

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: P1308428

Luminaire Tested: LDSQA3D20R309027D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R309027D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

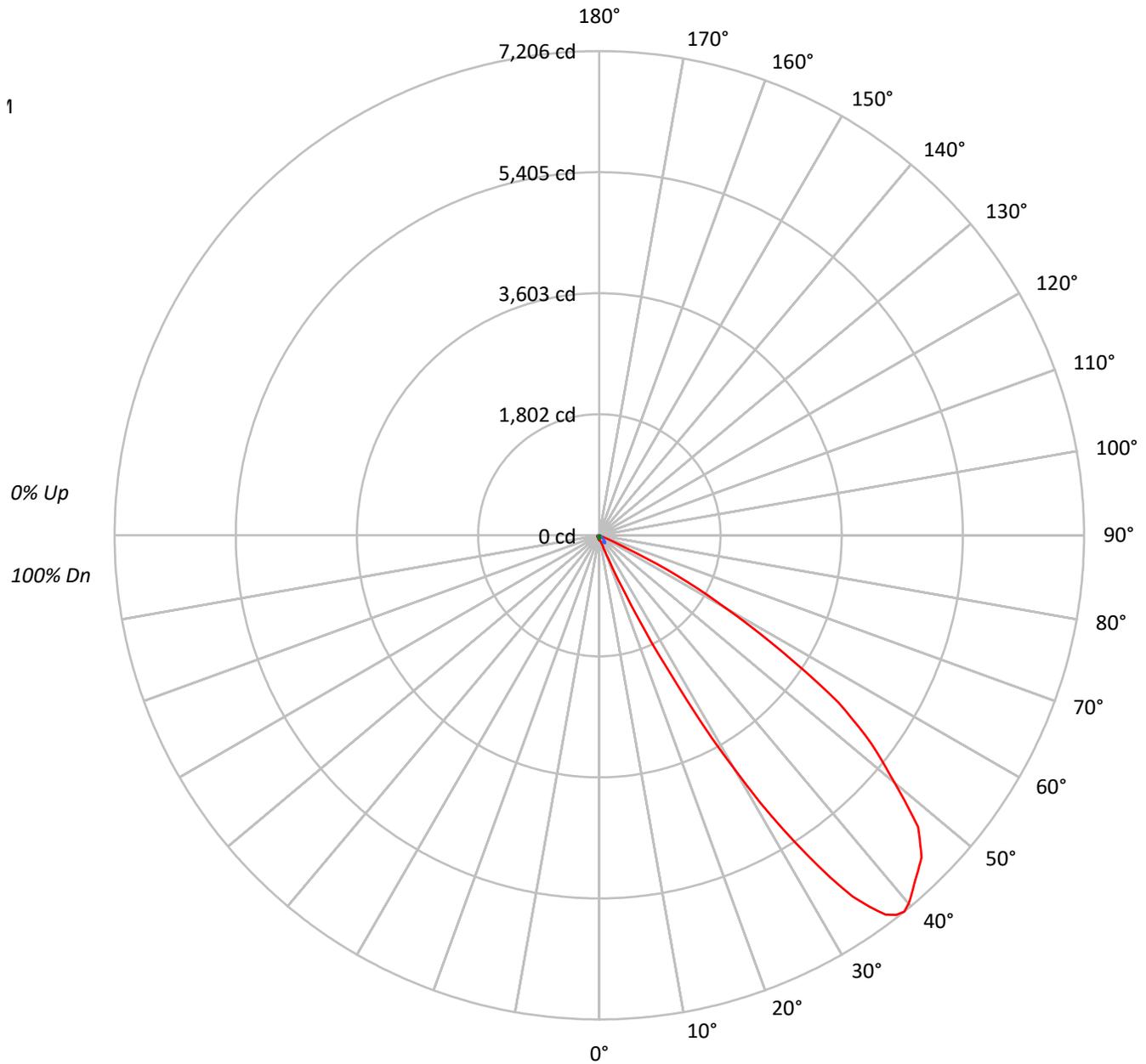
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1873.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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



