

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: P1311653

Luminaire Tested: LDSQA3D17R359040DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

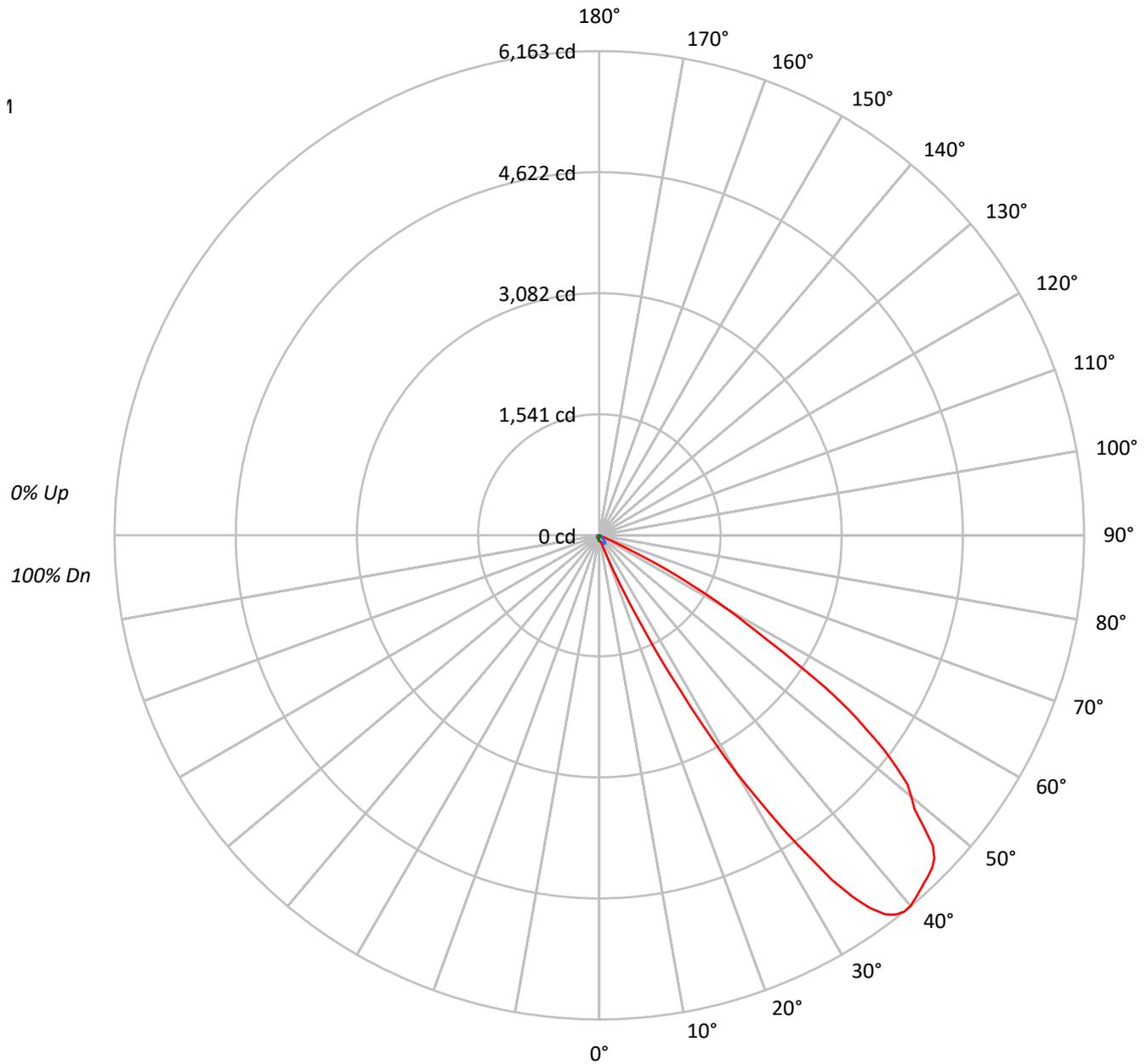
Test Method: LM-79-2019  
Report Number: P1311653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359040DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1535.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 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): 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	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°	12176	12176	12176	12176	12176
5°	13173	12931	11981	10788	10546
10°	13815	12609	10668	9216	9216
15°	19773	12356	8647	7899	8148
20°	49521	13214	6855	6855	7624
25°	229875	16855	5264	6328	7107
30°	698814	22870	4136	5787	7159
35°	1181051	26512	3490	5529	7001
40°	1384423	26169	2810	5598	7487
45°	1457972	18559	2363	6065	8111
50°	1387775	11146	2224	6323	8922
55°	1162881	4564	2492	7086	10389
60°	651002	964	2859	8129	11470
65°	112351	571	2812	9047	13000
70°	2115	705	3474	9769	14653
75°	1863	932	4591	11046	16569
80°	1389	1389	5455	12397	19241
85°	0	2766	10868	13635	21934

