

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: P1326571

Luminaire Tested: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326571
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: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

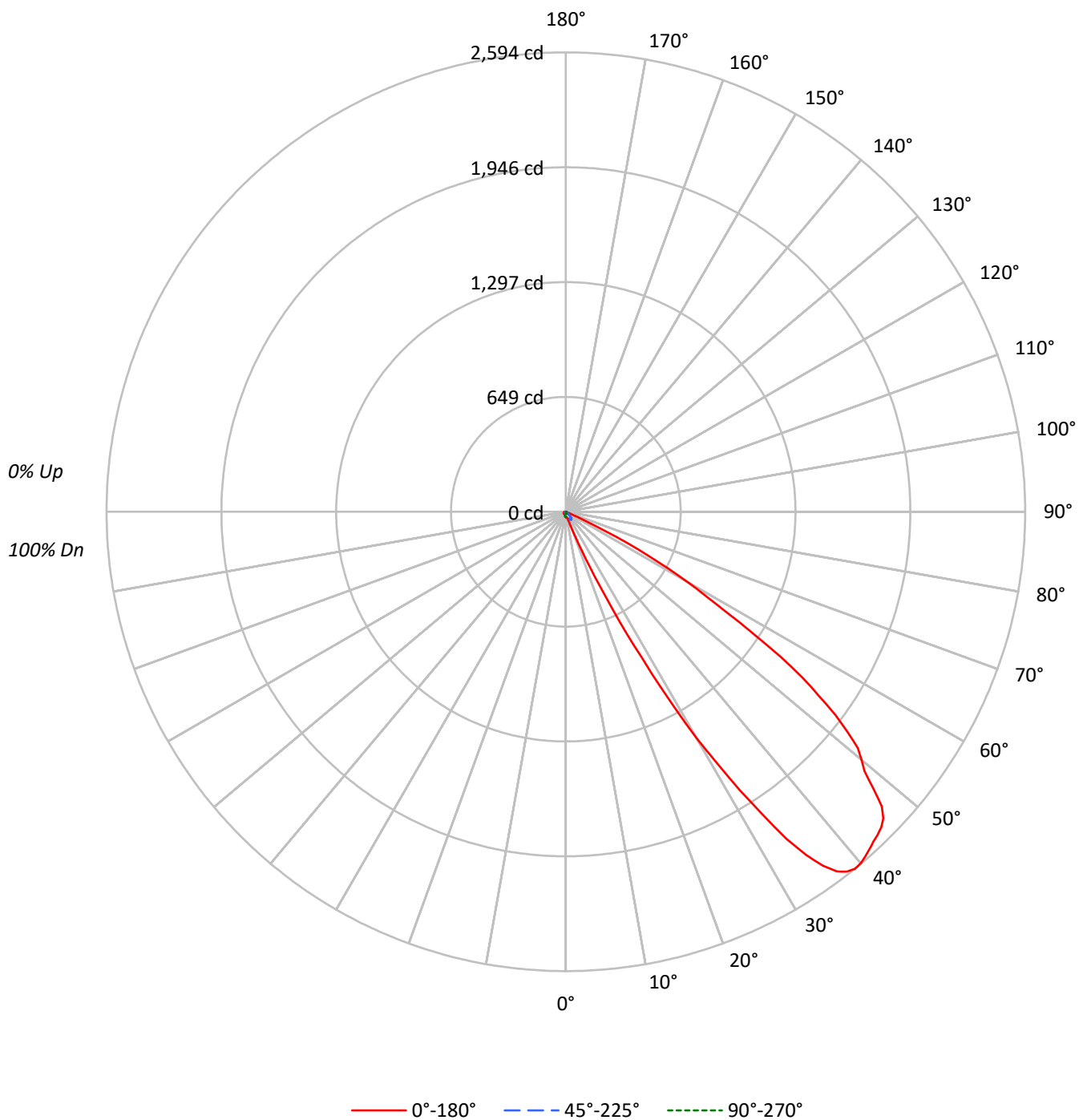
Lumens per Lamp: N/A
Luminaire Lumens: 646.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5115	5115	5115	5115	5115
5°	5549	5446	5048	4529	4443
10°	5806	5299	4494	3882	3882
15°	8327	5206	3637	3334	3423
20°	20838	5553	2877	2877	3207
25°	96743	7088	2223	2660	2983
30°	294102	9625	1730	2426	3023
35°	497040	11164	1472	2334	2943
40°	582623	11016	1169	2361	3147
45°	613575	7818	999	2557	3410
50°	584036	4689	938	2653	3751
55°	489395	1922	1051	2973	4384
60°	273972	413	1206	3410	4822
65°	47272	245	1182	3790	5461
70°	856	302	1460	4129	6143
75°	799	399	1930	4658	6987
80°	595	595	2281	5157	8133
85°	0	1186	4545	5730	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 617926 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.4
10°-20°	7.6	1.2
20°-30°	39.6	6.1
30°-40°	171.2	26.5
40°-50°	244.2	37.8
50°-60°	151.2	23.4
60°-70°	23.0	3.6
70°-80°	4.3	0.7
80°-90°	2.1	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°	49.9	7.7
0°-40°	221.1	34.2
0°-60°	616.5	95.4
0°-90°	646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	32	32	29	26	26	3
15°	47	29	20	19	19	17
25°	509	37	12	14	16	305
35°	2364	53	7	11	14	1419
45°	2519	32	4	10	14	1903
55°	1630	6	4	10	15	1388
65°	116	1	3	9	13	237
75°	1	1	3	7	10	1
85°	0	1	2	3	5	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°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
2.5°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	29.7	29.2
5°	32.1	32.1	31.5	31.5	31.5	31.5	31.5	31.5	30.3	29.2	27.4
7.5°	32.7	32.7	32.1	32.1	32.1	32.1	31.5	30.9	29.7	27.4	25.7
10°	33.2	33.2	33.2	33.2	32.7	32.1	31.5	30.3	28.6	25.7	23.9
12.5°	37.3	37.3	36.7	35.6	34.4	33.2	32.1	29.7	26.2	23.3	21.6
15°	46.7	46.1	44.9	43.2	40.8	37.9	35.6	29.2	23.9	20.4	19.2
17.5°	65.3	64.1	62.4	56.6	51.3	46.1	41.4	29.2	21.6	18.1	16.9
20°	113.7	114.3	102.1	88.1	76.4	63.6	51.9	30.3	19.2	15.7	15.2
