

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: P1319327

Luminaire Tested: LDSQA3D17R159835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

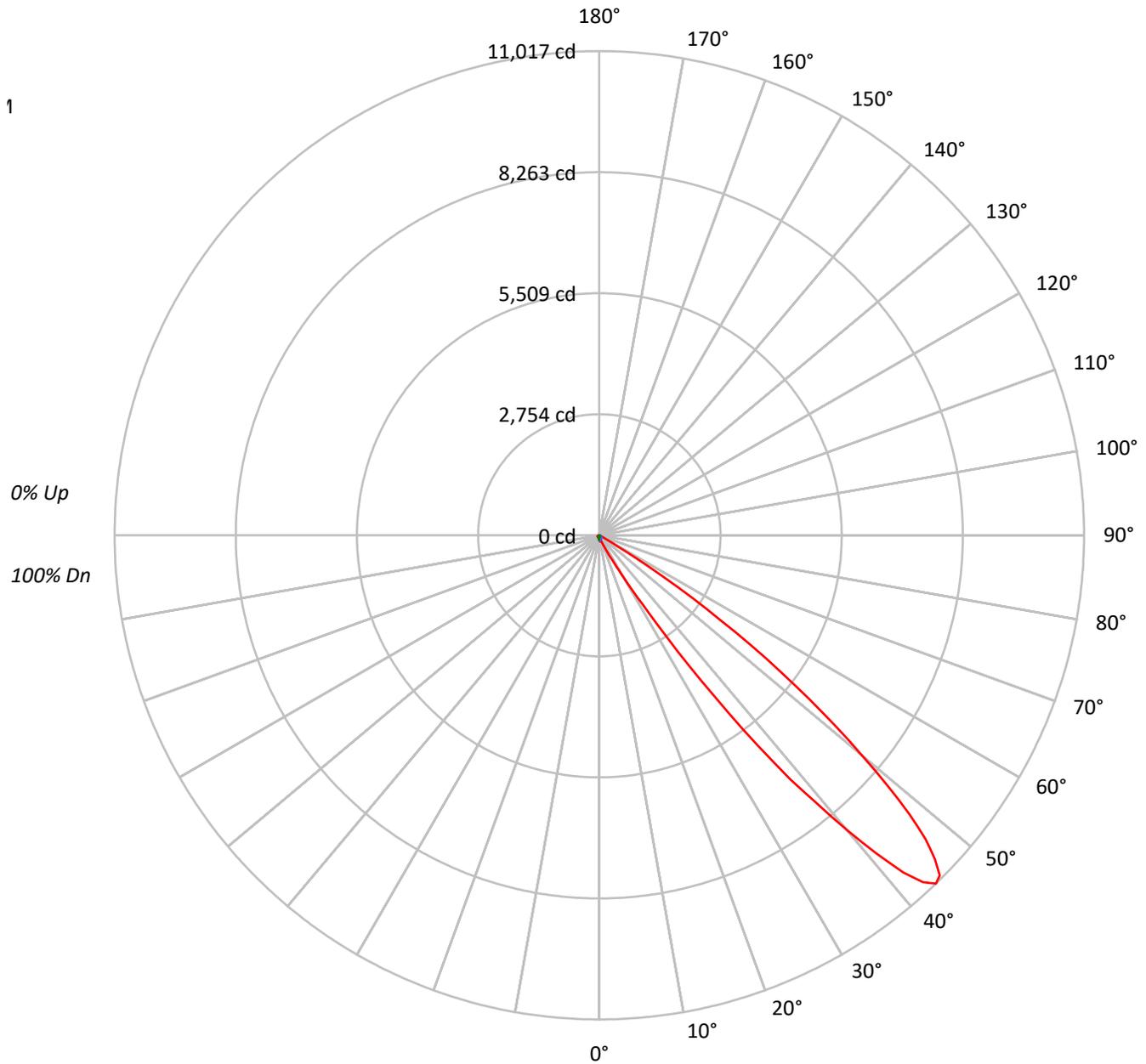
Test Method: LM-79-2019  
Report Number: P1319327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159835DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1230.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
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 (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	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	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	53	53	53	53	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	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	47	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	31	26	37	31	26	26	26	26	24
9	52	37	28	22	50	37	28	22	35	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	23	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	18807	18807	18807	18807	18807
5°	23322	20780	16960	14833	14626
10°	22944	17803	13081	11577	11804
15°	19024	12677	9396	9628	10270
20°	33045	10117	7184	8321	9439
25°	73654	12124	5834	7696	8855
30°	220244	14875	5131	7557	9267
35°	847813	16757	4646	7737	9797
40°	1967856	14613	4406	8004	10477
45°	2665370	11058	3873	8671	11350
50°	2089888	6564	3939	9190	12486
55°	1003112	2943	3693	9939	13632
60°	91657	413	3376	10574	15224
65°	9984	0	3016	11003	16504
70°	2467	0	3726	11733	17926
75°	2462	799	4924	13042	20428
80°	2479	2479	6050	13389	21919
85°	2371	2371	9683	12054	24305

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2665370 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.3	0.8
10°-20°	19.4	1.6
20°-30°	46.5	3.8
30°-40°	254.4	20.7
40°-50°	616.1	50.1
50°-60°	245.8	20.0
60°-70°	21.2	1.7
70°-80°	12.0	1.0
80°-90°	5.3	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°	75.2	6.1
0°-40°	329.6	26.8
0°-60°	1191.5	96.9
