

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: P1319502

Luminaire Tested: LDSQA3D20R259835D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

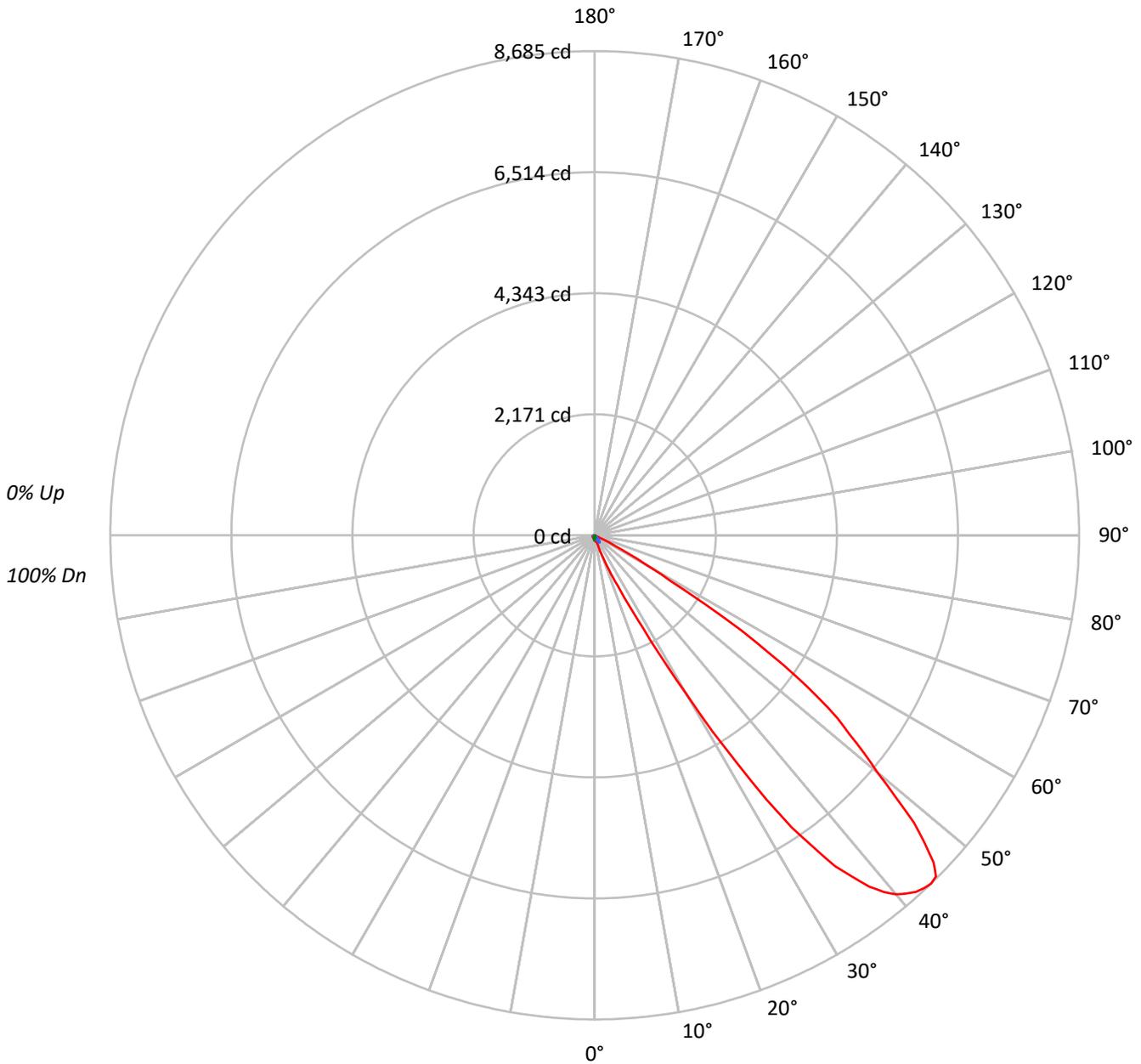
Test Method: LM-79-2019  
Report Number: P1319502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R259835D010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1811.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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				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	100	100	100	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87	87	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42	42	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35	35	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	29	29	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	25	25	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17	17	17	17

