

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: P1320105

Luminaire Tested: LDSQA3D13R309840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

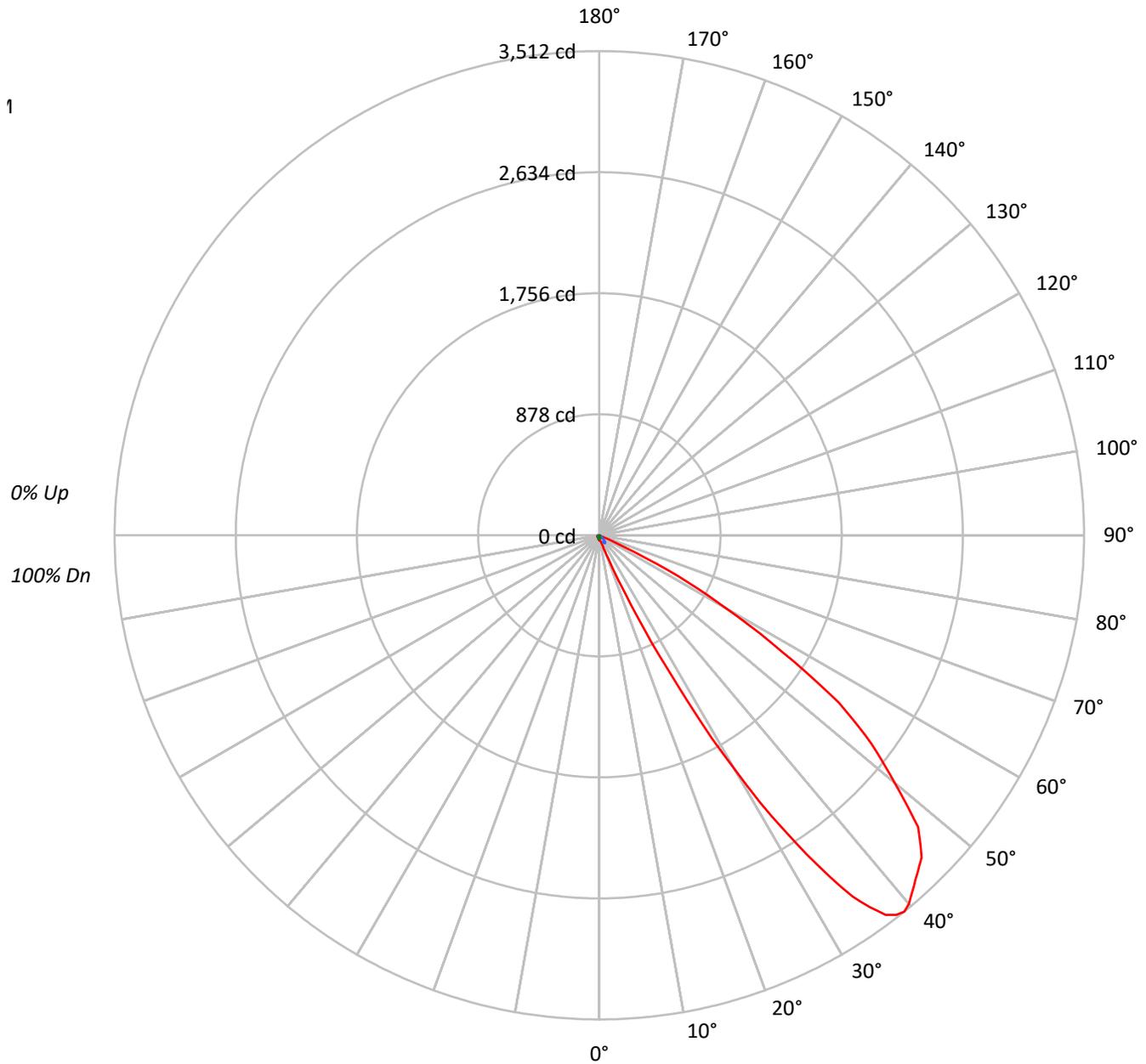
Test Method: LM-79-2019  
Report Number: P1320105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309840DE010 3LSQCA45R 1MW  
Description: 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: 913.0 lumens  
Efficiency: N/A  
Efficacy: 63.0 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): 14.5  
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



