

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: P1324064

Luminaire Tested: LDSQA3D17R359030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

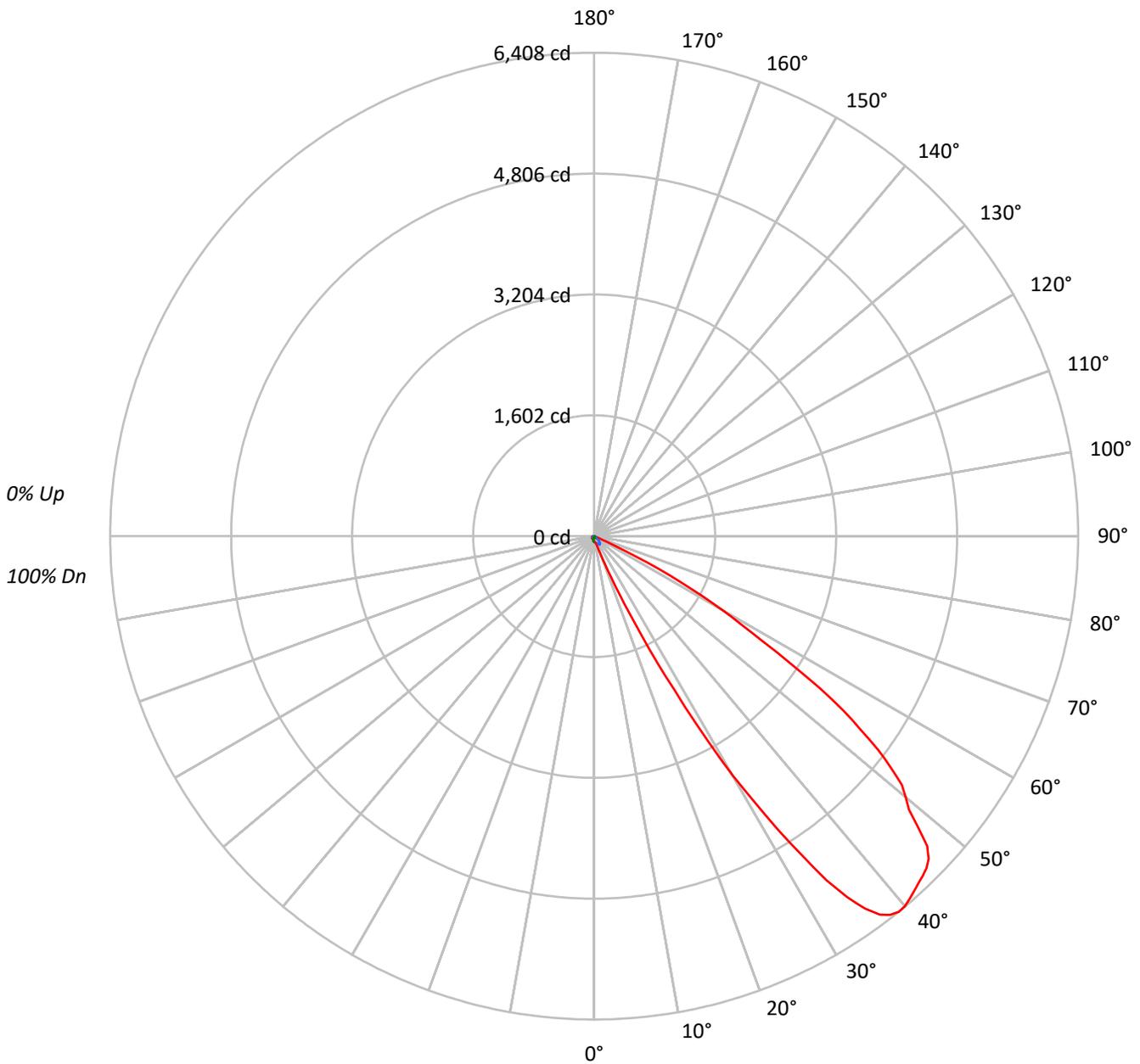
Test Method: LM-79-2019  
Report Number: P1324064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359030D2WDE010 3LSQCA45R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1596.0 lumens  
Efficiency: N/A  
Efficacy: 58.5 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.3  
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	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	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	38	50	43	37	48	42	37	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	26	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	22	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	12658	12658	12658	12658	12658
5°	13692	13450	12447	11203	10961
10°	14358	13098	11087	9566	9566
15°	20558	12837	8986	8220	8469
20°	51482	13727	7129	7129	7918
25°	239016	17520	5473	6575	7392
30°	726595	23784	4295	6026	7457
35°	1227978	27563	3637	5761	7274
40°	1439437	27203	2923	5823	7779
45°	1515915	19290	2460	6308	8427
50°	1442942	11575	2304	6564	9270
55°	1209091	4744	2582	7356	10809
60°	676904	999	2962	8439	11918
65°	116834	571	2934	9414	13489
70°	2165	705	3626	10172	15257
75°	1930	932	4791	11512	17234
80°	1389	1389	5752	12893	20034
85°	0	2766	11461	14227	22724

