

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: P1310273

Luminaire Tested: LDSQA3D09R709035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310273
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: LDSQA3D09R709035DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

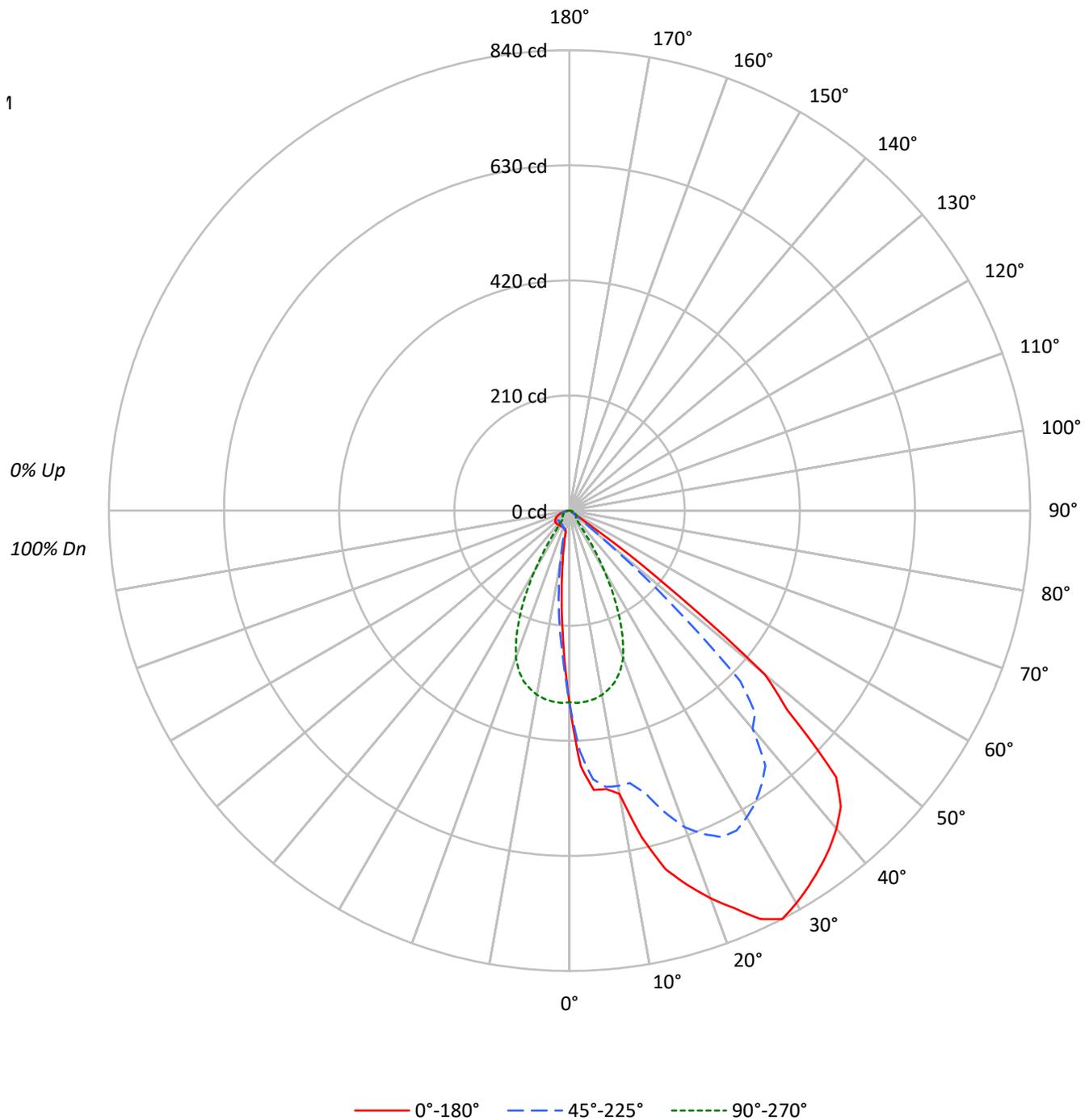
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 664.0 lumens
Efficiency: N/A
Efficacy: 59.8 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): 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

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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	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	61	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°	60209	60209	60209	60209	60209
5°	88446	85057	60439	36080	28266
10°	91707	89206	59686	17261	6978
15°	120761	95104	57501	6187	6044
20°	137951	112678	52343	5938	6085
25°	156202	124848	41084	5720	6005
30°	164521	128547	25475	5688	6443
35°	167271	128313	8389	5866	6812
40°	170234	116704	4069	6272	7464
45°	167545	107166	4214	6600	8086
50°	124561	19773	4233	7261	8895
55°	9969	2702	4534	7687	9488
60°	2067	2859	4409	7784	9851
65°	2160	2771	4279	7661	10147
70°	1913	2669	4179	7201	9869
75°	1530	2529	3527	6987	9515
80°	1488	2281	3769	6744	8926
85°	1581	2964	4545	5928	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 169566 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	4.8
10°-20°	89.5	13.5
20°-30°	150.2	22.6
30°-40°	180.6	27.2
40°-50°	143.2	21.6
50°-60°	45.8	6.9
60°-70°	12.8	1.9
70°-80°	7.6	1.2
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°	271.5	40.9
0°-40°	452.2	68.1
0°-60°	641.2	96.6
0°-90°	664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	350	350	350	350	350	
5°	512	492	350	209	164	48
15°	677	533	322	35	34	191
25°	822	657	216	30	32	376
