

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: P1320397

Luminaire Tested: LDSQA3D20R309840D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320397
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: LDSQA3D20R309840D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

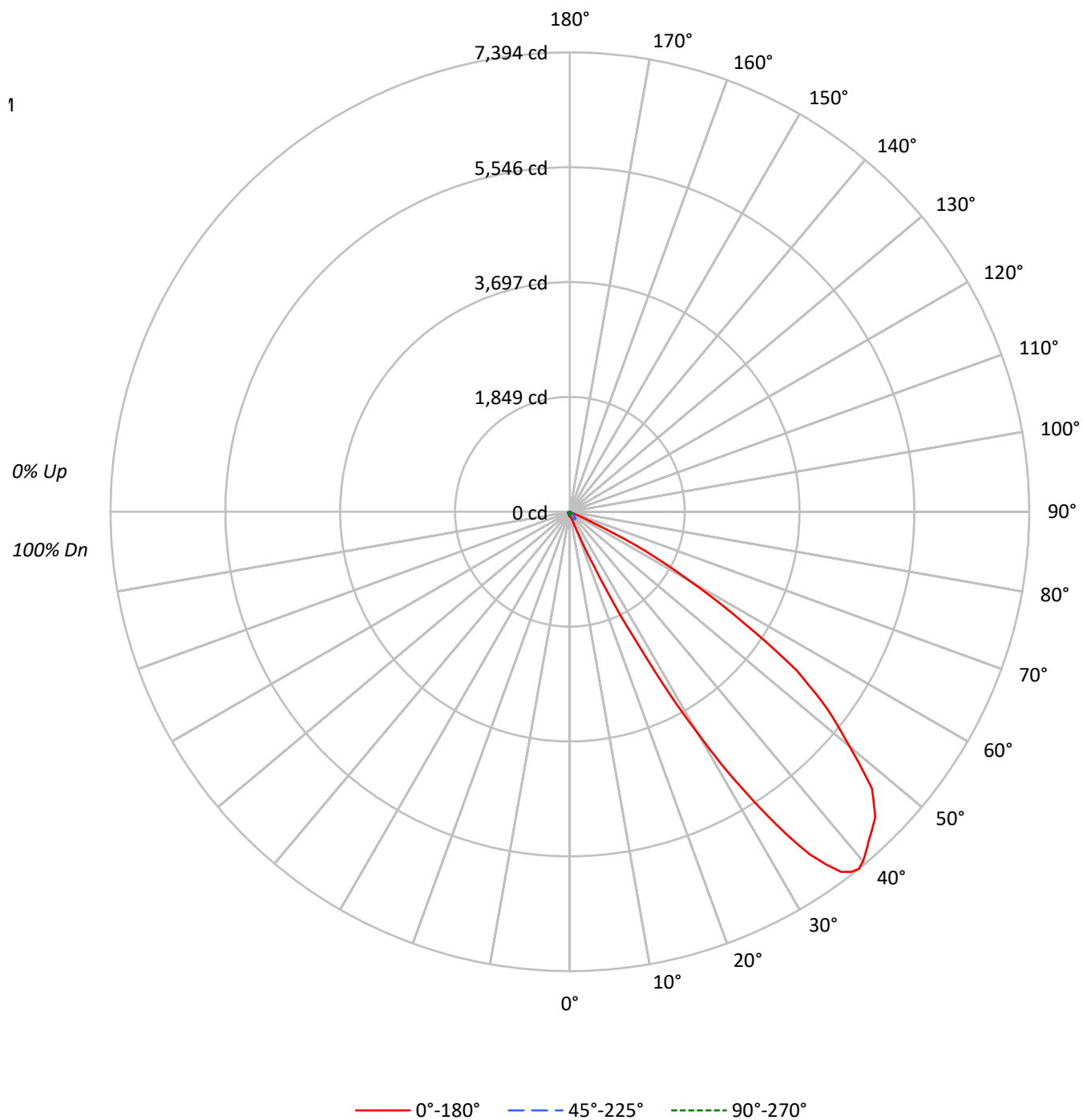
Lumens per Lamp: N/A
Luminaire Lumens: 1922.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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
RW	70	50	30	10	70	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
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12831	12831	12831	12831	12831
5°	13709	13433	12603	11479	11203
10°	15005	13308	11035	9916	9618
15°	21931	13283	9236	8380	8665
20°	55184	14534	7129	7129	8009
25°	256270	18148	5530	6461	7392
30°	815866	25117	4176	6125	7398
35°	1415685	30633	3406	5782	7485
40°	1651038	30576	2540	5823	7644
45°	1693226	21677	2752	6308	8281
50°	1574630	12137	2170	6511	9538
55°	1338293	6305	2432	7296	10689
60°	772935	1688	2790	7819	11711
65°	157667	0	3301	9251	13203
70°	2467	806	4079	10574	15509
75°	2129	1065	4325	10780	18299
80°	1587	1587	6447	12893	20828
85°	0	3162	12844	12844	25688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1693226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.4
10°-20°	19.4	1.0
20°-30°	110.8	5.8
30°-40°	517.7	26.9
40°-50°	732.1	38.1
50°-60°	450.4	23.4
60°-70°	68.6	3.6
70°-80°	10.9	0.6
80°-90°	5.4	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°	137.0	7.1
0°-40°	654.6	34.1
0°-60°	1837.1	95.6
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	79	78	73	66	65	8
15°	123	74	52	47	49	44
25°	1349	96	29	34	39	830
35°	6734	146	16	28	36	4041
45°	6952	89	11	26	34	5270
55°	4457	21	8	24	36	3793
65°	387	0	8	23	32	700
75°	3	2	6	16	28	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°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
2.5°	76.1	76.1	77.7	77.7	76.1	77.7	77.7	77.7	74.5	72.9	69.6
5°	79.3	79.3	79.3	81.0	79.3	79.3	77.7	76.1	72.9	68.0	66.4
7.5°	82.6	82.6	81.0	82.6	81.0	81.0	77.7	74.5	69.6	64.8	61.5
10°	85.8	85.8	84.2	84.2	82.6	82.6	76.1	71.2	63.1	58.3	56.7
12.5°	95.5	95.5	93.9	92.3	89.0	87.4	74.5	66.4	56.7	51.8	50.2
15°	123.0	121.4	118.2	113.3	105.2	103.6	74.5	61.5	51.8	47.0	47.0
17.5°	168.4	166.8	161.9	148.9	134.4	129.5	74.5	55.0	45.3	42.1	42.1
20°	301.1	288.2	263.9	231.5	197.5	179.7	79.3	48.6	38.9	37.2	38.9
21°	393.4	380.5	349.7	296.3	236.4	216.9	82.6	47.0	37.2	35.6	38.9
