

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: P1313580

Luminaire Tested: LDSQA3D09R659727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R659727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

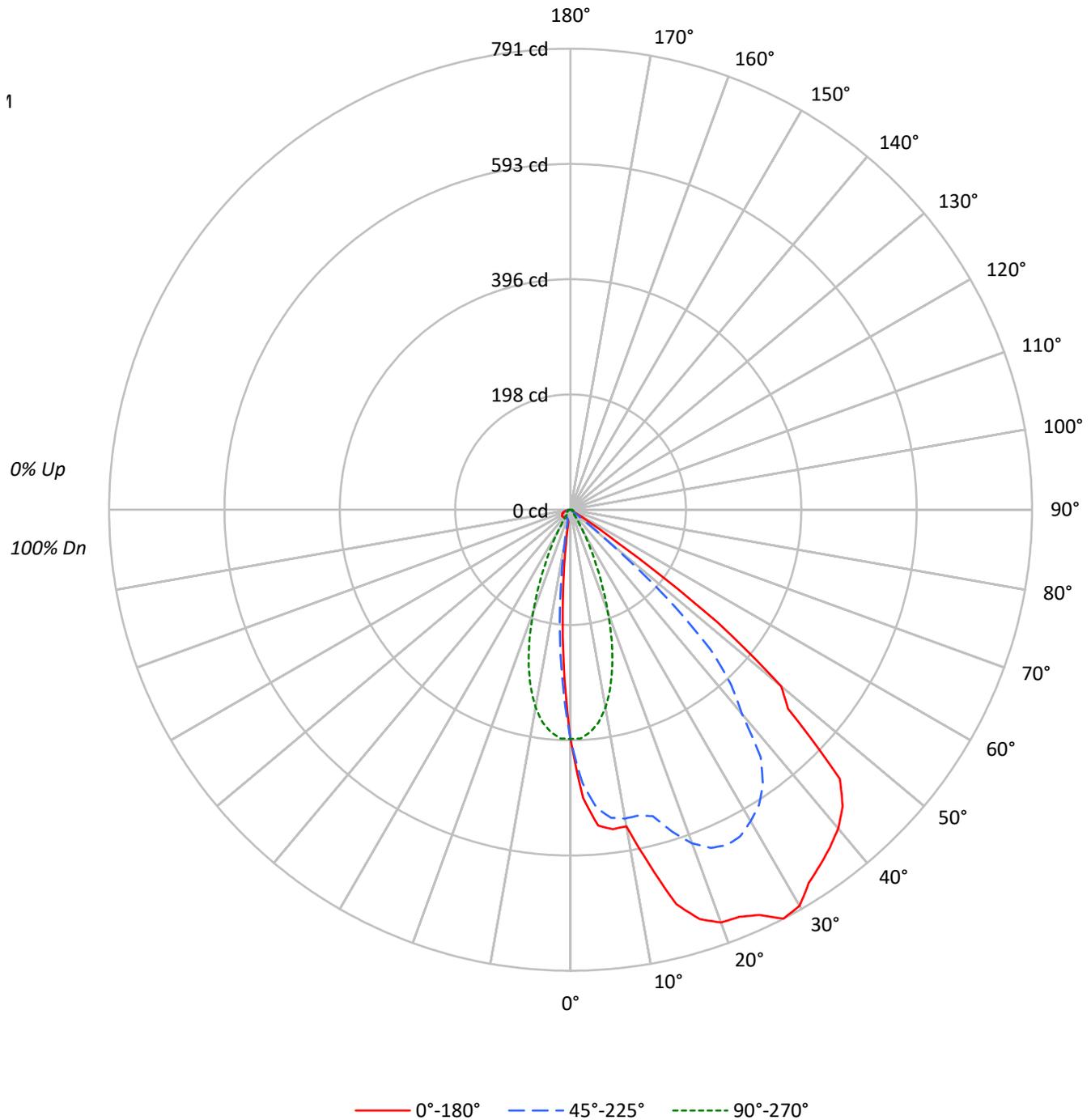
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 589.0 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
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	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	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	95	90	
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	58	
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	53	
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	48	
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	40	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	67683	67683	67683	67683	67683
5°	94064	88774	66248	36409	25604
10°	96446	94085	60263	10160	3742
15°	124951	97012	49335	3281	3174
20°	138098	111615	34328	2914	3024
25°	145731	120610	19421	2793	3021
30°	156050	122700	8770	2804	3162
35°	156612	120849	2838	2964	3469
40°	160455	102653	1933	3170	3844
45°	158923	82737	1948	3434	4165
50°	126115	19505	1956	3778	4769
55°	29966	1111	2012	4234	5345
60°	1068	1274	2308	4443	5683
65°	1263	1263	2241	4727	6235
70°	906	1209	2165	4633	6496
75°	799	1198	2063	4858	6521
80°	595	1190	2380	4860	6645
85°	1186	2371	2371	4742	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 159215 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	5.6
10°-20°	86.4	14.7
20°-30°	135.7	23.0
30°-40°	155.2	26.3
40°-50°	124.7	21.2
50°-60°	40.6	6.9
60°-70°	7.2	1.2
70°-80°	4.7	0.8
80°-90°	1.7	0.3
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°	254.8	43.3
0°-40°	410.0	69.6
0°-60°	575.3	97.7
0°-90°	589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	544	514	383	211	148	51
15°	701	544	277	18	18	195
25°	767	635	102	15	16	357