— 0°-180° - - - 45°-225° ····· 90°-270°



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	26	26	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12503	12503	12503	12503	12503
5°	13364	13087	12275	11185	10909
10°	14620	12976	10755	9653	9374
15°	21378	12944	9004	8166	8433
20°	53791	14167	6946	6946	7808
25°	249752	17691	5397	6290	7202
30°	795065	24480	4077	5966	7219
35°	1379586	29855	3322	5635	7296
40°	1608952	29789	2473	5665	7442
45°	1650068	21141	2679	6138	8062
50°	1534494	11843	2117	6350	9297
55°	1304184	6155	2372	7116	10419
60°	753198	1619	2721	7612	11401
65°	153673	0	3219	9006	12877
70°	2367	806	3978	10323	15106
75°	2129	1065	4192	10514	17833
80°	1587	1587	6248	12497	20332
85°	0	3162	12449	12449	24898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1650068 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.4
10°-20°	18.9	1.0
20°-30°	108.0	5.8
30°-40°	504.5	26.9
40°-50°	713.4	38.1
50°-60°	438.9	23.4
60°-70°	66.9	3.6
70°-80°	10.6	0.6
80°-90°	5.3	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°	133.5	7.1
0°-40°	638.0	34.1
0°-60°	1790.3	95.6
0°-90°	1873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	77	76	71	65	63	8
15°	120	73	50	46	47	43
25°	1314	93	28	33	38	809
35°	6562	142	16	27	35	3938
45°	6775	87	11	25	33	5136
55°	4344	20	8	24	35	3696
65°	377	0	8	22	32	682
75°	3	2	6	16	27	3
85°	0	2	6	6	13	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
2.5°	74.2	74.2	75.7	75.7	74.2	75.7	75.7	75.7	72.6	71.0	67.8
5°	77.3	77.3	77.3	78.9	77.3	77.3	75.7	74.2	71.0	66.3	64.7
7.5°	80.5	80.5	78.9	80.5	78.9	78.9	75.7	72.6	67.8	63.1	60.0
10°	83.6	83.6	82.0	82.0	80.5	80.5	74.2	69.4	61.5	56.8	55.2
12.5°	93.1	93.1	91.5	89.9	86.8	85.2	72.6	64.7	55.2	50.5	48.9
15°	119.9	118.3	115.2	110.4	102.6	101.0	72.6	60.0	50.5	45.8	45.8
17.5°	164.1	162.5	157.8	145.2	131.0	126.2	72.6	53.6	44.2	41.0	41.0
20°	293.5	280.8	257.2	225.6	192.5	175.1	77.3	47.3	37.9	36.3	37.9
21°	383.4	370.8	340.8	288.7	230.3	211.4	80.5	45.8	36.3	34.7	37.9
22°	522.2	508.0	446.5	375.5	291.9	258.7	82.0	42.6	33.1	33.1	36.3
23°	728.9	705.2	601.1	487.5	364.5	317.1	85.2	41.0	31.6	33.1	34.7
24°	954.5	934.0	815.7	645.3	465.4	397.6	88.4	39.4	30.0	30.0	33.1
25°	1314.3	1290.6	1080.7	814.1	590.1	478.1	93.1	36.3	28.4	28.4	33.1
26°	1779.7	1670.8	1391.6	1049.2	727.3	599.5	97.8	34.7	26.8	28.4	31.6
27°	2221.5	2131.5	1817.6	1345.8	899.3	736.8	104.1	33.1	25.2	26.8	31.6
28°	2802.1	2675.8	2279.8	1702.4	1132.8	891.4	110.4	31.6	23.7	26.8	30.0
29°	3452.1	3275.4	2797.3	2103.1	1396.3	1065.0	116.8	30.0	22.1	25.2	30.0
30°	3998.0	3832.3	3354.3	2578.0	1699.2	1293.7	123.1	28.4	20.5	25.2	30.0
31°	4638.5	4387.7	3808.7	2980.3	1959.5	1522.5	129.4	25.2	18.9	23.7	28.4
32°	5157.6	4982.5	4367.2	3434.7	2301.9	1775.0	134.1	23.7	18.9	23.7	28.4
33°	5659.3	5424.3	4829.5	3870.2	2611.2	2033.7	138.8	22.1	17.4	22.1	28.4
34°	6139.0	5922.8	5266.5	4222.0	2903.0	2279.8	142.0	18.9	17.4	22.1	26.8
35°	6561.8	6310.9	5651.5	4566.0	3202.8	2503.9	142.0	17.4	15.8	20.5	26.8
36°	6836.3	6656.5	5985.9	4905.2	3474.2	2716.9	142.0	15.8	14.2	20.5	25.2
37°	7071.4	6861.6	6254.1	5165.5	3674.5	2887.3	142.0	14.2	14.2	20.5	25.2
38°	7167.7	6987.8	6438.7	5395.9	3862.3	3060.8	140.4	12.6	12.6	18.9	25.2
39°	7205.5	7044.6	6577.6	5561.5	4001.1	3177.6	137.3	11.0	12.6	18.9	25.2
40°	7156.6	7035.1	6648.6	5668.8	4111.6	3262.8	132.5	9.5	11.0	18.9	25.2
42.5°	6954.7	6874.2	6632.8	5776.1	4206.2	3325.9	115.2	6.3	11.0	17.4	25.2
45°	6774.8	6686.4	6473.5	5664.1	4083.2	3201.2	86.8	3.2	11.0	17.4	25.2
47.5°	6426.1	6370.9	6203.7	5378.5	3813.4	2920.4	61.5	1.6	9.5	15.8	23.7
50°	5727.2	5675.1	5454.2	4670.1	3280.1	2469.2	44.2	1.6	7.9	15.8	23.7
52.5°	5100.8	5045.6	4728.5	3882.8	2519.6	1809.7	28.4	1.6	7.9	15.8	23.7
55°	4343.5	4247.3	3830.7	2947.2	1786.0	1213.3	20.5	1.6	7.9	14.2	23.7
57.5°	3215.4	3075.0	2702.7	2010.0	1028.7	657.9	11.0	1.6	7.9	14.2	23.7
60°	2186.7	2103.1	1691.3	1060.2	438.6	277.7	4.7	1.6	7.9	14.2	22.1
62.5°	1325.3	1219.6	850.4	451.2	189.3	126.2	0.0	3.2	7.9	14.2	22.1
65°	377.1	334.5	222.5	102.6	53.6	41.0	0.0	3.2	7.9	14.2	22.1
67.5°	12.6	12.6	12.6	11.0	7.9	7.9	1.6	3.2	7.9	14.2	20.5
70°	4.7	4.7	4.7	3.2	3.2	1.6	1.6	3.2	7.9	12.6	20.5
72.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	3.2	6.3	11.0	18.9
75°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.7	6.3	11.0	15.8
77.5°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.7	6.3	9.5	15.8
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7	6.3	9.5	12.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	1.6	4.7	6.3	6.3	9.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	6.3	4.7	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	4.7	4.7	3.2
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):

