

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: P1313754

Luminaire Tested: LDSQA3D13R709727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313754
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: LDSQA3D13R709727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

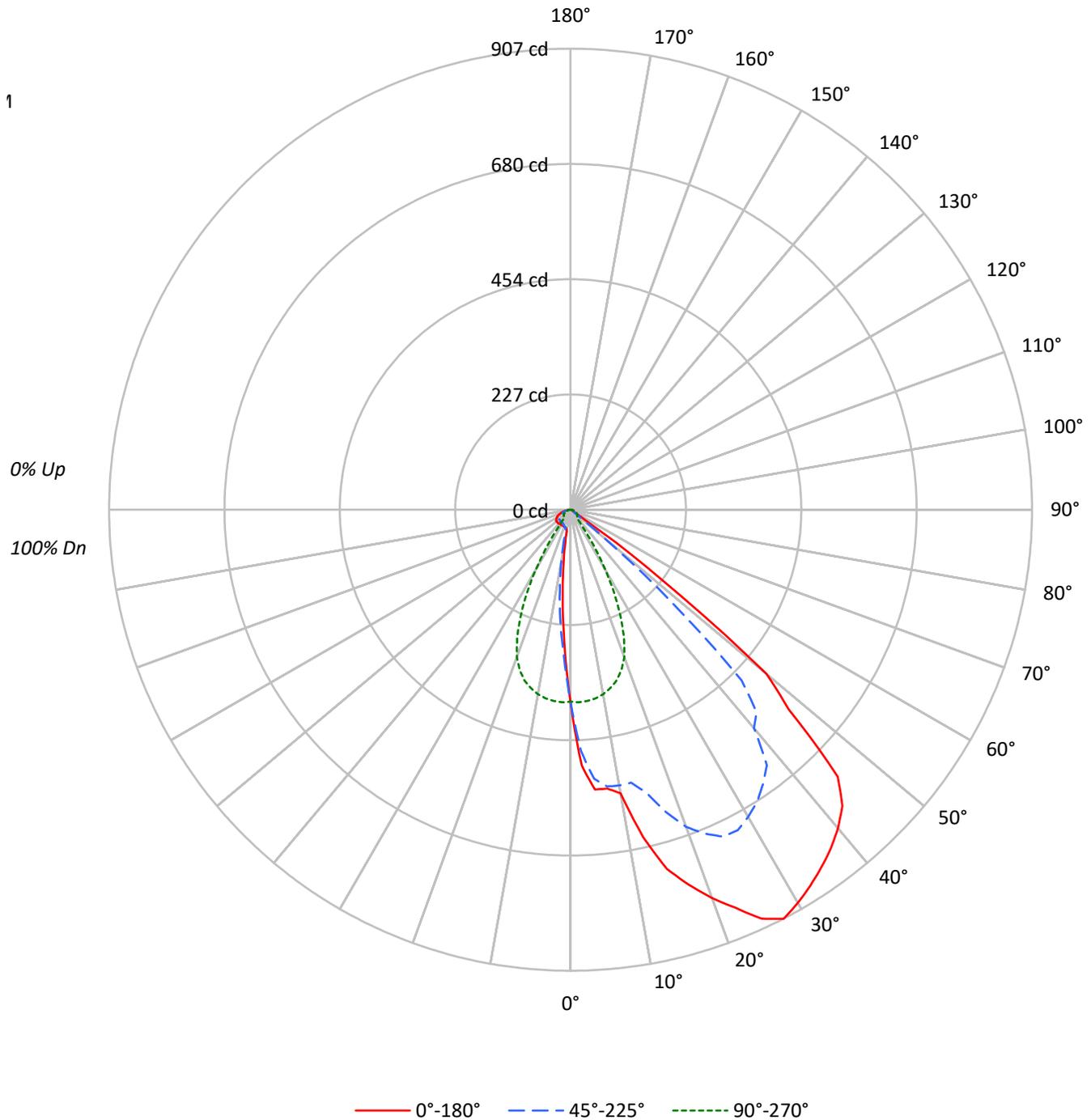
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 717.0 lumens
Efficiency: N/A
Efficacy: 49.1 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): 14.6
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°	65014	65014	65014	65014	65014
5°	95499	91851	65262	38967	30513
10°	99017	96324	64443	18642	7537
15°	130407	102700	62083	6668	6526
20°	148966	121677	56504	6415	6561
25°	168668	134805	44371	6176	6499
30°	177647	138808	27503	6145	6960
35°	180621	138551	9062	6328	7359
40°	183813	126034	4384	6767	8049
45°	180916	115715	4555	7136	8719
50°	134501	21354	4582	7850	9592
55°	10749	2943	4894	8317	10269
60°	2239	3066	4753	8404	10643
65°	2323	2975	4646	8273	10921
70°	2065	2870	4482	7805	10675
75°	1597	2728	3793	7586	10314
80°	1587	2380	4066	7240	9720
85°	1581	3162	4742	6521	8102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 183084 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	4.8
10°-20°	96.6	13.5
20°-30°	162.2	22.6
30°-40°	195.1	27.2
40°-50°	154.6	21.6
50°-60°	49.5	6.9
60°-70°	13.8	1.9
70°-80°	8.2	1.2
80°-90°	2.6	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°	293.2	40.9
0°-40°	488.2	68.1
0°-60°	692.4	96.6
0°-90°	717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	378	378	378	378	378	
5°	552	531	378	225	176	52
15°	731	576	348	37	37	206
25°	888	709	234	32	34	406
35°	859	659	43	30	35	538
45°	743	475	19	29	36	534
55°	36	10	16	28	34	112
65°	6	7	11	20	27	6
75°	2	4	6	11	16	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°	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5