— 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°	6097	6097	6097	6097	6097
5°	6518	6379	5982	5446	5325
10°	7135	6313	5246	4704	4564
15°	10413	6312	4386	3976	4119
20°	26208	6909	3391	3391	3812
25°	121731	8627	2622	3078	3515
30°	387549	11932	1989	2903	3520
35°	672490	14549	1619	2754	3553
40°	784287	14523	1214	2765	3642
45°	804331	10303	1315	2996	3946
50°	747983	5761	1018	3081	4528
55°	635743	3003	1141	3453	5074
60°	367144	792	1309	3720	5580
65°	74901	0	1549	4401	6276
70°	1158	403	1913	5035	7352
75°	998	532	2063	5124	8717
80°	793	793	3075	6149	9918
85°	0	1581	6126	6126	12251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 804331 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	9.2	1.0
20°-30°	52.7	5.8
30°-40°	245.9	26.9
40°-50°	347.8	38.1
50°-60°	213.9	23.4
60°-70°	32.6	3.6
70°-80°	5.2	0.6
80°-90°	2.6	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°	65.1	7.1
0°-40°	311.0	34.1
0°-60°	872.7	95.6
0°-90°	913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	38	37	35	32	31	4
15°	58	35	25	22	23	21
25°	641	45	14	16	18	394
35°	3199	69	8	13	17	1920
45°	3302	42	5	12	16	2504
55°	2117	10	4	12	17	1802
65°	184	0	4	11	15	333
75°	2	1	3	8	13	2
85°	0	1	3	3	6	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°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
2.5°	36.1	36.1	36.9	36.9	36.1	36.9	36.9	36.9	35.4	34.6	33.1
5°	37.7	37.7	37.7	38.5	37.7	37.7	36.9	36.1	34.6	32.3	31.5
7.5°	39.2	39.2	38.5	39.2	38.5	38.5	36.9	35.4	33.1	30.8	29.2
10°	40.8	40.8	40.0	40.0	39.2	39.2	36.1	33.8	30.0	27.7	26.9
12.5°	45.4	45.4	44.6	43.8	42.3	41.5	35.4	31.5	26.9	24.6	23.8
15°	58.4	57.7	56.1	53.8	50.0	49.2	35.4	29.2	24.6	22.3	22.3
17.5°	80.0	79.2	76.9	70.8	63.8	61.5	35.4	26.1	21.5	20.0	20.0
20°	143.0	136.9	125.4	110.0	93.8	85.4	37.7	23.1	18.5	17.7	18.5
21°	186.9	180.7	166.1	140.7	112.3	103.1	39.2	22.3	17.7	16.9	18.5
22°	254.6	247.6	217.6	183.0	142.3	126.1	40.0	20.8	16.2	16.2	17.7
23°	355.3	343.8	293.0	237.6	177.7	154.6	41.5	20.0	15.4	16.2	16.9
24°	465.3	455.3	397.6	314.6	226.9	193.8	43.1	19.2	14.6	14.6	16.2
25°	640.6	629.1	526.8	396.8	287.6	233.0	45.4	17.7	13.8	13.8	16.2
26°	867.5	814.4	678.3	511.4	354.5	292.2	47.7	16.9	13.1	13.8	15.4
27°	1082.9	1039.0	886.0	656.0	438.4	359.2	50.8	16.2	12.3	13.1	15.4
28°	1365.9	1304.3	1111.3	829.8	552.2	434.5	53.8	15.4	11.5	13.1	14.6
29°	1682.7	1596.6	1363.6	1025.2	680.6	519.1	56.9	14.6	10.8	12.3	14.6
30°	1948.8	1868.1	1635.0	1256.7	828.3	630.6	60.0	13.8	10.0	12.3	14.6
31°	2261.1	2138.8	1856.5	1452.8	955.2	742.2	63.1	12.3	9.2	11.5	13.8
32°	2514.1	2428.7	2128.8	1674.3	1122.1	865.2	65.4	11.5	9.2	11.5	13.8
