

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: P1320251

Luminaire Tested: LDSQA3D17R309840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

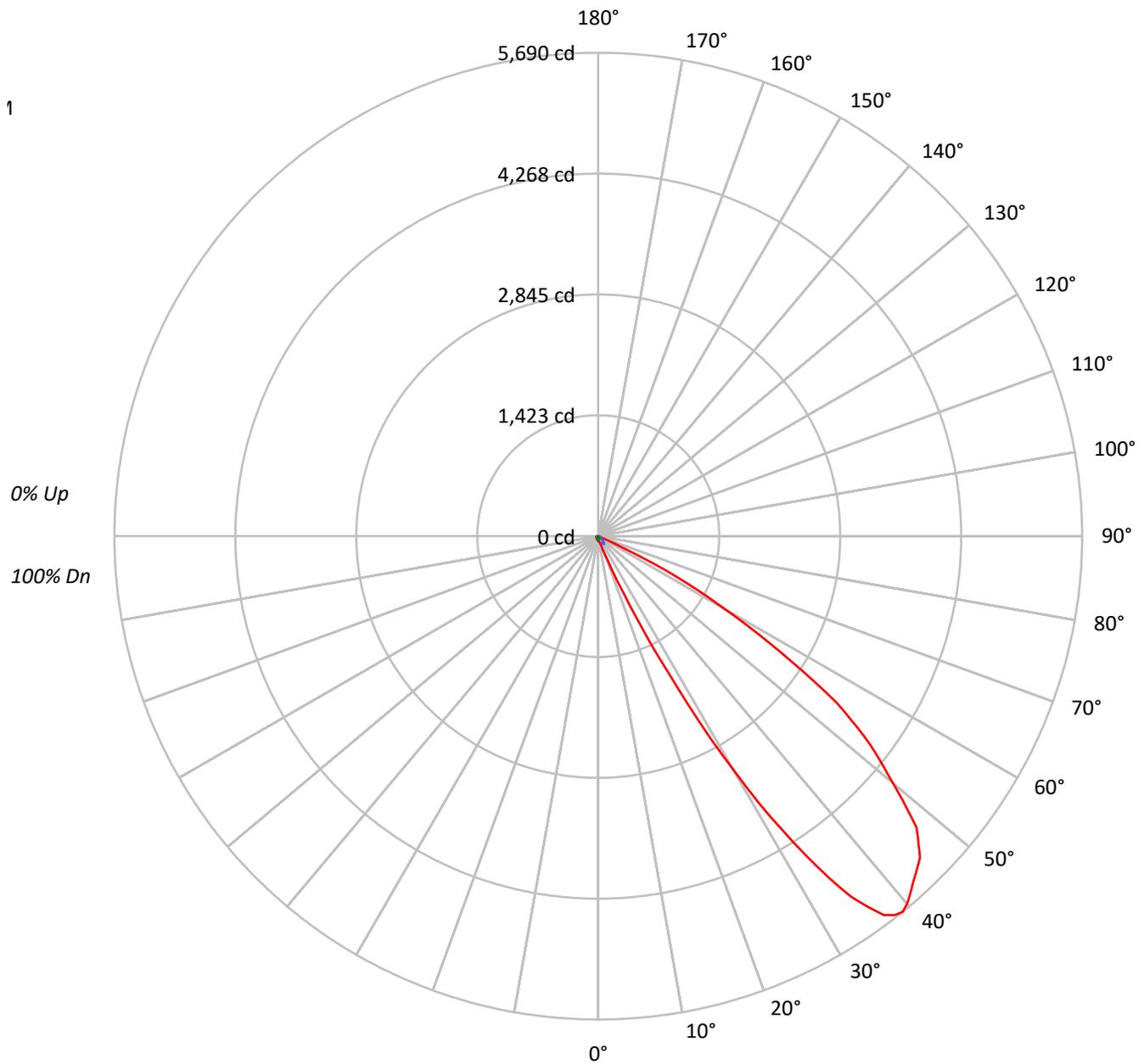
Test Method: LM-79-2019  
Report Number: P1320251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R309840DE010 3LSQCA45R 1MW  
Description: 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: 1479.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 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): 20.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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°	9868	9868	9868	9868	9868
5°	10546	10338	9699	8834	8609
10°	11542	10248	8499	7625	7415
15°	16885	10216	7114	6437	6668
20°	42465	11180	5480	5480	6158
25°	197210	13967	4257	4979	5682
30°	627819	19330	3222	4713	5707
35°	1089385	23568	2628	4457	5761
40°	1270507	23539	1956	4474	5890
45°	1302971	16684	2119	4847	6381
50°	1211691	9351	1661	5010	7341
55°	1029835	4864	1862	5615	8227
60°	594754	1274	2136	5993	9024
65°	121358	0	2527	7091	10147
70°	1863	604	3122	8157	11934
75°	1664	799	3327	8318	14107
80°	1190	1190	4959	9918	16067
85°	0	2371	9880	9880	19760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1302971 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	0.4
10°-20°	14.9	1.0
20°-30°	85.3	5.8
30°-40°	398.4	26.9
40°-50°	563.3	38.1
50°-60°	346.6	23.4
60°-70°	52.8	3.6
70°-80°	8.4	0.6
80°-90°	4.2	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°	105.4	7.1
0°-40°	503.8	34.1
0°-60°	1413.7	95.6
0°-90°	1479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	61	60	56	51	50	6
15°	95	57	40	36	37	34
25°	1038	74	22	26	30	639
35°	5182	112	12	21	27	3110
45°	5350	68	9	20	26	4056
55°	3430	16	6	19	27	2918
65°	298	0	6	17	25	539
75°	2	1	5	12	21	3
85°	0	1	5	5	10	0
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°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
2.5°	58.6	58.6	59.8	59.8	58.6	59.8	59.8	59.8	57.3	56.1	53.6
