

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: P1323626

Luminaire Tested: LDSQA3D05R359030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

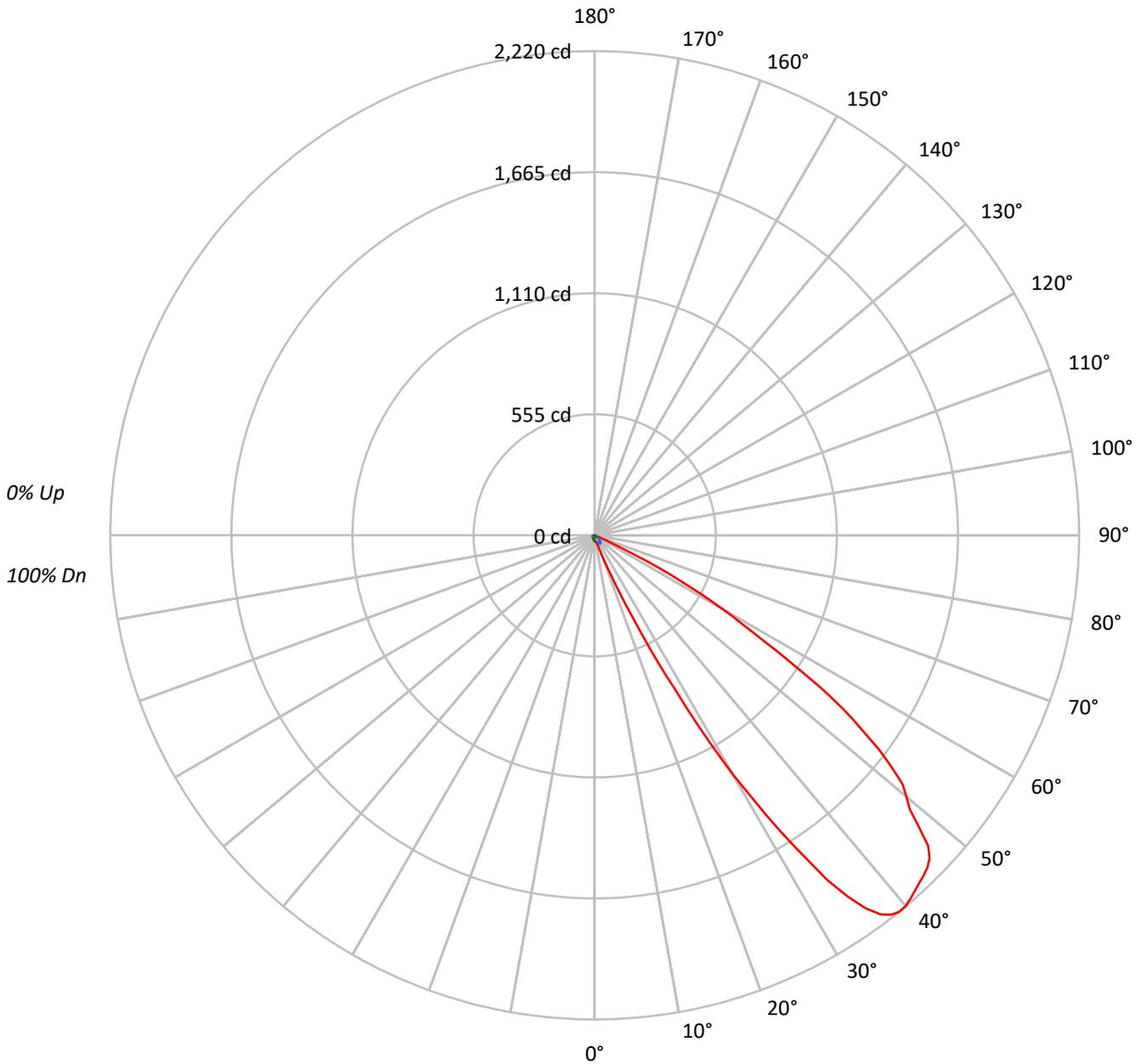
Test Method: LM-79-2019  
Report Number: P1323626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R359030D2WDE010 3LSQCA45R 1MW  
Description: 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: 553.1 lumens  
Efficiency: N/A  
Efficacy: 49.8 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): 11.1  
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	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	96	93	91	87		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	84	80	77	73		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73	74	68	64	61		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61	74	68	64	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50	64	58	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42	42	56	50	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35	35	50	43	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29	29	44	37	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24	24	39	32	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20	20	35	28	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17	17	31	24	19	17		