0°-90°	1230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	109	109	109	109	109	
5°	135	120	98	86	85	13
15°	107	71	53	54	58	37
25°	388	64	31	40	47	234
35°	4032	80	22	37	47	2849
45°	10943	45	16	36	47	7720
55°	3341	10	12	33	45	3112
65°	24	0	7	27	40	63
75°	4	1	7	20	31	4
85°	1	1	5	6	12	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2
2.5°	122.6	122.6	123.9	122.6	122.6	122.6	122.6	121.4	121.4	121.4	117.7
5°	134.9	134.9	134.9	134.9	133.7	133.7	133.7	132.5	132.5	131.2	120.2
7.5°	139.8	139.8	138.6	138.6	137.4	137.4	136.1	134.9	133.7	132.5	115.3
10°	131.2	131.2	131.2	130.0	130.0	128.8	127.5	126.3	125.1	122.6	101.8
12.5°	116.5	116.5	117.7	116.5	115.3	114.1	111.6	110.4	109.2	106.7	84.6
15°	106.7	106.7	106.7	105.5	104.2	101.8	100.6	98.1	96.9	93.2	71.1
17.5°	136.1	136.1	134.9	132.5	127.5	123.9	117.7	112.8	106.7	99.3	61.3
20°	180.3	180.3	177.8	175.4	169.2	163.1	153.3	144.7	134.9	126.3	55.2
22.5°	261.2	264.9	257.5	249.0	240.4	225.7	212.2	198.7	181.5	166.8	56.4
25°	387.6	391.2	387.6	367.9	352.0	332.4	306.6	279.6	250.2	223.2	63.8
27.5°	627.9	630.4	624.3	576.4	550.7	499.2	453.8	409.6	360.6	311.5	69.9
30°	1107.5	1108.7	1069.4	973.8	889.2	776.3	680.7	588.7	511.4	432.9	74.8
31°	1458.2	1423.9	1340.5	1225.2	1090.3	938.2	807.0	688.0	572.7	488.1	76.0
32°	1851.9	1847.0	1708.4	1508.5	1328.2	1138.1	940.7	788.6	656.1	540.9	77.3
33°	2373.1	2375.6	2157.3	1921.8	1626.2	1371.1	1112.4	903.9	744.4	603.4	79.7
34°	3187.5	2996.2	2739.8	2421.0	2018.7	1634.8	1298.8	1037.6	824.2	663.5	79.7
35°	4032.5	3839.9	3557.9	3074.6	2522.8	1985.6	1520.8	1181.0	919.8	728.5	79.7
36°	4979.3	4816.2	4389.4	3772.5	3068.5	2316.7	1756.2	1346.6	1014.3	787.4	78.5
37°	6002.1	5763.0	5289.6	4616.3	3674.4	2782.8	2043.2	1511.0	1108.7	851.1	76.0
38°	7040.9	6825.1	6227.8	5412.2	4398.0	3274.6	2330.2	1669.2	1195.8	899.0	72.4
39°	7828.3	7710.5	7118.2	6206.9	4975.6	3740.6	2625.8	1838.4	1287.7	946.8	68.7
40°	8753.0	8562.9	8001.2	6874.1	5658.7	4215.2	2915.2	1988.0	1363.8	984.8	65.0