35°	796	610	40	28	32	498
45°	688	440	17	27	33	494
55°	33	9	15	26	32	104
65°	5	7	10	19	25	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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6
2.5°	466.4	469.4	469.4	465.6	467.1	461.1	456.6	449.8	448.3	440.0	429.5
5°	511.6	510.1	510.1	507.1	508.6	506.3	504.0	502.5	498.0	492.0	486.0
7.5°	512.3	513.8	514.6	513.8	516.9	514.6	514.6	514.6	511.6	508.6	502.5
10°	524.4	522.1	519.9	514.6	511.6	509.3	509.3	510.1	511.6	510.1	506.3
12.5°	611.0	602.7	599.0	586.2	576.4	559.8	541.0	526.7	513.8	509.3	506.3
15°	677.3	675.8	668.3	656.2	644.2	624.6	602.7	580.9	557.5	533.4	516.1
17.5°	716.5	713.5	706.0	693.2	678.8	660.8	643.4	626.9	604.3	577.1	549.3
20°	752.7	745.9	736.1	721.0	706.7	689.4	670.6	654.7	635.9	614.8	582.4
22.5°	785.1	779.1	763.2	742.9	728.6	712.0	695.4	680.4	663.0	638.9	609.5
25°	822.0	808.4	782.8	756.4	739.1	725.6	713.5	701.4	683.4	657.0	622.3
27.5°	840.1	821.2	793.4	767.0	750.4	736.1	723.3	711.2	690.9	658.5	618.6
30°	827.3	816.7	797.1	776.8	763.2	749.7	734.6	716.5	684.1	646.4	609.5
32.5°	812.2	806.9	797.9	785.8	777.5	764.0	742.9	713.5	668.3	631.4	591.4
35°	795.6	793.4	790.4	785.1	779.8	767.0	740.6	697.7	652.5	610.3	571.9
37.5°	778.3	776.0	778.3	777.5	773.0	756.4	716.5	676.6	629.9	586.9	512.3
40°	757.2	755.7	759.5	763.2	758.0	736.1	693.2	644.9	603.5	519.1	493.5
42.5°	732.3	731.6	738.4	741.4	733.8	701.4	651.0	615.6	528.2	501.0	440.8
45°	687.9	689.4	692.4	696.2	691.7	656.2	610.3	545.5	507.1	440.0	250.9
47.5°	538.7	540.2	555.3	586.9	608.8	596.7	557.5	509.3	453.6	251.6	79.1
50°	464.9	463.4	464.1	471.6	489.0	505.6	493.5	467.1	270.5	73.8	9.8
52.5°	204.2	226.8	250.9	318.7	362.4	408.4	417.4	292.3	88.2	9.8	9.8
55°	33.2	34.7	43.7	64.0	115.3	174.0	211.0	97.9	9.0	9.0	9.0
57.5°	6.8	6.8	6.8	7.5	11.3	24.1	27.9	8.3	8.3	8.3	9.0
60°	6.0	6.0	6.0	6.0	6.8	6.8	6.8	7.5	7.5	8.3	8.3
