

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: P1320232

Luminaire Tested: LDSQA3D17R259840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R259840DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

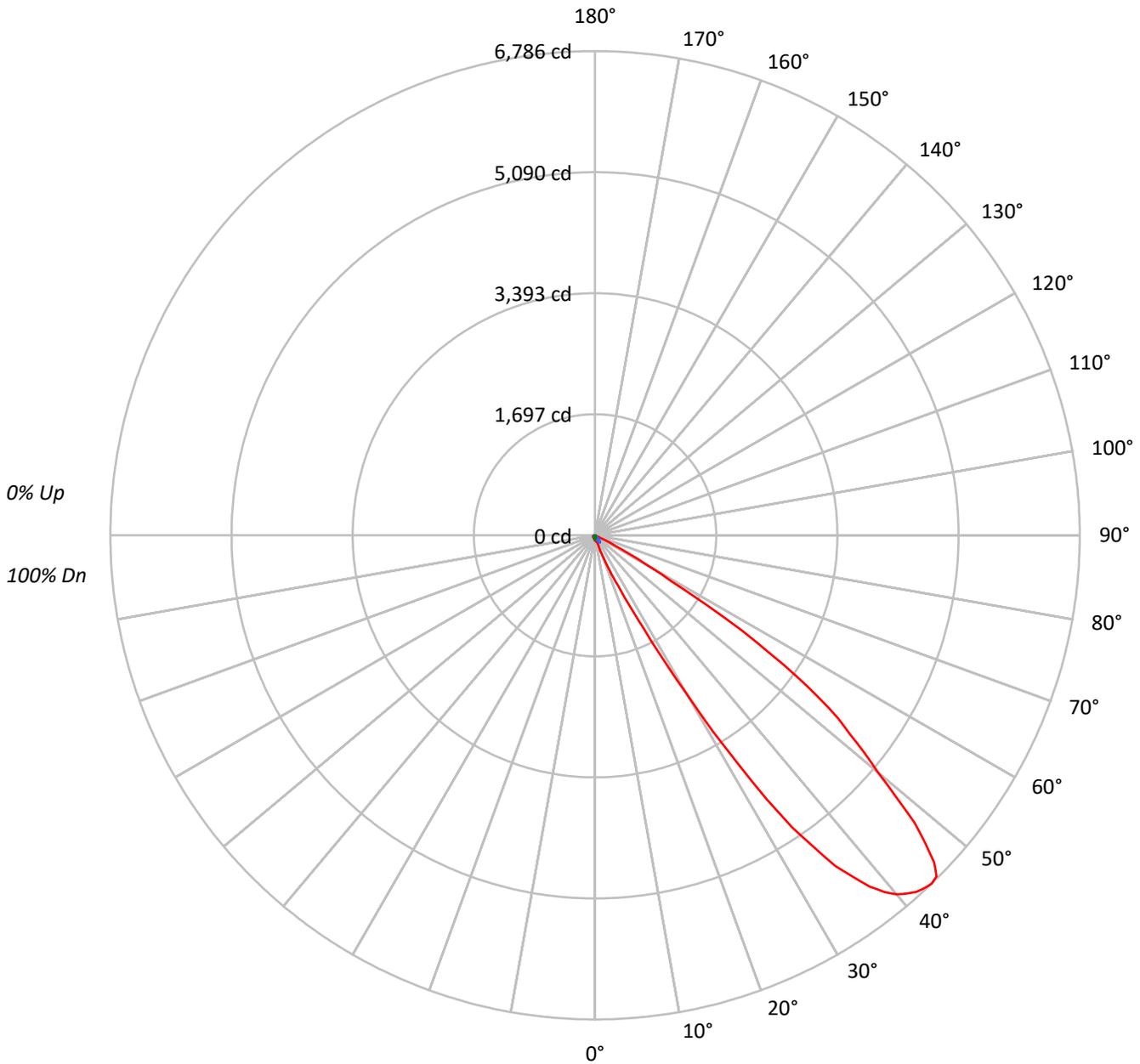
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1415.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37  
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	101	97	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	75	75	75	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	63	63	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	32	32	32	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	27	27	27	25
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	19	30	24	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	12434	12434	12434	12434	12434
5°	14211	13554	12050	10770	10546
10°	14148	12854	10230	8936	8936
15°	15762	11108	7988	7542	7988
20°	55679	10960	6158	6396	7074
25°	160192	13967	4960	5910	6860
30°	511085	21537	3957	5688	6940
35°	1119408	25398	3406	5487	7064
40°	1476690	22954	2810	5598	7554
45°	1646779	16075	2728	6065	8184
50°	1386194	8333	2679	6350	9002
55°	1036381	3363	2612	7116	10089
60°	320816	861	2583	7716	11160
65°	27385	0	3056	8110	12185
70°	1863	604	3122	9416	13797
75°	1664	799	4126	9915	15770
80°	1190	1190	6149	11108	18546
85°	2371	2371	9880	12251	19760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1646779 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.5	0.5
10°-20°	16.7	1.2
20°-30°	78.3	5.5
30°-40°	376.9	26.6
40°-50°	590.8	41.8
50°-60°	302.9	21.4
60°-70°	28.6	2.0
70°-80°	9.6	0.7
80°-90°	4.8	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°	101.4	7.2
0°-40°	478.3	33.8
0°-60°	1372.0	97.0
0°-90°	1415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	82	78	70	62	61	8
15°	88	62	45	42	45	37
25°	843	74	26	31	36	523
35°	5324	121	16	26	34	3232
45°	6761	66	11	25	34	4947
55°	3452	11	9	24	34	2873
65°	67	0	8	20	30	211
75°	2	1	6	15	24	3
85°	1	1	5	6	10	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°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	78.4	78.4	78.4	78.4	78.4	78.4	77.2	77.2	78.4	77.2	77.2
5°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	80.9	80.9	80.9	78.4
7.5°	83.4	82.2	82.2	82.2	82.2	82.2	82.2	82.2	80.9	80.9	77.2
10°	80.9	80.9	80.9	80.9	79.7	79.7	79.7	78.4	78.4	78.4	73.5
12.5°	80.9	80.9	80.9	80.9	79.7	79.7	78.4	78.4	77.2	76.0	67.2
15°	88.4	88.4	88.4	87.2	85.9	84.7	83.4	82.2	80.9	78.4	62.3
17.5°	129.5	125.8	124.5	119.5	113.3	107.1	102.1	97.1	92.1	88.4	59.8