	157.5°	180°
0°	72.6	72.6
2.5°	67.8	67.8
5°	63.1	63.1
7.5°	58.4	58.4
10°	53.6	53.6
12.5°	50.5	50.5
15°	45.8	47.3
17.5°	42.6	44.2
20°	41.0	42.6
21°	41.0	42.6
22°	39.4	41.0
23°	39.4	41.0
24°	37.9	39.4
25°	36.3	37.9
26°	36.3	37.9
27°	36.3	37.9
28°	34.7	37.9
29°	34.7	36.3
30°	34.7	36.3
31°	33.1	36.3
32°	33.1	36.3
33°	33.1	34.7
34°	31.6	34.7
35°	31.6	34.7
36°	31.6	34.7
37°	31.6	33.1
38°	31.6	34.7
39°	31.6	33.1
40°	31.6	33.1
42.5°	31.6	33.1
45°	31.6	33.1
47.5°	31.6	34.7
50°	31.6	34.7
52.5°	31.6	34.7
55°	31.6	34.7
57.5°	31.6	33.1
60°	31.6	33.1
62.5°	30.0	33.1
65°	30.0	31.6
67.5°	30.0	31.6
70°	28.4	30.0
72.5°	26.8	28.4
75°	23.7	26.8
77.5°	22.1	23.7
80°	18.9	20.5



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	15.8	15.8
85°	11.0	12.6
87.5°	6.3	6.3
90°	0.0	0.0

(END OF REPORT)