2.5°	503.6	506.9	506.9	502.8	504.4	497.9	493.0	485.7	484.1	475.1	463.7
5°	552.4	550.8	550.8	547.5	549.2	546.7	544.3	542.7	537.8	531.3	524.8
7.5°	553.2	554.9	555.7	554.9	558.1	555.7	555.7	555.7	552.4	549.2	542.7
10°	566.2	563.8	561.4	555.7	552.4	550.0	550.0	550.8	552.4	550.8	546.7
12.5°	659.8	650.9	646.8	633.0	622.4	604.5	584.1	568.7	554.9	550.0	546.7
15°	731.4	729.8	721.6	708.6	695.6	674.5	650.9	627.3	602.0	576.0	557.3
17.5°	773.7	770.5	762.3	748.5	733.0	713.5	694.8	676.9	652.5	623.2	593.1
20°	812.8	805.4	794.9	778.6	763.1	744.4	724.1	707.0	686.7	663.9	628.9
22.5°	847.7	841.2	824.1	802.2	786.7	768.8	750.9	734.7	715.9	689.9	658.2
25°	887.6	873.0	845.3	816.8	798.1	783.5	770.5	757.4	737.9	709.4	672.0
27.5°	907.1	886.8	856.7	828.2	810.3	794.9	781.0	768.0	746.0	711.1	667.9
30°	893.3	881.9	860.8	838.8	824.1	809.5	793.2	773.7	738.7	698.0	658.2
32.5°	877.0	871.3	861.6	848.6	839.6	825.0	802.2	770.5	721.6	681.8	638.7
35°	859.1	856.7	853.4	847.7	842.0	828.2	799.7	753.4	704.6	659.0	617.5
37.5°	840.4	838.0	840.4	839.6	834.7	816.8	773.7	730.6	680.1	633.8	553.2
40°	817.6	816.0	820.1	824.1	818.5	794.9	748.5	696.4	651.7	560.6	532.9
42.5°	790.8	790.0	797.3	800.6	792.4	757.4	702.9	664.7	570.3	541.0	475.9
45°	742.8	744.4	747.7	751.7	746.9	708.6	659.0	589.0	547.5	475.1	270.9
47.5°	581.7	583.3	599.6	633.8	657.4	644.3	602.0	550.0	489.8	271.7	85.4
50°	502.0	500.3	501.2	509.3	528.0	545.9	532.9	504.4	292.1	79.7	10.6
52.5°	220.5	244.9	270.9	344.1	391.3	441.0	450.7	315.7	95.2	10.6	10.6
55°	35.8	37.4	47.2	69.2	124.5	187.9	227.8	105.8	9.8	9.8	9.8
57.5°	7.3	7.3	7.3	8.1	12.2	26.0	30.1	8.9	8.9	8.9	9.8
60°	6.5	6.5	6.5	6.5	7.3	7.3	7.3	8.1	8.1	8.9	8.9
62.5°	6.5	6.5	6.5	6.5	6.5	6.5	7.3	7.3	8.1	8.1	8.9
65°	5.7	5.7	5.7	5.7	6.5	6.5	6.5	6.5	7.3	7.3	8.1
67.5°	4.9	4.9	4.9	4.9	5.7	5.7	5.7	6.5	6.5	6.5	7.3
70°	4.1	4.1	4.1	4.1	4.9	4.9	4.9	4.9	5.7	5.7	5.7