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1526643 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	0.4
10°-20°	18.8	1.2
20°-30°	97.9	6.1
30°-40°	422.9	26.5
40°-50°	603.3	37.8
50°-60°	373.6	23.4
60°-70°	56.9	3.6
70°-80°	10.6	0.7
80°-90°	5.3	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°	123.4	7.7
0°-40°	546.3	34.2
0°-60°	1523.2	95.4
0°-90°	1596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1596.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	79	78	72	65	63	8
15°	115	72	50	46	48	42
25°	1258	92	29	35	39	753
35°	5841	131	17	27	35	3507
45°	6224	79	10	26	35	4702
55°	4027	16	9	24	36	3430
65°	287	1	7	23	33	586
75°	3	1	7	17	26	3
85°	0	1	6	7	12	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
2.5°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	73.5	72.0
5°	79.2	79.2	77.8	77.8	77.8	77.8	77.8	77.8	74.9	72.0	67.7
7.5°	80.7	80.7	79.2	79.2	79.2	79.2	77.8	76.4	73.5	67.7	63.4
10°	82.1	82.1	82.1	82.1	80.7	79.2	77.8	74.9	70.6	63.4	59.1
12.5°	92.2	92.2	90.8	87.9	85.0	82.1	79.2	73.5	64.8	57.6	53.3
15°	115.3	113.8	110.9	106.6	100.9	93.6	87.9	72.0	59.1	50.4	47.5
17.5°	161.4	158.5	154.2	139.8	126.8	113.8	102.3	72.0	53.3	44.7	41.8
20°	280.9	282.4	252.1	217.6	188.7	157.0	128.2	74.9	47.5	38.9	37.5
22.5°	586.4	563.3	491.3	407.7	311.2	240.6	181.5	82.1	41.8	33.1	33.1
25°	1257.8	1169.9	995.5	752.1	530.2	376.0	263.7	92.2	37.5	28.8	30.3
27.5°	2296.5	2217.3	1867.2	1406.2	933.6	567.6	357.3	105.2	33.1	24.5	27.4
30°	3653.7	3434.7	2978.0	2305.2	1560.3	868.8	479.8	119.6	27.4	21.6	25.9
31°	4077.3	3976.4	3420.3	2666.8	1828.3	1031.6	531.6	123.9	25.9	21.6	24.5
32°	4580.1	4401.4	3902.9	3063.0	2100.6	1177.1	593.6	128.2	24.5	18.7	24.5
33°	5029.6	4856.7	4250.2	3411.7	2375.8	1342.8	659.9	129.7	21.6	18.7	23.1
34°	5502.2	5265.9	4665.1	3776.2	2658.1	1521.4	720.4	131.1	20.2	17.3	23.1
35°	5840.7	5604.4	5022.4	4064.3	2901.6	1679.9	789.5	131.1	18.7	17.3	21.6
36°	6102.9	5895.5	5330.7	4361.1	3143.7	1822.5	844.3	131.1	15.8	15.8	21.6
37°	6283.0	6085.7	5538.2	4616.1	3328.1	1949.3	893.3	131.1	14.4	15.8	21.6
38°	6370.9	6206.7	5738.4	4802.0	3506.7	2048.7	932.2	128.2	13.0	14.4	20.2
39°	6408.4	6274.4	5860.9	4959.0	3640.7	2135.2	961.0	125.3	11.5	14.4	20.2
40°	6402.6	6285.9	5930.1	5067.1	3748.8	2194.2	976.8	121.0	10.1	13.0	20.2
41°	6369.5	6268.6	5966.1	5159.3	3813.6	2234.6	981.1	116.7	8.6	13.0	18.7
42°	6332.0	6239.8	5977.6	5208.2	3855.4	2247.5	969.6	110.9	8.6	11.5	18.7
43°	6293.1	6208.1	5977.6	5224.1	3865.5	2238.9	950.9	100.9	7.2	11.5	18.7
44°	6261.4	6180.7	5958.9	5219.8	3843.9	2205.8	916.3	89.3	5.8	11.5	18.7
45°	6224.0	6144.7	5934.4	5192.4	3802.1	2149.6	873.1	79.2	4.3	10.1	18.7
46°	6157.7	6095.7	5891.2	5136.2	3735.8	2071.8	818.3	72.0	2.9	10.1	17.3
47°	6029.5	5976.2	5807.6	5052.6	3647.9	1979.6	762.1	64.8	2.9	10.1	17.3
48°	5771.6	5770.1	5640.5	4897.0	3508.2	1864.3	703.1	57.6	2.9	10.1	17.3
49°	5522.3	5496.4	5335.0	4623.3	3307.9	1726.0	641.1	51.9	1.4	10.1	17.3
50°	5385.5	5329.3	5064.2	4300.6	3051.5	1534.4	574.9	43.2	1.4	8.6	17.3
51°	5242.8	5162.1	4849.5	4009.6	2746.0	1350.0	502.8	34.6	1.4	8.6	15.8
52°	4984.9	4908.6	4558.5	3731.5	2449.2	1161.2	433.7	28.8	1.4	8.6	17.3
53°	4706.9	4597.4	4217.0	3426.1	2188.5	994.1	363.1	24.5	1.4	8.6	15.8
54°	4356.8	4307.8	3871.2	3051.5	1883.0	832.7	298.2	20.2	1.4	8.6	15.8
55°	4026.8	3954.8	3501.0	2668.2	1606.4	682.9	249.2	15.8	1.4	8.6	15.8
56°	3606.2	3498.1	3073.1	2316.7	1325.5	550.4	210.3	13.0	1.4	8.6	15.8
57°	3104.8	2989.5	2653.8	1926.3	1040.2	419.3	175.8	10.1	1.4	8.6	15.8
58°	2626.5	2527.0	2166.9	1486.8	783.8	291.0	145.5	7.2	1.4	7.2	15.8
59°	2269.2	2159.7	1802.4	1143.9	544.6	214.7	109.5	5.8	1.4	8.6	15.8
60°	1965.2	1824.0	1450.8	886.0	389.0	154.2	80.7	2.9	2.9	8.6	15.8
62.5°	1132.4	999.9	693.0	360.2	159.9	79.2	38.9	1.4	2.9	8.6	15.8
65°	286.7	255.0	165.7	77.8	44.7	27.4	14.4	1.4	2.9	7.2	14.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	10.1	10.1	10.1	8.6	7.2	5.8	2.9	1.4	2.9	7.2	14.4
70°	4.3	4.3	4.3	2.9	2.9	1.4	1.4	1.4	2.9	7.2	13.0
72.5°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	4.3	7.2	11.5
75°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	4.3	7.2	11.5
77.5°	2.9	2.9	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.8	10.1
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.8	8.6
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.8	7.2
85°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	4.3	5.8	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	5.8	4.3
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):**