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

	0°	45°	90°	135°	180°
0°	15913	15913	15913	15913	15913
5°	18187	17357	15421	13779	13502
10°	18118	16439	13098	11420	11420
15°	20166	14210	10234	9664	10234
20°	71258	14021	7881	8174	9054
25°	205020	17863	6366	7563	8779
30°	654129	27563	5071	7298	8869
35°	1432694	32504	4352	7043	9041
40°	1889933	29384	3575	7172	9667
45°	2107643	20581	3483	7770	10473
50°	1774131	10664	3403	8118	11521
55°	1326433	4294	3363	9098	12911
60°	410579	1102	3307	9886	14260
65°	35087	0	3912	10392	15567
70°	2417	806	4028	12035	17674
75°	2129	1065	5323	12709	20162
80°	1587	1587	7934	14183	23704
85°	3162	3162	12647	15808	25096

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2107643 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.3	0.5
10°-20°	21.3	1.2
20°-30°	100.2	5.5
30°-40°	482.4	26.6
40°-50°	756.1	41.8
50°-60°	387.6	21.4
60°-70°	36.6	2.0
70°-80°	12.3	0.7
80°-90°	6.2	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°	129.8	7.2
0°-40°	612.2	33.8
0°-60°	1755.9	97.0
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	105	100	89	80	78	10
15°	113	80	57	54	57	48
25°	1079	94	34	40	46	669
35°	6814	155	21	34	43	4137
45°	8654	84	14	32	43	6332
55°	4418	14	11	30	43	3678
65°	86	0	10	26	38	270
75°	3	2	8	19	30	4
85°	2	2	6	8	13	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°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
2.5°	100.4	100.4	100.4	100.4	100.4	100.4	98.8	98.8	100.4	98.8	98.8
5°	105.2	105.2	105.2	105.2	105.2	105.2	105.2	103.6	103.6	103.6	100.4
7.5°	106.8	105.2	105.2	105.2	105.2	105.2	105.2	105.2	103.6	103.6	98.8
10°	103.6	103.6	103.6	103.6	102.0	102.0	102.0	100.4	100.4	100.4	94.0
12.5°	103.6	103.6	103.6	103.6	102.0	102.0	100.4	100.4	98.8	97.2	86.1
15°	113.1	113.1	113.1	111.6	110.0	108.4	106.8	105.2	103.6	100.4	79.7
17.5°	165.7	161.0	159.4	153.0	145.0	137.1	130.7	124.3	117.9	113.1	76.5
20°	388.8	387.3	379.3	360.2	339.4	315.5	291.6	264.5	226.3	200.8	76.5
22.5°	674.1	664.5	650.2	635.9	599.2	556.2	511.6	460.6	411.2	358.6	81.3
25°	1078.9	1101.2	1053.4	1015.1	951.4	873.3	788.9	718.7	629.5	546.6	94.0
27.5°	1875.7	1890.1	1796.0	1671.7	1523.5	1359.4	1200.0	1080.5	930.7	793.6	117.9
30°	3289.3	3303.6	3145.8	2881.3	2575.3	2306.0	1941.1	1620.7	1325.9	1098.0	138.6
31°	4105.2	3993.7	3810.4	3553.8	3166.6	2760.2	2321.9	1934.7	1561.8	1262.2	145.0