62.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.8	6.8	7.5	7.5	8.3
65°	5.3	5.3	5.3	5.3	6.0	6.0	6.0	6.0	6.8	6.8	7.5
67.5°	4.5	4.5	4.5	4.5	5.3	5.3	5.3	6.0	6.0	6.0	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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6
2.5°	422.7	412.1	397.8	351.1	308.2	269.0	249.4	247.1
5°	476.2	466.4	442.3	349.6	267.5	208.7	173.3	163.5
7.5°	496.5	488.2	467.1	346.6	229.0	149.9	110.0	94.9
10°	501.8	496.5	478.4	341.3	189.1	98.7	52.0	39.9
12.5°	504.0	500.3	483.0	333.0	149.2	51.2	35.4	35.4
15°	507.8	504.0	487.5	322.5	110.0	34.7	33.9	33.9
17.5°	524.4	512.3	493.5	306.6	72.3	33.2	33.2	33.2
20°	551.5	525.1	496.5	285.6	45.2	32.4	32.4	33.2
22.5°	574.1	538.7	495.8	253.9	33.2	30.9	31.6	32.4
25°	583.9	544.7	489.0	216.2	28.6	30.1	31.6	31.6
27.5°	582.4	547.0	483.0	173.3	27.1	29.4	30.9	32.4
30°	574.1	541.0	469.4	128.1	25.6	28.6	30.9	32.4
32.5°	559.8	517.6	442.3	82.9	24.9	28.6	30.9	32.4
35°	513.1	479.9	403.1	39.9	24.1	27.9	31.6	32.4
37.5°	486.0	440.0	307.4	19.6	23.4	27.9	31.6	32.4
40°	442.3	328.5	138.6	18.1	23.4	27.9	31.6	33.2
42.5°	278.0	134.9	22.6	17.3	22.6	27.9	31.6	33.2
45°	101.7	18.1	12.1	17.3	22.6	27.1	31.6	33.2
47.5°	10.5	10.5	11.3	16.6	21.8	27.1	31.6	33.2
50°	9.8	10.5	11.3	15.8	21.1	27.1	30.9	33.2
52.5°	9.8	10.5	11.3	15.8	20.3	26.4	30.9	33.2
55°	9.8	10.5	10.5	15.1	19.6	25.6	30.1	31.6
57.5°	9.0	9.8	10.5	14.3	18.8	24.1	29.4	30.9
60°	9.0	9.8	10.5	12.8	18.1	22.6	27.9	28.6
62.5°	8.3	9.0	9.8	12.1	16.6	21.1	25.6	27.1
65°	8.3	8.3	9.0	10.5	15.1	18.8	23.4	24.9
67.5°	6.8	7.5	7.5	9.0	12.8	16.6	21.1	22.6
70°	6.0	6.0	6.8	8.3	11.3	14.3	18.1	19.6
72.5°	5.3	5.3	5.3	6.8	9.8	12.8	15.8	17.3
75°	4.5	4.5	4.5	5.3	8.3	10.5	13.6	14.3
77.5°	3.8	3.8	3.8	4.5	6.8	9.0	10.5	12.1
80°	3.0	3.0	3.0	3.8	5.3	6.8	8.3	9.0
82.5°	2.3	2.3	2.3	3.0	3.8	4.5	6.0	6.0
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)