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1468282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	0.4
10°-20°	18.1	1.2
20°-30°	94.2	6.1
30°-40°	406.8	26.5
40°-50°	580.2	37.8
50°-60°	359.4	23.4
60°-70°	54.7	3.6
70°-80°	10.2	0.7
80°-90°	5.1	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°	118.7	7.7
0°-40°	525.4	34.2
0°-60°	1465.0	95.4
0°-90°	1535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	76	75	69	62	61	7
15°	111	69	48	44	46	40
25°	1210	89	28	33	37	724
35°	5618	126	17	26	33	3373
45°	5986	76	10	25	33	4522
55°	3873	15	8	24	35	3298
65°	276	1	7	22	32	563
75°	3	1	7	17	25	3
85°	0	1	6	7	11	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°	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
2.5°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	70.7	69.3
5°	76.2	76.2	74.8	74.8	74.8	74.8	74.8	74.8	72.1	69.3	65.1
7.5°	77.6	77.6	76.2	76.2	76.2	76.2	74.8	73.4	70.7	65.1	61.0
10°	79.0	79.0	79.0	79.0	77.6	76.2	74.8	72.1	67.9	61.0	56.8
12.5°	88.7	88.7	87.3	84.5	81.8	79.0	76.2	70.7	62.4	55.4	51.3
15°	110.9	109.5	106.7	102.5	97.0	90.1	84.5	69.3	56.8	48.5	45.7
17.5°	155.2	152.4	148.3	134.4	121.9	109.5	98.4	69.3	51.3	43.0	40.2
20°	270.2	271.6	242.5	209.2	181.5	151.0	123.3	72.1	45.7	37.4	36.0
22.5°	564.0	541.8	472.5	392.1	299.3	231.4	174.6	79.0	40.2	31.9	31.9
25°	1209.7	1125.2	957.5	723.3	509.9	361.7	253.6	88.7	36.0	27.7	29.1
27.5°	2208.8	2132.5	1795.8	1352.4	897.9	546.0	343.6	101.2	31.9	23.6	26.3
30°	3514.0	3303.4	2864.2	2217.1	1500.7	835.6	461.4	115.0	26.3	20.8	24.9
31°	3921.4	3824.4	3289.6	2564.9	1758.4	992.1	511.3	119.2	24.9	20.8	23.6
32°	4405.0	4233.2	3753.8	2945.9	2020.3	1132.1	570.9	123.3	23.6	18.0	23.6
33°	4837.4	4671.1	4087.7	3281.3	2285.0	1291.4	634.6	124.7	20.8	18.0	22.2
34°	5291.9	5064.6	4486.8	3631.8	2556.6	1463.3	692.8	126.1	19.4	16.6	22.2
35°	5617.5	5390.2	4830.4	3909.0	2790.7	1615.7	759.3	126.1	18.0	16.6	20.8
36°	5869.7	5670.1	5127.0	4194.4	3023.5	1752.9	812.0	126.1	15.2	15.2	20.8
37°	6042.9	5853.1	5326.5	4439.7	3200.9	1874.8	859.1	126.1	13.9	15.2	20.8
38°	6127.4	5969.4	5519.1	4618.4	3372.7	1970.4	896.5	123.3	12.5	13.9	19.4
39°	6163.4	6034.6	5636.9	4769.5	3501.6	2053.6	924.2	120.6	11.1	13.9	19.4
40°	6157.9	6045.7	5703.4	4873.4	3605.5	2110.4	939.5	116.4	9.7	12.5	19.4
41°	6126.0	6029.0	5738.0	4962.1	3667.9	2149.2	943.6	112.2	8.3	12.5	18.0
42°	6090.0	6001.3	5749.1	5009.2	3708.0	2161.6	932.6	106.7	8.3	11.1	18.0
43°	6052.6	5970.8	5749.1	5024.4	3717.7	2153.3	914.5	97.0	6.9	11.1	18.0
44°	6022.1	5944.5	5731.1	5020.3	3697.0	2121.5	881.3	85.9	5.5	11.1	18.0
45°	5986.1	5909.9	5707.6	4993.9	3656.8	2067.4	839.7	76.2	4.2	9.7	18.0
46°	5922.3	5862.8	5666.0	4939.9	3593.0	1992.6	787.1	69.3	2.8	9.7	16.6
47°	5799.0	5747.7	5585.6	4859.5	3508.5	1903.9	733.0	62.4	2.8	9.7	16.6
48°	5551.0	5549.6	5424.9	4709.9	3374.1	1793.1	676.2	55.4	2.8	9.7	16.6
49°	5311.3	5286.3	5131.1	4446.6	3181.5	1660.0	616.6	49.9	1.4	9.7	16.6
50°	5179.6	5125.6	4870.6	4136.2	2934.8	1475.7	552.9	41.6	1.4	8.3	16.6
51°	5042.4	4964.8	4664.2	3856.3	2641.1	1298.4	483.6	33.3	1.4	8.3	15.2
52°	4794.4	4721.0	4384.2	3588.9	2355.6	1116.8	417.1	27.7	1.4	8.3	16.6
53°	4527.0	4421.7	4055.8	3295.1	2104.8	956.1	349.2	23.6	1.4	8.3	15.2
54°	4190.3	4143.1	3723.3	2934.8	1811.1	800.9	286.8	19.4	1.4	8.3	15.2
55°	3872.9	3803.7	3367.2	2566.3	1545.0	656.8	239.7	15.2	1.4	8.3	15.2
56°	3468.3	3364.4	2955.6	2228.2	1274.8	529.3	202.3	12.5	1.4	8.3	15.2
57°	2986.1	2875.3	2552.4	1852.6	1000.5	403.2	169.1	9.7	1.4	8.3	15.2
58°	2526.1	2430.5	2084.0	1430.0	753.8	279.9	140.0	6.9	1.4	6.9	15.2
59°	2182.4	2077.1	1733.5	1100.2	523.8	206.5	105.3	5.5	1.4	8.3	15.2
60°	1890.0	1754.3	1395.4	852.2	374.1	148.3	77.6	2.8	2.8	8.3	15.2
62.5°	1089.1	961.7	666.5	346.4	153.8	76.2	37.4	1.4	2.8	8.3	15.2
65°	275.7	245.3	159.4	74.8	43.0	26.3	13.9	1.4	2.8	6.9	13.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	9.7	9.7	9.7	8.3	6.9	5.5	2.8	1.4	2.8	6.9	13.9
70°	4.2	4.2	4.2	2.8	2.8	1.4	1.4	1.4	2.8	6.9	12.5
72.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	6.9	11.1
75°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	6.9	11.1
77.5°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.5	9.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.5	8.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.5	6.9
85°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	4.2	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.5	4.2
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):**