32°	4814.4	4804.8	4591.3	4202.4	3813.6	3311.6	2768.1	2263.0	1805.6	1427.9	149.8
33°	5651.0	5587.3	5286.1	4919.6	4404.8	3899.6	3198.4	2621.5	2055.8	1612.8	153.0
34°	6322.0	6149.8	6025.5	5606.4	5063.0	4419.2	3668.6	3000.8	2368.1	1791.2	154.6
35°	6814.4	6777.7	6535.5	6145.1	5592.1	4933.9	4175.3	3394.4	2629.5	1998.4	154.6
36°	7335.5	7222.4	6986.5	6632.7	6094.1	5413.6	4562.6	3735.5	2933.9	2184.9	153.0
37°	7662.2	7595.3	7361.0	6996.1	6468.6	5818.4	4996.1	4095.6	3176.1	2371.3	149.8
38°	7998.5	7863.0	7631.9	7282.9	6765.0	6154.6	5310.0	4372.9	3399.2	2535.5	145.0
39°	8231.1	8090.9	7855.0	7507.6	7000.8	6395.3	5558.6	4608.8	3593.7	2658.2	138.6
40°	8406.4	8271.0	8031.9	7675.0	7174.6	6584.9	5765.8	4817.6	3756.2	2765.0	130.7
41°	8514.8	8388.9	8151.5	7796.1	7294.1	6693.3	5901.2	4953.0	3866.2	2836.7	122.7
42°	8605.6	8476.6	8234.3	7871.0	7367.4	6785.7	5984.1	5039.1	3941.1	2873.3	116.3
43°	8656.6	8527.6	8291.7	7920.4	7412.0	6828.7	6028.7	5078.9	3966.6	2868.5	105.2
44°	8685.3	8551.5	8314.0	7942.7	7431.1	6839.9	6031.9	5071.0	3949.0	2830.3	95.6
45°	8653.5	8521.2	8291.7	7920.4	7397.7	6804.8	6000.0	5027.9	3882.1	2755.4	84.5
46°	8446.3	8344.3	8133.9	7792.9	7292.5	6715.6	5918.8	4945.1	3778.5	2663.0	71.7
47°	8081.3	8000.1	7796.1	7542.7	7090.1	6551.4	5769.0	4787.3	3633.5	2524.3	57.4
48°	7700.5	7580.9	7391.3	7131.5	6749.1	6256.6	5522.0	4556.2	3413.6	2342.6	51.0
49°	7137.9	7067.8	6900.4	6610.4	6293.3	5859.8	5172.9	4259.8	3144.2	2145.0	44.6
50°	6621.6	6573.8	6339.5	6125.9	5789.7	5384.9	4699.6	3869.4	2809.6	1899.6	39.8
51°	6218.4	6161.0	5992.1	5725.9	5367.4	4897.2	4251.8	3362.6	2425.5	1608.0	31.9
52°	5797.7	5765.8	5616.0	5341.9	4989.7	4521.1	3816.8	2932.3	2052.6	1359.4	25.5
53°	5453.4	5407.2	5223.9	4980.1	4599.2	4114.8	3345.0	2532.3	1738.7	1142.6	22.3
54°	4951.4	4932.3	4814.4	4559.4	4146.6	3619.2	2918.0	2132.3	1450.2	968.9	19.1
55°	4417.6	4353.8	4234.3	4031.9	3652.6	3160.2	2423.9	1767.3	1172.9	815.9	14.3
56°	3767.4	3764.2	3550.6	3381.7	3045.4	2522.7	1936.3	1380.1	953.0	680.5	12.7
57°	3145.8	3045.4	2839.9	2672.5	2310.8	1914.0	1437.5	1034.3	745.8	551.4	9.6
58°	2326.7	2274.1	2219.9	1974.5	1639.9	1356.2	1026.3	726.7	551.4	420.7	6.4
59°	1579.3	1577.7	1514.0	1327.5	1134.7	844.6	640.6	494.0	379.3	309.2	4.8
60°	1192.0	1163.4	1035.9	913.2	713.9	533.9	379.3	291.6	235.9	199.2	3.2