20°	303.8	302.6	296.3	281.4	265.2	246.5	227.9	206.7	176.8	156.9	59.8
22.5°	526.7	519.2	508.0	496.8	468.2	434.6	399.7	359.9	321.3	280.2	63.5
25°	843.0	860.4	823.1	793.2	743.4	682.4	616.4	561.6	491.8	427.1	73.5
27.5°	1465.6	1476.8	1403.3	1306.2	1190.4	1062.1	937.6	844.2	727.2	620.1	92.1
30°	2570.0	2581.2	2458.0	2251.3	2012.2	1801.8	1516.6	1266.3	1036.0	857.9	108.3
31°	3207.5	3120.4	2977.2	2776.7	2474.1	2156.6	1814.2	1511.6	1220.3	986.2	113.3
32°	3761.6	3754.2	3587.3	3283.5	2979.7	2587.5	2162.9	1768.1	1410.8	1115.7	117.0
33°	4415.4	4365.6	4130.2	3843.8	3441.6	3046.9	2499.0	2048.3	1606.3	1260.1	119.5
34°	4939.6	4805.1	4708.0	4380.5	3955.9	3452.8	2866.4	2344.6	1850.3	1399.6	120.8
35°	5324.3	5295.7	5106.4	4801.4	4369.3	3855.0	3262.3	2652.2	2054.5	1561.4	120.8
36°	5731.5	5643.1	5458.8	5182.4	4761.5	4229.8	3564.9	2918.7	2292.4	1707.1	119.5
37°	5986.8	5934.5	5751.4	5466.3	5054.1	4546.1	3903.6	3200.1	2481.6	1852.8	117.0
38°	6249.5	6143.7	5963.1	5690.4	5285.7	4808.8	4148.9	3416.7	2655.9	1981.1	113.3
39°	6431.3	6321.7	6137.4	5866.0	5470.0	4996.9	4343.1	3601.0	2807.9	2076.9	108.3
40°	6568.3	6462.4	6275.6	5996.7	5605.7	5145.0	4505.0	3764.1	2934.9	2160.4	102.1
41°	6652.9	6554.6	6369.0	6091.4	5699.1	5229.7	4610.9	3870.0	3020.8	2216.4	95.9
42°	6723.9	6623.0	6433.8	6149.9	5756.4	5301.9	4675.6	3937.2	3079.3	2245.0	90.9
43°	6763.7	6662.9	6478.6	6188.5	5791.3	5335.5	4710.5	3968.3	3099.2	2241.3	82.2
44°	6786.2	6681.6	6496.0	6205.9	5806.2	5344.3	4713.0	3962.1	3085.5	2211.4	74.7
45°	6761.3	6657.9	6478.6	6188.5	5780.1	5316.9	4688.1	3928.5	3033.2	2152.9	66.0
46°	6599.4	6519.7	6355.3	6088.9	5697.9	5247.1	4624.5	3863.8	2952.3	2080.7	56.0
47°	6314.2	6250.7	6091.4	5893.4	5539.7	5118.9	4507.5	3740.5	2839.0	1972.3	44.8
48°	6016.6	5923.3	5775.1	5572.1	5273.3	4888.5	4314.5	3559.9	2667.1	1830.4	39.8
49°	5577.1	5522.3	5391.6	5165.0	4917.2	4578.5	4041.8	3328.3	2456.7	1676.0	34.9
50°	5173.7	5136.3	4953.3	4786.4	4523.7	4207.4	3672.0	3023.3	2195.2	1484.2	31.1
51°	4858.6	4813.8	4681.8	4473.9	4193.7	3826.4	3322.1	2627.3	1895.1	1256.4	24.9
52°	4529.9	4505.0	4388.0	4173.8	3898.6	3532.5	2982.2	2291.1	1603.8	1062.1	19.9
53°	4261.0	4224.9	4081.7	3891.1	3593.6	3215.0	2613.6	1978.6	1358.5	892.8	17.4
54°	3868.7	3853.8	3761.6	3562.4	3239.9	2827.8	2279.9	1666.0	1133.1	757.1	14.9
55°	3451.6	3401.8	3308.4	3150.3	2853.9	2469.2	1893.9	1380.9	916.4	637.5	11.2
56°	2943.6	2941.1	2774.2	2642.2	2379.5	1971.1	1512.9	1078.3	744.6	531.7	10.0
57°	2458.0	2379.5	2218.9	2088.1	1805.5	1495.4	1123.1	808.1	582.7	430.8	7.5
58°	1817.9	1776.9	1734.5	1542.8	1281.3	1059.6	801.9	567.8	430.8	328.7	5.0