5°	61.0	61.0	61.0	62.3	61.0	61.0	59.8	58.6	56.1	52.3	51.1
7.5°	63.5	63.5	62.3	63.5	62.3	62.3	59.8	57.3	53.6	49.8	47.3
10°	66.0	66.0	64.8	64.8	63.5	63.5	58.6	54.8	48.6	44.9	43.6
12.5°	73.5	73.5	72.3	71.0	68.5	67.3	57.3	51.1	43.6	39.9	38.6
15°	94.7	93.4	90.9	87.2	81.0	79.7	57.3	47.3	39.9	36.1	36.1
17.5°	129.6	128.3	124.6	114.6	103.4	99.7	57.3	42.4	34.9	32.4	32.4
20°	231.7	221.8	203.1	178.2	152.0	138.3	61.0	37.4	29.9	28.7	29.9
21°	302.7	292.8	269.1	228.0	181.9	166.9	63.5	36.1	28.7	27.4	29.9
22°	412.4	401.2	352.6	296.5	230.5	204.3	64.8	33.6	26.2	26.2	28.7
23°	575.6	556.9	474.7	385.0	287.8	250.4	67.3	32.4	24.9	26.2	27.4
24°	753.7	737.5	644.1	509.6	367.5	314.0	69.8	31.1	23.7	23.7	26.2
25°	1037.8	1019.1	853.4	642.9	465.9	377.5	73.5	28.7	22.4	22.4	26.2
26°	1405.3	1319.4	1098.8	828.5	574.3	473.4	77.2	27.4	21.2	22.4	24.9
27°	1754.2	1683.1	1435.2	1062.7	710.1	581.8	82.2	26.2	19.9	21.2	24.9
28°	2212.6	2113.0	1800.2	1344.3	894.5	703.9	87.2	24.9	18.7	21.2	23.7
29°	2725.9	2586.4	2208.9	1660.7	1102.6	840.9	92.2	23.7	17.4	19.9	23.7
30°	3157.0	3026.2	2648.7	2035.7	1341.8	1021.6	97.2	22.4	16.2	19.9	23.7
31°	3662.8	3464.7	3007.5	2353.4	1547.3	1202.2	102.2	19.9	15.0	18.7	22.4
32°	4072.7	3934.4	3448.5	2712.2	1817.7	1401.6	105.9	18.7	15.0	18.7	22.4
33°	4468.9	4283.2	3813.5	3056.1	2061.9	1605.9	109.6	17.4	13.7	17.4	22.4
34°	4847.6	4676.9	4158.6	3333.9	2292.4	1800.2	112.1	15.0	13.7	17.4	21.2
35°	5181.5	4983.4	4462.6	3605.5	2529.1	1977.2	112.1	13.7	12.5	16.2	21.2
36°	5398.3	5256.2	4726.7	3873.3	2743.4	2145.3	112.1	12.5	11.2	16.2	19.9
37°	5583.9	5418.2	4938.5	4078.9	2901.6	2279.9	112.1	11.2	11.2	16.2	19.9
38°	5659.9	5517.9	5084.3	4260.8	3049.8	2416.9	110.9	10.0	10.0	15.0	19.9
39°	5689.8	5562.7	5193.9	4391.6	3159.5	2509.1	108.4	8.7	10.0	15.0	19.9
40°	5651.2	5555.2	5250.0	4476.3	3246.7	2576.4	104.7	7.5	8.7	15.0	19.9
42.5°	5491.7	5428.2	5237.5	4561.0	3321.4	2626.2	90.9	5.0	8.7	13.7	19.9
45°	5349.7	5279.9	5111.7	4472.6	3224.3	2527.8	68.5	2.5	8.7	13.7	19.9