62.5°	417.5	433.5	380.9	315.5	240.6	197.6	151.4	122.7	100.4	81.3	0.0
65°	86.1	94.0	81.3	76.5	60.6	52.6	46.2	39.8	33.5	28.7	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°	11.2	9.6	9.6	9.6	8.0	8.0	8.0	8.0	6.4	6.4	1.6
70°	4.8	4.8	4.8	4.8	4.8	4.8	3.2	3.2	3.2	3.2	1.6
72.5°	4.8	4.8	4.8	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
85°	1.6	1.6	1.6	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	92.4	92.4	92.4	92.4	92.4	92.4
2.5°	97.2	94.0	89.2	87.7	86.1	86.1
5°	95.6	89.2	84.5	79.7	78.1	78.1
7.5°	90.8	82.9	76.5	73.3	71.7	70.1
10°	86.1	74.9	68.5	65.3	65.3	65.3
12.5°	76.5	66.9	60.6	59.0	60.6	60.6
15°	68.5	57.4	54.2	54.2	55.8	57.4
17.5°	59.0	51.0	47.8	49.4	51.0	52.6
20°	52.6	43.0	43.0	44.6	49.4	49.4
22.5°	46.2	38.2	38.2	43.0	46.2	47.8
25°	41.4	33.5	35.1	39.8	44.6	46.2
27.5°	35.1	28.7	31.9	38.2	43.0	44.6
30°	30.3	25.5	30.3	36.7	41.4	44.6
31°	28.7	23.9	30.3	35.1	41.4	44.6
32°	25.5	23.9	28.7	35.1	41.4	43.0
33°	23.9	22.3	28.7	35.1	41.4	43.0
34°	22.3	20.7	27.1	35.1	41.4	43.0
35°	19.1	20.7	27.1	33.5	39.8	43.0
36°	17.5	19.1	27.1	33.5	39.8	43.0
37°	15.9	19.1	25.5	33.5	39.8	43.0
38°	14.3	17.5	25.5	33.5	39.8	43.0
39°	12.7	17.5	23.9	33.5	39.8	43.0
40°	11.2	15.9	23.9	31.9	39.8	43.0
41°	11.2	15.9	23.9	31.9	39.8	43.0
42°	9.6	15.9	23.9	31.9	39.8	43.0
43°	8.0	14.3	23.9	31.9	39.8	43.0
44°	6.4	14.3	22.3	31.9	39.8	43.0
45°	6.4	14.3	22.3	31.9	39.8	43.0
46°	4.8	12.7	22.3	31.9	39.8	43.0
47°	3.2	12.7	22.3	30.3	39.8	43.0
48°	3.2	12.7	22.3	30.3	39.8	43.0
49°	3.2	12.7	20.7	30.3	39.8	43.0
50°	3.2	12.7	20.7	30.3	39.8	43.0
51°	1.6	11.2	20.7	30.3	39.8	43.0
52°	1.6	11.2	20.7	30.3	39.8	44.6
53°	1.6	11.2	20.7	30.3	39.8	43.0
54°	1.6	11.2	19.1	30.3	39.8	43.0
55°	1.6	11.2	19.1	30.3	39.8	43.0
56°	1.6	9.6	19.1	28.7	39.8	43.0
57°	3.2	9.6	19.1	28.7	39.8	41.4
58°	3.2	9.6	19.1	28.7	38.2	41.4
59°	3.2	9.6	19.1	28.7	38.2	41.4
60°	3.2	9.6	17.5	28.7	38.2	41.4
62.5°	3.2	9.6	17.5	27.1	36.7	39.8
65°	3.2	9.6	15.9	25.5	36.7	38.2



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.2	8.0	15.9	23.9	35.1	36.7
70°	4.8	8.0	14.3	23.9	33.5	35.1
72.5°	4.8	8.0	14.3	20.7	30.3	33.5
75°	4.8	8.0	12.7	19.1	28.7	30.3
77.5°	4.8	8.0	11.2	17.5	25.5	27.1
80°	6.4	8.0	9.6	14.3	22.3	23.9
82.5°	6.4	8.0	8.0	11.2	17.5	19.1
85°	4.8	6.4	6.4	8.0	11.2	12.7
87.5°	4.8	6.4	4.8	3.2	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)