41°	9596.8	9356.4	8647.5	7558.5	6205.7	4642.0	3189.9	2142.6	1425.1	1006.9	62.5
42°	10320.4	10040.7	9300.0	8144.7	6663.2	4983.0	3409.5	2252.9	1482.7	1025.3	58.9
43°	10788.9	10547.3	9818.8	8585.0	7054.4	5295.7	3614.3	2368.2	1518.3	1037.6	54.0
44°	11017.0	10772.9	10067.7	8860.9	7294.8	5483.3	3746.7	2447.9	1557.6	1053.5	50.3
45°	10943.4	10695.7	10013.8	8865.8	7369.6	5550.8	3803.1	2483.5	1578.4	1068.2	45.4
46°	10606.1	10432.0	9745.2	8635.3	7227.3	5478.4	3771.3	2456.5	1571.1	1068.2	40.5
47°	10132.7	9934.0	9280.4	8239.1	6882.7	5292.0	3642.5	2374.4	1525.7	1043.7	35.6
48°	9487.6	9318.4	8631.6	7610.0	6354.1	4886.1	3351.8	2240.7	1454.5	995.9	30.7
49°	8678.2	8442.7	7803.7	6805.4	5664.9	4309.7	2970.4	2015.0	1340.5	928.4	27.0
50°	7800.1	7509.4	7016.4	5999.7	4952.3	3695.2	2468.8	1703.5	1179.8	840.1	24.5
51°	6940.3	6644.8	6175.1	5310.4	4191.9	3066.1	1991.7	1360.1	971.3	718.7	20.8
52°	6048.7	5801.0	5274.9	4595.4	3588.5	2484.7	1659.4	1150.4	807.0	603.4	17.2
53°	5160.8	4991.6	4491.2	3803.1	2883.3	2029.7	1355.2	984.8	704.0	516.3	13.5
54°	4271.6	4086.5	3706.3	3093.0	2324.1	1601.7	1149.2	824.2	610.8	450.1	12.3
55°	3340.8	3245.1	2894.4	2358.4	1761.1	1277.9	932.1	708.9	511.4	376.5	9.8
56°	2573.0	2465.1	2145.0	1710.9	1308.6	1000.8	754.3	578.9	432.9	315.2	7.4
57°	1685.1	1574.7	1362.6	1194.5	952.9	729.7	576.4	456.2	352.0	261.2	6.1
58°	995.9	895.3	862.2	735.9	635.3	495.5	425.6	339.7	260.0	206.0	3.7
59°	457.5	464.8	413.3	387.6	352.0	315.2	258.8	226.9	177.8	148.4	2.5
60°	266.1	251.4	245.3	219.5	195.0	172.9	155.8	137.4	111.6	95.7	1.2
62.5°	90.8	87.1	89.5	80.9	76.0	73.6	67.5	57.6	47.8	39.2	0.0
65°	24.5	24.5	23.3	22.1	20.8	19.6	18.4	15.9	14.7	12.3	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	8.6	8.6	7.4	7.4	6.1	6.1	4.9	4.9	3.7	3.7	0.0
70°	4.9	4.9	4.9	3.7	3.7	3.7	2.5	2.5	2.5	1.2	0.0
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	1.2	1.2