72.5°	3.3	3.3	3.3	3.3	4.1	4.1	4.1	4.1	4.9	4.9	4.9
75°	2.4	2.4	3.3	3.3	3.3	3.3	3.3	3.3	4.1	4.1	4.1
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	3.3	3.3
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°	377.5	377.5	377.5	377.5	377.5	377.5	377.5	377.5
2.5°	456.4	445.0	429.6	379.1	332.8	290.4	269.3	266.9
5°	514.2	503.6	477.6	377.5	288.8	225.4	187.1	176.5
7.5°	536.1	527.2	504.4	374.2	247.3	161.9	118.8	102.5
10°	541.8	536.1	516.6	368.5	204.2	106.6	56.1	43.1
12.5°	544.3	540.2	521.5	359.6	161.1	55.3	38.2	38.2
15°	548.3	544.3	526.4	348.2	118.8	37.4	36.6	36.6
17.5°	566.2	553.2	532.9	331.1	78.1	35.8	35.8	35.8
20°	595.5	567.1	536.1	308.3	48.8	35.0	35.0	35.8
22.5°	619.9	581.7	535.3	274.2	35.8	33.4	34.2	35.0
25°	630.5	588.2	528.0	233.5	30.9	32.5	34.2	34.2
27.5°	628.9	590.7	521.5	187.1	29.3	31.7	33.4	35.0
30°	619.9	584.1	506.9	138.3	27.7	30.9	33.4	35.0
32.5°	604.5	558.9	477.6	89.5	26.8	30.9	33.4	35.0
35°	554.0	518.2	435.3	43.1	26.0	30.1	34.2	35.0
37.5°	524.8	475.1	331.9	21.2	25.2	30.1	34.2	35.0
40°	477.6	354.7	149.7	19.5	25.2	30.1	34.2	35.8
42.5°	300.2	145.6	24.4	18.7	24.4	30.1	34.2	35.8
45°	109.8	19.5	13.0	18.7	24.4	29.3	34.2	35.8
47.5°	11.4	11.4	12.2	17.9	23.6	29.3	34.2	35.8
50°	10.6	11.4	12.2	17.1	22.8	29.3	33.4	35.8
52.5°	10.6	11.4	12.2	17.1	22.0	28.5	33.4	35.8
55°	10.6	11.4	11.4	16.3	21.2	27.7	32.5	34.2
57.5°	9.8	10.6	11.4	15.5	20.3	26.0	31.7	33.4
60°	9.8	10.6	11.4	13.8	19.5	24.4	30.1	30.9
62.5°	8.9	9.8	10.6	13.0	17.9	22.8	27.7	29.3
65°	8.9	8.9	9.8	11.4	16.3	20.3	25.2	26.8
67.5°	7.3	8.1	8.1	9.8	13.8	17.9	22.8	24.4
70°	6.5	6.5	7.3	8.9	12.2	15.5	19.5	21.2
72.5°	5.7	5.7	5.7	7.3	10.6	13.8	17.1	18.7
75°	4.9	4.9	4.9	5.7	8.9	11.4	14.6	15.5
77.5°	4.1	4.1	4.1	4.9	7.3	9.8	11.4	13.0
80°	3.3	3.3	3.3	4.1	5.7	7.3	8.9	9.8
82.5°	2.4	2.4	2.4	3.3	4.1	4.9	6.5	6.5
85°	1.6	1.6	1.6	2.4	2.4	3.3	4.1	4.1
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)