	181.1	170.9
7.5°	518.9	510.3	488.2	362.2	239.4	156.7	115.0	99.2
10°	524.5	518.9	500.0	356.7	197.7	103.2	54.3	41.7
12.5°	526.8	522.9	504.8	348.1	155.9	53.5	37.0	37.0
15°	530.8	526.8	509.5	337.0	115.0	36.2	35.4	35.4
17.5°	548.1	535.5	515.8	320.5	75.6	34.6	34.6	34.6
20°	576.4	548.9	518.9	298.5	47.2	33.9	33.9	34.6
22.5°	600.1	563.0	518.2	265.4	34.6	32.3	33.1	33.9
25°	610.3	569.3	511.1	226.0	29.9	31.5	33.1	33.1
27.5°	608.7	571.7	504.8	181.1	28.3	30.7	32.3	33.9
30°	600.1	565.4	490.6	133.9	26.8	29.9	32.3	33.9
32.5°	585.1	541.0	462.2	86.6	26.0	29.9	32.3	33.9
35°	536.3	501.6	421.3	41.7	25.2	29.1	33.1	33.9
37.5°	507.9	459.9	321.3	20.5	24.4	29.1	33.1	33.9
40°	462.2	343.3	144.9	18.9	24.4	29.1	33.1	34.6
42.5°	290.6	141.0	23.6	18.1	23.6	29.1	33.1	34.6
45°	106.3	18.9	12.6	18.1	23.6	28.3	33.1	34.6
47.5°	11.0	11.0	11.8	17.3	22.8	28.3	33.1	34.6
50°	10.2	11.0	11.8	16.5	22.0	28.3	32.3	34.6
52.5°	10.2	11.0	11.8	16.5	21.3	27.6	32.3	34.6
55°	10.2	11.0	11.0	15.7	20.5	26.8	31.5	33.1
57.5°	9.4	10.2	11.0	15.0	19.7	25.2	30.7	32.3
60°	9.4	10.2	11.0	13.4	18.9	23.6	29.1	29.9
62.5°	8.7	9.4	10.2	12.6	17.3	22.0	26.8	28.3
65°	8.7	8.7	9.4	11.0	15.7	19.7	24.4	26.0
67.5°	7.1	7.9	7.9	9.4	13.4	17.3	22.0	23.6
70°	6.3	6.3	7.1	8.7	11.8	15.0	18.9	20.5
72.5°	5.5	5.5	5.5	7.1	10.2	13.4	16.5	18.1
75°	4.7	4.7	4.7	5.5	8.7	11.0	14.2	15.0
77.5°	3.9	3.9	3.9	4.7	7.1	9.4	11.0	12.6
80°	3.1	3.1	3.1	3.9	5.5	7.1	8.7	9.4
82.5°	2.4	2.4	2.4	3.1	3.9	4.7	6.3	6.3
85°	1.6	1.6	1.6	2.4	2.4	3.1	3.9	3.9
87.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)