33°	2758.7	2644.1	2354.1	1886.5	1272.8	991.3	67.7	10.8	8.5	10.8	13.8
34°	2992.5	2887.1	2567.2	2058.0	1415.1	1111.3	69.2	9.2	8.5	10.8	13.1
35°	3198.6	3076.3	2754.8	2225.7	1561.2	1220.5	69.2	8.5	7.7	10.0	13.1
36°	3332.4	3244.7	2917.9	2391.0	1693.5	1324.3	69.2	7.7	6.9	10.0	12.3
37°	3447.0	3344.7	3048.6	2517.9	1791.2	1407.4	69.2	6.9	6.9	10.0	12.3
38°	3493.9	3406.2	3138.6	2630.2	1882.7	1492.0	68.4	6.2	6.2	9.2	12.3
39°	3512.4	3433.9	3206.3	2711.0	1950.4	1548.9	66.9	5.4	6.2	9.2	12.3
40°	3488.5	3429.3	3240.9	2763.3	2004.2	1590.4	64.6	4.6	5.4	9.2	12.3
42.5°	3390.1	3350.8	3233.2	2815.6	2050.3	1621.2	56.1	3.1	5.4	8.5	12.3
45°	3302.4	3259.3	3155.5	2761.0	1990.4	1560.4	42.3	1.5	5.4	8.5	12.3
47.5°	3132.4	3105.5	3024.0	2621.8	1858.8	1423.6	30.0	0.8	4.6	7.7	11.5
50°	2791.7	2766.4	2658.7	2276.5	1598.9	1203.6	21.5	0.8	3.8	7.7	11.5
52.5°	2486.4	2459.5	2304.9	1892.7	1228.2	882.1	13.8	0.8	3.8	7.7	11.5
55°	2117.3	2070.3	1867.3	1436.6	870.6	591.4	10.0	0.8	3.8	6.9	11.5
57.5°	1567.4	1498.9	1317.4	979.8	501.4	320.7	5.4	0.8	3.8	6.9	11.5
60°	1065.9	1025.2	824.4	516.8	213.8	135.4	2.3	0.8	3.8	6.9	10.8
62.5°	646.0	594.5	414.5	220.0	92.3	61.5	0.0	1.5	3.8	6.9	10.8
65°	183.8	163.0	108.4	50.0	26.1	20.0	0.0	1.5	3.8	6.9	10.8
67.5°	6.2	6.2	6.2	5.4	3.8	3.8	0.8	1.5	3.8	6.9	10.0
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	1.5	3.8	6.2	10.0
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	1.5	3.1	5.4	9.2
75°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	5.4	7.7
77.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.1	4.6	7.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.6	6.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.3	3.1	3.1	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	2.3	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3	2.3	1.5
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°	35.4	35.4
2.5°	33.1	33.1
5°	30.8	30.8
7.5°	28.5	28.5
10°	26.1	26.1
12.5°	24.6	24.6
15°	22.3	23.1
17.5°	20.8	21.5
20°	20.0	20.8
21°	20.0	20.8
22°	19.2	20.0
23°	19.2	20.0
24°	18.5	19.2
25°	17.7	18.5
26°	17.7	18.5
27°	17.7	18.5
28°	16.9	18.5
29°	16.9	17.7
30°	16.9	17.7
31°	16.2	17.7
32°	16.2	17.7
33°	16.2	16.9
34°	15.4	16.9
35°	15.4	16.9
36°	15.4	16.9
37°	15.4	16.2
38°	15.4	16.9
39°	15.4	16.2
40°	15.4	16.2
42.5°	15.4	16.2
45°	15.4	16.2
47.5°	15.4	16.9
50°	15.4	16.9
52.5°	15.4	16.9
55°	15.4	16.9
57.5°	15.4	16.2
60°	15.4	16.2
62.5°	14.6	16.2
65°	14.6	15.4
67.5°	14.6	15.4
70°	13.8	14.6
72.5°	13.1	13.8
75°	11.5	13.1
77.5°	10.8	11.5
80°	9.2	10.0



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	7.7	7.7
85°	5.4	6.2
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)