47.5°	5074.3	5030.7	4898.7	4247.1	3011.2	2306.1	48.6	1.2	7.5	12.5	18.7
50°	4522.4	4481.3	4306.9	3687.7	2590.1	1949.8	34.9	1.2	6.2	12.5	18.7
52.5°	4027.8	3984.2	3733.8	3066.0	1989.6	1429.0	22.4	1.2	6.2	12.5	18.7
55°	3429.8	3353.8	3024.9	2327.2	1410.3	958.1	16.2	1.2	6.2	11.2	18.7
57.5°	2539.0	2428.2	2134.1	1587.2	812.3	519.5	8.7	1.2	6.2	11.2	18.7
60°	1726.7	1660.7	1335.5	837.2	346.3	219.3	3.7	1.2	6.2	11.2	17.4
62.5°	1046.5	963.0	671.5	356.3	149.5	99.7	0.0	2.5	6.2	11.2	17.4
65°	297.8	264.1	175.7	81.0	42.4	32.4	0.0	2.5	6.2	11.2	17.4
67.5°	10.0	10.0	10.0	8.7	6.2	6.2	1.2	2.5	6.2	11.2	16.2
70°	3.7	3.7	3.7	2.5	2.5	1.2	1.2	2.5	6.2	10.0	16.2
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	2.5	5.0	8.7	15.0
75°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	5.0	8.7	12.5
77.5°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	5.0	7.5	12.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	7.5	10.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.7	5.0	5.0	7.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	5.0	3.7	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	3.7	3.7	2.5
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°	57.3	57.3
2.5°	53.6	53.6
5°	49.8	49.8
7.5°	46.1	46.1
10°	42.4	42.4
12.5°	39.9	39.9
15°	36.1	37.4
17.5°	33.6	34.9
20°	32.4	33.6
21°	32.4	33.6
22°	31.1	32.4
23°	31.1	32.4
24°	29.9	31.1
25°	28.7	29.9
26°	28.7	29.9
27°	28.7	29.9
28°	27.4	29.9
29°	27.4	28.7
30°	27.4	28.7
31°	26.2	28.7
32°	26.2	28.7
33°	26.2	27.4
34°	24.9	27.4
35°	24.9	27.4
36°	24.9	27.4
37°	24.9	26.2
38°	24.9	27.4
39°	24.9	26.2
40°	24.9	26.2
42.5°	24.9	26.2
45°	24.9	26.2
47.5°	24.9	27.4
50°	24.9	27.4
52.5°	24.9	27.4
55°	24.9	27.4
57.5°	24.9	26.2
60°	24.9	26.2
62.5°	23.7	26.2
65°	23.7	24.9
67.5°	23.7	24.9
70°	22.4	23.7
72.5°	21.2	22.4
75°	18.7	21.2
77.5°	17.4	18.7
80°	15.0	16.2



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	12.5	12.5
85°	8.7	10.0
87.5°	5.0	5.0
90°	0.0	0.0

(END OF REPORT)