

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: P1314826

Luminaire Tested: LDSQA3D17R409730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

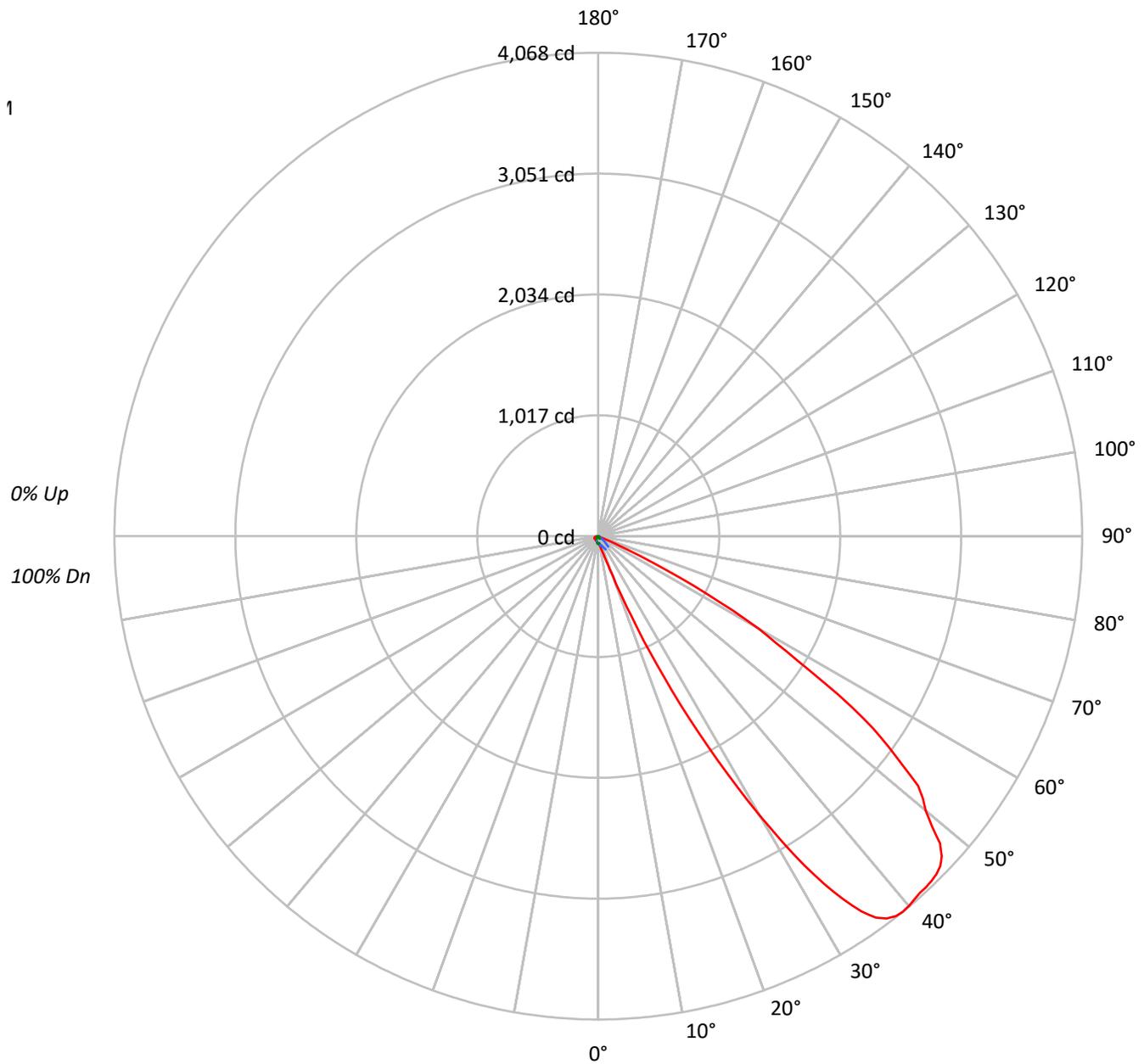
Test Method: LM-79-2019  
Report Number: P1314826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R409730DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1257.0 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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				
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	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	62	62	62	60
4	82	70	62	55	80	69	61	54	67	59	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	38	50	43	37	48	42	37	37	37	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	26	26	26	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	19	19	19	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	11126	11126	11126	11126	11126
5°	12378	11981	10978	9975	9785
10°	14935	12714	10091	9076	8884
15°	24498	13782	8647	8023	8237
20°	64733	16293	7184	7184	7826
25°	249638	20181	5701	6575	7677
30°	538568	26867	4594	6423	7577
35°	810621	31789	3890	6307	7758
40°	913289	31925	3372	6497	8296
45°	979280	24746	3093	6747	8987
50°	962515	15460	2786	7127	9887
55°	846766	7627	2762	7987	11080
60°	535991	1584	3169	8749	12331
65°	109621	489	3301	9414	13652
70°	2316	604	3474	10474	15711
75°	2329	1530	3859	11512	17700
80°	2281	1190	4562	12596	20629
85°	2371	2371	9090	13635	22724