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

	0°	45°	90°	135°	180°
0°	4392	4392	4392	4392	4392
5°	4754	4668	4322	3890	3803
10°	4984	4547	3847	3323	3323
15°	7114	4457	3120	2853	2942
20°	17833	4765	2474	2474	2749
25°	82814	6062	1900	2280	2565
30°	251764	8233	1491	2088	2585
35°	425494	9545	1261	1997	2523
40°	498742	9420	1012	2023	2698
45°	525236	6698	852	2192	2923
50°	499959	4019	804	2277	3215
55°	418954	1651	901	2552	3753
60°	234533	344	1033	2928	4133
65°	40466	204	1019	3260	4686
70°	755	252	1259	3525	5287
75°	665	333	1664	3993	5989
80°	496	496	1984	4463	6943
85°	0	988	3952	4940	7904

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 528971 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	6.5	1.2
20°-30°	33.9	6.1
30°-40°	146.5	26.5
40°-50°	209.0	37.8
50°-60°	129.5	23.4
60°-70°	19.7	3.6
70°-80°	3.7	0.7
80°-90°	1.8	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°	42.8	7.7
0°-40°	189.3	34.2
0°-60°	527.8	95.4
0°-90°	553.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	28	27	25	22	22	3
15°	40	25	18	16	16	14
25°	436	32	10	12	14	261
35°	2024	45	6	10	12	1215
45°	2156	28	4	9	12	1629
55°	1395	6	3	8	12	1188
65°	99	0	2	8	12	203
75°	1	0	2	6	9	1
85°	0	0	2	2	4	0
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°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
2.5°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	25.5	25.0
5°	27.5	27.5	27.0	27.0	27.0	27.0	27.0	27.0	26.0	25.0	23.5
7.5°	28.0	28.0	27.5	27.5	27.5	27.5	27.0	26.5	25.5	23.5	22.0
10°	28.5	28.5	28.5	28.5	28.0	27.5	27.0	26.0	24.5	22.0	20.5
12.5°	31.9	31.9	31.4	30.5	29.5	28.5	27.5	25.5	22.5	20.0	18.5
15°	39.9	39.4	38.4	36.9	34.9	32.4	30.5	25.0	20.5	17.5	16.5
17.5°	55.9	54.9	53.4	48.4	43.9	39.4	35.4	25.0	18.5	15.5	14.5
20°	97.3	97.8	87.4	75.4	65.4	54.4	44.4	26.0	16.5	13.5	13.0
22.5°	203.2	195.2	170.2	141.3	107.8	83.4	62.9	28.5	14.5	11.5	11.5
25°	435.8	405.4	344.9	260.6	183.7	130.3	91.4	31.9	13.0	10.0	10.5
27.5°	795.7	768.3	647.0	487.2	323.5	196.7	123.8	36.4	11.5	8.5	9.5
30°	1266.0	1190.1	1031.8	798.7	540.6	301.0	166.2	41.4	9.5	7.5	9.0
31°	1412.7	1377.8	1185.1	924.0	633.5	357.4	184.2	42.9	9.0	7.5	8.5
32°	1587.0	1525.1	1352.3	1061.3	727.8	407.8	205.7	44.4	8.5	6.5	8.5
33°	1742.7	1682.8	1472.6	1182.1	823.2	465.3	228.6	44.9	7.5	6.5	8.0
34°	1906.4	1824.6	1616.4	1308.4	921.0	527.2	249.6	45.4	7.0	6.0	8.0
35°	2023.8	1941.9	1740.2	1408.2	1005.4	582.1	273.6	45.4	6.5	6.0	7.5
36°	2114.6	2042.7	1847.0	1511.1	1089.3	631.5	292.5	45.4	5.5	5.5	7.5
37°	2177.0	2108.6	1918.9	1599.4	1153.2	675.4	309.5	45.4	5.0	5.5	7.5
38°	2207.5	2150.6	1988.3	1663.8	1215.1	709.9	323.0	44.4	4.5	5.0	7.0
39°	2220.4	2174.0	2030.7	1718.2	1261.5	739.8	333.0	43.4	4.0	5.0	7.0
40°	2218.4	2178.0	2054.7	1755.7	1298.9	760.3	338.5	41.9	3.5	4.5	7.0
41°	2207.0	2172.0	2067.2	1787.6	1321.4	774.3	340.0	40.4	3.0	4.5	6.5
42°	2194.0	2162.0	2071.2	1804.6	1335.9	778.8	336.0	38.4	3.0	4.0	6.5