75°	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	109.2	109.2	109.2	109.2	109.2	109.2
2.5°	112.8	107.9	101.8	98.1	96.9	95.7
5°	107.9	98.1	90.8	85.8	84.6	84.6
7.5°	96.9	85.8	78.5	76.0	74.8	74.8
10°	84.6	74.8	68.7	66.2	67.5	67.5
12.5°	71.1	62.5	60.1	60.1	61.3	62.5
15°	57.6	52.7	52.7	54.0	56.4	57.6
17.5°	47.8	45.4	46.6	49.1	51.5	54.0
20°	39.2	39.2	41.7	45.4	49.1	51.5
22.5°	33.1	34.3	38.0	41.7	46.6	49.1
25°	28.2	30.7	34.3	40.5	45.4	46.6
27.5°	24.5	28.2	33.1	39.2	44.2	46.6
30°	20.8	25.8	31.9	38.0	44.2	46.6
31°	19.6	24.5	30.7	38.0	44.2	46.6
32°	18.4	24.5	30.7	38.0	44.2	46.6
33°	17.2	23.3	30.7	36.8	44.2	46.6
34°	15.9	23.3	30.7	38.0	44.2	46.6
35°	14.7	22.1	29.4	36.8	42.9	46.6
36°	13.5	22.1	29.4	36.8	44.2	46.6
37°	12.3	22.1	29.4	36.8	42.9	46.6
38°	12.3	20.8	28.2	36.8	42.9	46.6
39°	11.0	19.6	28.2	36.8	42.9	46.6
40°	9.8	19.6	27.0	35.6	42.9	46.6
41°	8.6	18.4	27.0	35.6	42.9	46.6
42°	7.4	18.4	27.0	35.6	42.9	46.6
43°	6.1	17.2	25.8	35.6	42.9	46.6
44°	6.1	17.2	25.8	35.6	42.9	46.6
45°	4.9	15.9	24.5	35.6	42.9	46.6
46°	4.9	15.9	24.5	34.3	42.9	46.6
47°	3.7	15.9	24.5	34.3	42.9	46.6
48°	3.7	14.7	24.5	34.3	42.9	46.6
49°	2.5	14.7	24.5	34.3	42.9	46.6
50°	2.5	14.7	23.3	34.3	42.9	46.6
51°	2.5	14.7	23.3	34.3	42.9	46.6
52°	2.5	13.5	23.3	34.3	42.9	46.6
53°	2.5	13.5	23.3	34.3	42.9	46.6
54°	2.5	13.5	22.1	34.3	42.9	46.6
55°	2.5	12.3	22.1	33.1	42.9	45.4
56°	2.5	12.3	22.1	33.1	42.9	45.4
57°	2.5	12.3	20.8	33.1	42.9	45.4
58°	2.5	11.0	20.8	31.9	41.7	45.4
59°	2.5	11.0	19.6	31.9	41.7	44.2
60°	2.5	9.8	19.6	30.7	40.5	44.2
62.5°	2.5	8.6	17.2	29.4	39.2	41.7
65°	2.5	7.4	15.9	27.0	38.0	40.5



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.5	7.4	14.7	25.8	35.6	39.2
70°	2.5	7.4	13.5	23.3	34.3	35.6
72.5°	3.7	7.4	12.3	22.1	31.9	33.1
75°	4.9	7.4	11.0	19.6	29.4	30.7
77.5°	4.9	7.4	9.8	17.2	25.8	27.0
80°	4.9	6.1	8.6	13.5	20.8	22.1
82.5°	4.9	6.1	6.1	11.0	15.9	17.2
85°	3.7	4.9	4.9	6.1	11.0	12.3
87.5°	3.7	4.9	2.5	3.7	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)