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47°  
 Luminance: 996975 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.0	0.5
10°-20°	19.9	1.6
20°-30°	97.6	7.8
30°-40°	317.6	25.3
40°-50°	437.8	34.8
50°-60°	304.9	24.3
60°-70°	57.8	4.6
70°-80°	10.5	0.8
80°-90°	4.8	0.4
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°	123.6	9.8
0°-40°	441.2	35.1
0°-60°	1183.9	94.2
0°-90°	1257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	72	69	64	58	57	7
15°	137	77	48	45	46	50
25°	1314	106	30	35	40	676
35°	3856	151	18	30	37	2330
45°	4021	102	13	28	37	3058
55°	2820	25	9	27	37	2410
65°	269	1	8	23	34	476
75°	4	2	6	17	27	3
85°	1	1	5	7	12	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2.5°	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	65.8	64.6
5°	71.6	71.6	71.6	71.6	70.4	70.4	70.4	69.3	69.3	67.0	63.5
7.5°	76.2	76.2	76.2	76.2	75.0	73.9	72.7	72.7	71.6	65.8	61.2
10°	85.4	85.4	84.3	83.1	82.0	79.7	78.5	76.2	72.7	64.6	57.7
12.5°	103.9	101.6	100.4	98.1	94.7	90.0	85.4	82.0	73.9	62.3	54.3
15°	137.4	135.1	130.4	123.5	116.6	107.4	99.3	91.2	77.3	58.9	48.5
17.5°	196.2	189.3	182.4	170.8	153.5	137.4	120.1	105.0	82.0	55.4	43.9
20°	353.2	348.6	307.1	274.7	222.8	185.9	151.2	125.8	88.9	51.9	39.2
22.5°	728.4	679.9	611.8	501.0	390.2	287.4	208.9	158.2	95.8	47.3	34.6
25°	1313.7	1237.5	1090.9	877.3	647.6	458.3	302.4	206.6	106.2	42.7	30.0
27.5°	1989.0	1911.7	1684.2	1389.9	1014.7	691.5	431.7	273.6	120.1	38.1	26.6
30°	2708.2	2642.4	2353.8	1946.3	1430.3	968.5	578.3	341.7	135.1	33.5	23.1
31°	2997.9	2913.7	2602.0	2167.9	1625.4	1082.8	637.2	370.6	140.8	32.3	21.9
32°	3264.6	3168.8	2845.5	2380.3	1783.5	1206.3	701.9	396.0	145.5	30.0	20.8
33°	3494.3	3382.3	3070.7	2581.2	1957.8	1321.8	768.8	420.2	148.9	27.7	19.6
34°	3689.4	3592.4	3257.7	2783.2	2112.5	1432.6	834.6	444.4	151.2	26.6	18.5
35°	3855.6	3767.9	3436.6	2936.7	2263.7	1539.9	894.6	467.5	151.2	24.2	18.5
36°	3967.6	3891.4	3591.3	3093.7	2390.7	1631.1	945.4	488.3	151.2	21.9	17.3
37°	4028.8	3954.9	3692.9	3223.0	2515.4	1721.2	991.6	504.5	150.1	20.8	16.2
38°	4060.0	3995.3	3767.9	3328.1	2602.0	1785.8	1032.0	517.2	148.9	18.5	16.2
39°	4068.0	4013.8	3815.2	3404.3	2686.2	1850.5	1060.9	524.1	145.5	17.3	15.0
40°	4062.3	4014.9	3840.6	3472.4	2750.9	1901.3	1081.7	526.4	142.0	15.0	15.0
41°	4050.7	4013.8	3859.1	3519.7	2802.8	1933.6	1089.7	521.8	137.4	12.7	13.9
42°	4040.3	3999.9	3867.2	3552.0	2838.6	1949.7	1088.6	512.5	130.4	11.5	13.9
43°	4040.3	3994.2	3868.3	3572.8	2855.9	1950.9	1074.7	495.2	121.2	10.4	12.7
44°	4033.4	3990.7	3874.1	3586.7	2860.6	1940.5	1052.8	476.8	110.8	9.2	12.7
45°	4020.7	3975.7	3872.9	3587.8	2852.5	1915.1	1017.0	452.5	101.6	6.9	12.7
46°	3996.5	3956.1	3862.6	3579.7	2828.2	1878.2	974.3	428.3	91.2	5.8	11.5
47°	3948.0	3916.8	3834.8	3552.0	2791.3	1823.9	923.5	400.6	83.1	4.6	11.5
48°	3864.9	3842.9	3787.5	3490.8	2720.9	1757.0	869.2	370.6	75.0	4.6	11.5
49°	3712.5	3695.2	3662.8	3392.7	2630.8	1675.0	810.4	337.1	67.0	3.5	11.5
50°	3592.4	3574.0	3508.2	3227.6	2501.5	1571.1	745.7	303.6	57.7	2.3	10.4
51°	3512.8	3482.8	3378.9	3036.0	2313.4	1432.6	675.3	270.1	48.5	2.3	10.4
52°	3412.3	3367.3	3238.0	2864.0	2141.4	1294.1	599.1	236.6	42.7	2.3	10.4
53°	3202.2	3186.1	3058.0	2679.3	1969.4	1161.3	520.6	208.9	36.9	2.3	10.4
54°	3018.7	2994.5	2820.1	2423.0	1782.4	1013.5	439.8	184.7	31.2	2.3	10.4
55°	2820.1	2772.8	2618.1	2207.2	1563.0	877.3	362.5	159.3	25.4	2.3	9.2
56°	2569.6	2528.1	2361.9	1976.3	1361.0	738.8	303.6	130.4	19.6	2.3	9.2
57°	2264.9	2226.8	2098.7	1692.3	1150.9	603.7	247.0	105.0	15.0	2.3	9.2
58°	1970.5	1927.8	1781.2	1419.9	929.3	479.1	206.6	85.4	11.5	2.3	9.2
59°	1744.3	1686.5	1497.2	1192.5	727.3	363.6	163.9	68.1	8.1	2.3	9.2
60°	1556.1	1508.8	1312.5	992.8	570.3	267.8	121.2	51.9	4.6	2.3	9.2
62.5°	901.6	888.9	712.3	511.4	269.0	124.7	60.0	24.2	2.3	3.5	9.2
65°	269.0	234.3	182.4	108.5	69.3	41.6	21.9	8.1	1.2	3.5	8.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	8.1	8.1	8.1	8.1	8.1	8.1	4.6	2.3	1.2	3.5	8.1
70°	4.6	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	3.5	6.9
72.5°	3.5	3.5	3.5	3.5	2.3	2.3	2.3	1.2	2.3	3.5	5.8
75°	3.5	2.3	2.3	2.3	2.3	1.2	1.2	1.2	2.3	3.5	5.8
77.5°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	2.3	3.5	5.8
80°	2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	3.5	3.5
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):**