43°	2180.5	2151.1	2071.2	1810.1	1339.4	775.8	329.5	34.9	2.5	4.0	6.5
44°	2169.5	2141.6	2064.7	1808.6	1331.9	764.3	317.5	31.0	2.0	4.0	6.5
45°	2156.5	2129.1	2056.2	1799.1	1317.4	744.8	302.5	27.5	1.5	3.5	6.5
46°	2133.6	2112.1	2041.2	1779.7	1294.4	717.9	283.5	25.0	1.0	3.5	6.0
47°	2089.2	2070.7	2012.3	1750.7	1264.0	685.9	264.1	22.5	1.0	3.5	6.0
48°	1999.8	1999.3	1954.4	1696.8	1215.6	646.0	243.6	20.0	1.0	3.5	6.0
49°	1913.4	1904.5	1848.5	1601.9	1146.2	598.0	222.1	18.0	0.5	3.5	6.0
50°	1866.0	1846.5	1754.7	1490.1	1057.3	531.6	199.2	15.0	0.5	3.0	6.0
51°	1816.6	1788.6	1680.3	1389.3	951.5	467.8	174.2	12.0	0.5	3.0	5.5
52°	1727.2	1700.8	1579.5	1292.9	848.6	402.4	150.3	10.0	0.5	3.0	6.0
53°	1630.9	1593.0	1461.2	1187.1	758.3	344.4	125.8	8.5	0.5	3.0	5.5
54°	1509.6	1492.6	1341.4	1057.3	652.5	288.5	103.3	7.0	0.5	3.0	5.5
55°	1395.3	1370.3	1213.1	924.5	556.6	236.6	86.4	5.5	0.5	3.0	5.5
56°	1249.5	1212.1	1064.8	802.7	459.3	190.7	72.9	4.5	0.5	3.0	5.5
57°	1075.8	1035.8	919.5	667.4	360.4	145.3	60.9	3.5	0.5	3.0	5.5
58°	910.0	875.6	750.8	515.2	271.6	100.8	50.4	2.5	0.5	2.5	5.5
59°	786.2	748.3	624.5	396.4	188.7	74.4	37.9	2.0	0.5	3.0	5.5
60°	680.9	632.0	502.7	307.0	134.8	53.4	28.0	1.0	1.0	3.0	5.5
62.5°	392.4	346.4	240.1	124.8	55.4	27.5	13.5	0.5	1.0	3.0	5.5
65°	99.3	88.4	57.4	27.0	15.5	9.5	5.0	0.5	1.0	2.5	5.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.5	3.5	3.5	3.0	2.5	2.0	1.0	0.5	1.0	2.5	5.0
70°	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	1.0	2.5	4.5
72.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.5	4.0
75°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.5	4.0
77.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.5	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	1.5
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°	25.5	25.5	25.5
2.5°	24.0	24.0	24.0
5°	22.5	22.5	22.0
7.5°	21.0	20.5	20.5
10°	19.0	19.0	19.0
12.5°	17.5	17.5	17.5
15°	16.0	16.5	16.5
17.5°	14.5	15.5	15.5
20°	13.5	14.5	15.0
22.5°	12.5	13.5	14.0
25°	12.0	13.0	13.5
27.5°	11.0	12.5	13.5
30°	10.5	12.0	13.0
31°	10.5	12.0	12.5
32°	10.0	12.0	12.5
33°	10.0	12.0	12.5
34°	10.0	11.5	12.5
35°	9.5	11.5	12.0
36°	9.5	11.5	12.0
37°	9.5	11.5	12.5
38°	9.5	11.5	12.0
39°	9.0	11.5	12.0
40°	9.0	11.5	12.0
41°	9.0	11.5	12.0
42°	9.0	11.5	12.0
43°	9.0	11.5	12.0
44°	9.0	11.0	12.0
45°	9.0	11.0	12.0
46°	9.0	11.5	12.0
47°	9.0	11.5	12.5
48°	9.0	11.0	12.0
49°	8.5	11.0	12.0
50°	8.5	11.0	12.0
51°	8.5	11.5	12.5
52°	8.5	11.5	12.5
53°	8.5	11.5	12.5
54°	8.5	11.5	12.0
55°	8.5	11.5	12.5
56°	8.5	11.5	12.0
57°	8.5	11.5	12.0
58°	8.5	11.0	12.0
59°	8.5	11.0	12.0
60°	8.5	11.0	12.0
62.5°	8.0	11.0	12.0
65°	8.0	10.5	11.5



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	7.5	10.5	11.0
70°	7.0	10.0	10.5
72.5°	6.5	9.5	10.0
75°	6.0	8.5	9.0
77.5°	5.0	7.5	8.5
80°	4.5	6.5	7.0
82.5°	3.5	5.5	6.0
85°	2.5	4.0	4.0
87.5°	1.0	2.0	2.0
90°	0.0	0.0	0.0

(END OF REPORT)