35°	745	575	14	14	16	468
45°	652	340	8	14	17	469
55°	100	4	7	14	18	143
65°	3	3	6	12	15	3
75°	1	2	3	7	10	1
85°	1	1	1	2	3	0
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°	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0
2.5°	494.6	492.7	495.2	490.9	490.3	486.0	483.6	482.3	476.8	469.5	462.7
5°	544.1	536.8	538.6	538.0	535.0	533.1	530.7	527.6	520.3	513.5	505.0
7.5°	552.7	546.6	547.8	548.4	546.6	546.0	545.4	544.1	539.3	533.1	525.8
10°	551.5	545.4	544.8	542.9	541.1	541.7	541.7	541.7	540.5	538.0	535.6
12.5°	622.5	613.9	612.1	599.2	587.6	567.4	554.6	542.3	536.8	537.4	535.6
15°	700.8	700.2	694.1	681.9	662.3	643.9	614.5	592.5	564.3	544.1	535.6
17.5°	736.3	735.7	730.2	719.8	705.7	688.6	667.2	641.5	610.3	579.0	553.3
20°	753.5	757.8	751.6	743.1	729.6	713.7	693.5	670.2	640.9	609.0	578.4
22.5°	755.9	761.4	755.9	749.8	740.0	729.6	712.5	688.6	658.6	628.0	598.0
25°	766.9	768.8	757.2	749.2	740.0	732.7	719.2	698.4	667.8	634.7	605.4
27.5°	790.8	782.9	758.4	747.4	738.8	732.1	719.2	697.8	664.7	631.1	600.5
30°	784.7	781.6	760.2	749.8	742.5	735.7	719.8	692.3	652.5	617.0	585.2
32.5°	759.6	765.7	758.4	754.7	751.0	742.5	719.2	681.9	637.2	601.1	558.2
35°	744.9	752.3	752.9	752.9	748.6	735.7	708.2	666.6	621.9	574.8	517.2
37.5°	730.2	736.3	740.0	742.5	736.3	718.0	683.1	645.8	596.8	535.0	434.0
40°	713.7	718.0	721.0	722.3	713.1	689.2	657.4	615.2	560.1	456.6	387.5
42.5°	690.4	692.9	692.3	691.7	681.9	655.5	625.6	581.5	472.5	407.0	323.2
45°	652.5	650.0	653.7	653.7	640.9	621.3	581.5	495.8	423.0	339.7	208.1
47.5°	505.6	507.4	525.2	553.9	571.7	566.2	512.3	434.0	355.6	222.8	69.2
50°	470.7	468.9	469.5	472.5	474.4	459.1	420.5	366.6	235.0	72.8	4.9
52.5°	315.8	317.7	331.8	364.2	374.6	363.6	326.9	244.8	85.7	4.9	4.3
55°	99.8	106.5	114.5	131.6	161.6	180.6	176.9	86.9	5.5	3.7	4.3
57.5°	3.7	3.7	4.9	8.6	16.5	26.9	28.2	5.5	4.3	4.3	4.3
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.7	3.7	3.7	3.7	3.7