59°	1234.0	1232.7	1182.9	1037.2	886.6	659.9	500.6	386.0	296.3	241.6	3.7
60°	931.4	909.0	809.4	713.5	557.8	417.1	296.3	227.9	184.3	155.6	2.5
62.5°	326.2	338.7	297.6	246.5	188.0	154.4	118.3	95.9	78.4	63.5	0.0
65°	67.2	73.5	63.5	59.8	47.3	41.1	36.1	31.1	26.1	22.4	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°	8.7	7.5	7.5	7.5	6.2	6.2	6.2	6.2	5.0	5.0	1.2
70°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	1.2
72.5°	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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	0.0	0.0	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°	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	76.0	73.5	69.7	68.5	67.2	67.2
5°	74.7	69.7	66.0	62.3	61.0	61.0
7.5°	71.0	64.7	59.8	57.3	56.0	54.8
10°	67.2	58.5	53.5	51.1	51.1	51.1
12.5°	59.8	52.3	47.3	46.1	47.3	47.3
15°	53.5	44.8	42.3	42.3	43.6	44.8
17.5°	46.1	39.8	37.4	38.6	39.8	41.1
20°	41.1	33.6	33.6	34.9	38.6	38.6
22.5°	36.1	29.9	29.9	33.6	36.1	37.4
25°	32.4	26.1	27.4	31.1	34.9	36.1
27.5°	27.4	22.4	24.9	29.9	33.6	34.9
30°	23.7	19.9	23.7	28.6	32.4	34.9
31°	22.4	18.7	23.7	27.4	32.4	34.9
32°	19.9	18.7	22.4	27.4	32.4	33.6
33°	18.7	17.4	22.4	27.4	32.4	33.6
34°	17.4	16.2	21.2	27.4	32.4	33.6
35°	14.9	16.2	21.2	26.1	31.1	33.6
36°	13.7	14.9	21.2	26.1	31.1	33.6
37°	12.5	14.9	19.9	26.1	31.1	33.6
38°	11.2	13.7	19.9	26.1	31.1	33.6
39°	10.0	13.7	18.7	26.1	31.1	33.6
40°	8.7	12.5	18.7	24.9	31.1	33.6
41°	8.7	12.5	18.7	24.9	31.1	33.6
42°	7.5	12.5	18.7	24.9	31.1	33.6
43°	6.2	11.2	18.7	24.9	31.1	33.6
44°	5.0	11.2	17.4	24.9	31.1	33.6
45°	5.0	11.2	17.4	24.9	31.1	33.6
46°	3.7	10.0	17.4	24.9	31.1	33.6
47°	2.5	10.0	17.4	23.7	31.1	33.6
48°	2.5	10.0	17.4	23.7	31.1	33.6
49°	2.5	10.0	16.2	23.7	31.1	33.6
50°	2.5	10.0	16.2	23.7	31.1	33.6
51°	1.2	8.7	16.2	23.7	31.1	33.6
52°	1.2	8.7	16.2	23.7	31.1	34.9
53°	1.2	8.7	16.2	23.7	31.1	33.6
54°	1.2	8.7	14.9	23.7	31.1	33.6
55°	1.2	8.7	14.9	23.7	31.1	33.6
56°	1.2	7.5	14.9	22.4	31.1	33.6
57°	2.5	7.5	14.9	22.4	31.1	32.4
58°	2.5	7.5	14.9	22.4	29.9	32.4
59°	2.5	7.5	14.9	22.4	29.9	32.4
60°	2.5	7.5	13.7	22.4	29.9	32.4
62.5°	2.5	7.5	13.7	21.2	28.6	31.1
65°	2.5	7.5	12.5	19.9	28.6	29.9



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.5	6.2	12.5	18.7	27.4	28.6
70°	3.7	6.2	11.2	18.7	26.1	27.4
72.5°	3.7	6.2	11.2	16.2	23.7	26.1
75°	3.7	6.2	10.0	14.9	22.4	23.7
77.5°	3.7	6.2	8.7	13.7	19.9	21.2
80°	5.0	6.2	7.5	11.2	17.4	18.7
82.5°	5.0	6.2	6.2	8.7	13.7	14.9
85°	3.7	5.0	5.0	6.2	8.7	10.0
87.5°	3.7	5.0	3.7	2.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)