22°	535.9	521.3	458.2	385.3	299.5	265.5	84.2	43.7	34.0	34.0	37.2
23°	748.0	723.7	616.8	500.3	374.0	325.4	87.4	42.1	32.4	34.0	35.6
24°	979.5	958.5	837.0	662.2	477.6	408.0	90.7	40.5	30.8	30.8	34.0
25°	1348.6	1324.4	1109.0	835.4	605.5	490.6	95.5	37.2	29.1	29.1	34.0
26°	1826.2	1714.5	1428.0	1076.6	746.4	615.2	100.4	35.6	27.5	29.1	32.4
27°	2279.6	2187.3	1865.1	1381.0	922.8	756.1	106.9	34.0	25.9	27.5	32.4
28°	2875.4	2745.8	2339.5	1746.9	1162.5	914.7	113.3	32.4	24.3	27.5	30.8
29°	3542.4	3361.1	2870.5	2158.1	1432.8	1092.8	119.8	30.8	22.7	25.9	30.8
30°	4102.6	3932.6	3442.0	2645.5	1743.7	1327.6	126.3	29.1	21.0	25.9	30.8
31°	4759.9	4502.5	3908.3	3058.3	2010.8	1562.3	132.8	25.9	19.4	24.3	29.1
32°	5292.5	5112.8	4481.4	3524.6	2362.1	1821.4	137.6	24.3	19.4	24.3	29.1
33°	5807.4	5566.2	4955.8	3971.4	2679.5	2086.9	142.5	22.7	17.8	22.7	29.1
34°	6299.6	6077.8	5404.3	4332.5	2979.0	2339.5	145.7	19.4	17.8	22.7	27.5
35°	6733.5	6476.0	5799.3	4685.4	3286.6	2569.4	145.7	17.8	16.2	21.0	27.5
36°	7015.2	6830.6	6142.5	5033.5	3565.1	2787.9	145.7	16.2	14.6	21.0	25.9
37°	7256.4	7041.1	6417.8	5300.6	3770.7	2962.8	145.7	14.6	14.6	21.0	25.9
38°	7355.2	7170.6	6607.2	5537.0	3963.3	3140.9	144.1	13.0	13.0	19.4	25.9
39°	7394.0	7228.9	6749.7	5707.0	4105.8	3260.7	140.9	11.3	13.0	19.4	25.9
40°	7343.8	7219.2	6822.5	5817.1	4219.1	3348.1	136.0	9.7	11.3	19.4	25.9
42.5°	7136.6	7054.0	6806.3	5927.2	4316.3	3412.9	118.2	6.5	11.3	17.8	25.9
45°	6952.0	6861.4	6642.8	5812.3	4190.0	3285.0	89.0	3.2	11.3	17.8	25.9
47.5°	6594.2	6537.6	6366.0	5519.2	3913.2	2996.8	63.1	1.6	9.7	16.2	24.3
50°	5877.0	5823.6	5596.9	4792.3	3365.9	2533.8	45.3	1.6	8.1	16.2	24.3
52.5°	5234.3	5177.6	4852.2	3984.4	2585.6	1857.0	29.1	1.6	8.1	16.2	24.3
55°	4457.1	4358.4	3931.0	3024.3	1832.7	1245.0	21.0	1.6	8.1	14.6	24.3
57.5°	3299.5	3155.5	2773.4	2062.6	1055.6	675.1	11.3	1.6	8.1	14.6	24.3
60°	2244.0	2158.1	1735.6	1088.0	450.1	284.9	4.9	1.6	8.1	14.6	22.7
62.5°	1360.0	1251.5	872.6	463.0	194.3	129.5	0.0	3.2	8.1	14.6	22.7
65°	386.9	343.2	228.3	105.2	55.0	42.1	0.0	3.2	8.1	14.6	22.7
67.5°	13.0	13.0	13.0	11.3	8.1	8.1	1.6	3.2	8.1	14.6	21.0
70°	4.9	4.9	4.9	3.2	3.2	1.6	1.6	3.2	8.1	13.0	21.0
72.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	3.2	6.5	11.3	19.4
75°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.9	6.5	11.3	16.2
77.5°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.9	6.5	9.7	16.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	9.7	13.0