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7	3.7	3.7	3.7
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.1	3.1	3.1
70°	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
75°	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
80°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0
2.5°	459.1	451.7	437.0	393.0	347.1	301.1	272.4	265.0
5°	495.2	486.6	465.8	383.2	290.1	210.6	165.3	148.1
7.5°	517.2	506.8	482.3	367.9	225.9	122.4	73.5	58.8
10°	527.0	517.8	490.3	344.6	163.4	58.1	25.7	21.4
12.5°	531.3	523.9	493.3	314.0	106.5	25.7	19.0	18.4
15°	533.1	525.2	492.1	276.7	60.6	18.4	17.8	17.8
17.5°	535.0	525.8	484.8	233.8	33.7	17.1	16.5	17.1
20°	549.7	523.3	471.9	187.3	22.0	15.9	15.9	16.5
22.5°	564.3	522.7	449.3	143.2	17.1	15.3	15.9	15.9
25°	569.2	516.6	420.5	102.2	14.7	14.7	15.3	15.9
27.5°	560.1	498.9	381.9	69.2	12.9	14.7	15.3	15.9
30°	538.6	468.9	335.4	44.1	12.2	14.1	15.3	15.9
32.5°	498.9	409.5	283.4	26.3	11.6	14.1	15.9	15.9
35°	419.3	343.4	224.6	13.5	11.6	14.1	15.9	16.5
37.5°	366.6	286.5	156.7	9.2	11.6	14.1	15.9	16.5
40°	304.2	206.9	65.5	8.6	11.6	14.1	15.9	17.1
42.5°	210.6	90.0	10.4	8.0	11.0	14.1	16.5	17.1
45°	75.9	11.6	4.9	8.0	11.0	14.1	16.5	17.1
47.5°	6.7	4.3	4.9	8.0	11.0	14.1	16.5	17.8
50°	4.3	4.3	4.3	7.3	11.0	14.1	16.5	17.8
52.5°	4.3	4.3	4.3	7.3	10.4	14.1	17.1	17.8
55°	4.3	4.3	4.3	6.7	10.4	14.1	16.5	17.8
57.5°	4.3	4.3	4.9	6.7	10.4	13.5	16.5	17.1
60°	4.3	4.3	4.3	6.7	9.8	12.9	15.9	16.5
62.5°	3.7	4.3	4.3	6.1	9.2	12.2	15.3	15.9
65°	3.7	3.7	4.3	5.5	8.6	11.6	14.1	15.3
67.5°	3.1	3.7	3.7	4.9	7.3	10.4	12.9	14.1
70°	3.1	3.1	3.1	4.3	6.7	9.2	12.2	12.9
72.5°	2.4	3.1	3.1	3.7	5.5	8.0	10.4	11.6
75°	2.4	2.4	2.4	3.1	4.9	7.3	9.2	9.8
77.5°	1.8	1.8	2.4	2.4	4.3	5.5	8.0	8.6
80°	1.8	1.8	1.8	2.4	3.1	4.9	6.1	6.7
82.5°	1.2	1.2	1.2	1.8	2.4	3.1	4.3	4.9
85°	1.2	1.2	1.2	1.2	1.8	2.4	3.1	3.1
87.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)