	135°	157.5°	180°
0°	73.5	73.5	73.5
2.5°	69.2	69.2	69.2
5°	64.8	64.8	63.4
7.5°	60.5	59.1	59.1
10°	54.7	54.7	54.7
12.5°	50.4	50.4	50.4
15°	46.1	47.5	47.5
17.5°	41.8	44.7	44.7
20°	38.9	41.8	43.2
22.5°	36.0	38.9	40.3
25°	34.6	37.5	38.9
27.5°	31.7	36.0	38.9
30°	30.3	34.6	37.5
31°	30.3	34.6	36.0
32°	28.8	34.6	36.0
33°	28.8	34.6	36.0
34°	28.8	33.1	36.0
35°	27.4	33.1	34.6
36°	27.4	33.1	34.6
37°	27.4	33.1	36.0
38°	27.4	33.1	34.6
39°	25.9	33.1	34.6
40°	25.9	33.1	34.6
41°	25.9	33.1	34.6
42°	25.9	33.1	34.6
43°	25.9	33.1	34.6
44°	25.9	31.7	34.6
45°	25.9	31.7	34.6
46°	25.9	33.1	34.6
47°	25.9	33.1	36.0
48°	25.9	31.7	34.6
49°	24.5	31.7	34.6
50°	24.5	31.7	34.6
51°	24.5	33.1	36.0
52°	24.5	33.1	36.0
53°	24.5	33.1	36.0
54°	24.5	33.1	34.6
55°	24.5	33.1	36.0
56°	24.5	33.1	34.6
57°	24.5	33.1	34.6
58°	24.5	31.7	34.6
59°	24.5	31.7	34.6
60°	24.5	31.7	34.6
62.5°	23.1	31.7	34.6
65°	23.1	30.3	33.1



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	21.6	30.3	31.7
70°	20.2	28.8	30.3
72.5°	18.7	27.4	28.8
75°	17.3	24.5	25.9
77.5°	14.4	21.6	24.5
80°	13.0	18.7	20.2
82.5°	10.1	15.8	17.3
85°	7.2	11.5	11.5
87.5°	2.9	5.8	5.8
90°	0.0	0.0	0.0

(END OF REPORT)