	135°	157.5°	180°
0°	70.7	70.7	70.7
2.5°	66.5	66.5	66.5
5°	62.4	62.4	61.0
7.5°	58.2	56.8	56.8
10°	52.7	52.7	52.7
12.5°	48.5	48.5	48.5
15°	44.3	45.7	45.7
17.5°	40.2	43.0	43.0
20°	37.4	40.2	41.6
22.5°	34.6	37.4	38.8
25°	33.3	36.0	37.4
27.5°	30.5	34.6	37.4
30°	29.1	33.3	36.0
31°	29.1	33.3	34.6
32°	27.7	33.3	34.6
33°	27.7	33.3	34.6
34°	27.7	31.9	34.6
35°	26.3	31.9	33.3
36°	26.3	31.9	33.3
37°	26.3	31.9	34.6
38°	26.3	31.9	33.3
39°	24.9	31.9	33.3
40°	24.9	31.9	33.3
41°	24.9	31.9	33.3
42°	24.9	31.9	33.3
43°	24.9	31.9	33.3
44°	24.9	30.5	33.3
45°	24.9	30.5	33.3
46°	24.9	31.9	33.3
47°	24.9	31.9	34.6
48°	24.9	30.5	33.3
49°	23.6	30.5	33.3
50°	23.6	30.5	33.3
51°	23.6	31.9	34.6
52°	23.6	31.9	34.6
53°	23.6	31.9	34.6
54°	23.6	31.9	33.3
55°	23.6	31.9	34.6
56°	23.6	31.9	33.3
57°	23.6	31.9	33.3
58°	23.6	30.5	33.3
59°	23.6	30.5	33.3
60°	23.6	30.5	33.3
62.5°	22.2	30.5	33.3
65°	22.2	29.1	31.9



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	20.8	29.1	30.5
70°	19.4	27.7	29.1
72.5°	18.0	26.3	27.7
75°	16.6	23.6	24.9
77.5°	13.9	20.8	23.6
80°	12.5	18.0	19.4
82.5°	9.7	15.2	16.6
85°	6.9	11.1	11.1
87.5°	2.8	5.5	5.5
90°	0.0	0.0	0.0

(END OF REPORT)