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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	4.9	6.5	6.5	9.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	6.5	4.9	6.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	4.9	4.9	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°	74.5	74.5
2.5°	69.6	69.6
5°	64.8	64.8
7.5°	59.9	59.9
10°	55.0	55.0
12.5°	51.8	51.8
15°	47.0	48.6
17.5°	43.7	45.3
20°	42.1	43.7
21°	42.1	43.7
22°	40.5	42.1
23°	40.5	42.1
24°	38.9	40.5
25°	37.2	38.9
26°	37.2	38.9
27°	37.2	38.9
28°	35.6	38.9
29°	35.6	37.2
30°	35.6	37.2
31°	34.0	37.2
32°	34.0	37.2
33°	34.0	35.6
34°	32.4	35.6
35°	32.4	35.6
36°	32.4	35.6
37°	32.4	34.0
38°	32.4	35.6
39°	32.4	34.0
40°	32.4	34.0
42.5°	32.4	34.0
45°	32.4	34.0
47.5°	32.4	35.6
50°	32.4	35.6
52.5°	32.4	35.6
55°	32.4	35.6
57.5°	32.4	34.0
60°	32.4	34.0
62.5°	30.8	34.0
65°	30.8	32.4
67.5°	30.8	32.4
70°	29.1	30.8
72.5°	27.5	29.1
75°	24.3	27.5
77.5°	22.7	24.3
80°	19.4	21.0



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	16.2	16.2
85°	11.3	13.0
87.5°	6.5	6.5
90°	0.0	0.0

(END OF REPORT)