	112.5°	135°	157.5°	180°
0°	64.6	64.6	64.6	64.6
2.5°	62.3	61.2	60.0	60.0
5°	60.0	57.7	57.7	56.6
7.5°	56.6	54.3	54.3	54.3
10°	53.1	51.9	51.9	50.8
12.5°	48.5	48.5	48.5	48.5
15°	45.0	45.0	46.2	46.2
17.5°	40.4	41.6	43.9	45.0
20°	36.9	39.2	41.6	42.7
22.5°	34.6	36.9	40.4	41.6
25°	31.2	34.6	39.2	40.4
27.5°	28.9	33.5	36.9	39.2
30°	26.6	32.3	35.8	38.1
31°	26.6	31.2	35.8	38.1
32°	25.4	30.0	35.8	36.9
33°	25.4	30.0	35.8	36.9
34°	24.2	30.0	34.6	36.9
35°	24.2	30.0	34.6	36.9
36°	23.1	28.9	34.6	36.9
37°	23.1	28.9	34.6	36.9
38°	21.9	28.9	34.6	36.9
39°	21.9	28.9	34.6	36.9
40°	21.9	28.9	34.6	36.9
41°	20.8	28.9	34.6	36.9
42°	20.8	28.9	34.6	36.9
43°	20.8	27.7	34.6	36.9
44°	20.8	27.7	34.6	36.9
45°	19.6	27.7	34.6	36.9
46°	19.6	27.7	34.6	36.9
47°	19.6	27.7	34.6	36.9
48°	19.6	27.7	34.6	36.9
49°	19.6	27.7	34.6	36.9
50°	18.5	26.6	34.6	36.9
51°	18.5	26.6	34.6	36.9
52°	18.5	26.6	34.6	36.9
53°	18.5	26.6	34.6	36.9
54°	17.3	26.6	34.6	36.9
55°	17.3	26.6	34.6	36.9
56°	17.3	26.6	34.6	35.8
57°	17.3	26.6	33.5	35.8
58°	17.3	25.4	33.5	35.8
59°	17.3	25.4	33.5	35.8
60°	17.3	25.4	33.5	35.8
62.5°	16.2	25.4	32.3	34.6
65°	15.0	23.1	32.3	33.5



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
67.5°	15.0	21.9	30.0	32.3
70°	13.9	20.8	28.9	31.2
72.5°	11.5	19.6	26.6	28.9
75°	10.4	17.3	24.2	26.6
77.5°	9.2	15.0	21.9	23.1
80°	8.1	12.7	18.5	20.8
82.5°	5.8	9.2	15.0	16.2
85°	4.6	6.9	10.4	11.5
87.5°	3.5	3.5	5.8	5.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)