22.5°	237.3	228.0	198.9	165.0	126.0	97.4	73.5	33.2	16.9	13.4	13.4
25°	509.1	473.5	403.0	304.4	214.6	152.2	106.7	37.3	15.2	11.7	12.2
27.5°	929.5	897.5	755.8	569.2	377.9	229.8	144.6	42.6	13.4	9.9	11.1
30°	1478.9	1390.2	1205.4	933.0	631.6	351.6	194.2	48.4	11.1	8.7	10.5
31°	1650.3	1609.5	1384.4	1079.4	740.0	417.5	215.2	50.2	10.5	8.7	9.9
32°	1853.8	1781.5	1579.8	1239.8	850.2	476.4	240.3	51.9	9.9	7.6	9.9
33°	2035.8	1965.8	1720.3	1380.9	961.6	543.5	267.1	52.5	8.7	7.6	9.3
34°	2227.1	2131.4	1888.3	1528.4	1075.9	615.8	291.6	53.1	8.2	7.0	9.3
35°	2364.1	2268.5	2032.9	1645.1	1174.5	680.0	319.6	53.1	7.6	7.0	8.7
36°	2470.2	2386.3	2157.7	1765.2	1272.4	737.7	341.7	53.1	6.4	6.4	8.7
37°	2543.1	2463.2	2241.6	1868.4	1347.1	789.0	361.6	53.1	5.8	6.4	8.7
38°	2578.7	2512.2	2322.7	1943.6	1419.4	829.2	377.3	51.9	5.2	5.8	8.2
39°	2593.9	2539.6	2372.3	2007.2	1473.6	864.2	389.0	50.7	4.7	5.8	8.2
40°	2591.5	2544.3	2400.3	2051.0	1517.4	888.1	395.4	49.0	4.1	5.2	8.2
41°	2578.1	2537.3	2414.8	2088.3	1543.6	904.5	397.1	47.2	3.5	5.2	7.6
42°	2563.0	2525.6	2419.5	2108.1	1560.5	909.7	392.5	44.9	3.5	4.7	7.6
43°	2547.2	2512.8	2419.5	2114.5	1564.6	906.2	384.9	40.8	2.9	4.7	7.6
44°	2534.4	2501.7	2411.9	2112.8	1555.9	892.8	370.9	36.2	2.3	4.7	7.6
45°	2519.2	2487.1	2402.0	2101.7	1538.9	870.1	353.4	32.1	1.7	4.1	7.6
46°	2492.4	2467.3	2384.5	2078.9	1512.1	838.6	331.2	29.2	1.2	4.1	7.0
47°	2440.5	2418.9	2350.7	2045.1	1476.5	801.3	308.5	26.2	1.2	4.1	7.0
48°	2336.1	2335.5	2283.0	1982.1	1420.0	754.6	284.6	23.3	1.2	4.1	7.0
49°	2235.2	2224.7	2159.4	1871.3	1338.9	698.6	259.5	21.0	0.6	4.1	7.0
50°	2179.8	2157.1	2049.8	1740.7	1235.1	621.1	232.7	17.5	0.6	3.5	7.0
51°	2122.1	2089.4	1962.9	1622.9	1111.5	546.4	203.5	14.0	0.6	3.5	6.4
52°	2017.7	1986.8	1845.1	1510.4	991.4	470.0	175.5	11.7	0.6	3.5	7.0
53°	1905.2	1860.8	1706.9	1386.7	885.8	402.4	147.0	9.9	0.6	3.5	6.4
54°	1763.5	1743.6	1566.9	1235.1	762.2	337.1	120.7	8.2	0.6	3.5	6.4
55°	1629.9	1600.8	1417.1	1080.0	650.2	276.4	100.9	6.4	0.6	3.5	6.4
56°	1459.6	1415.9	1243.9	937.7	536.5	222.8	85.1	5.2	0.6	3.5	6.4
57°	1256.7	1210.0	1074.2	779.7	421.0	169.7	71.1	4.1	0.6	3.5	6.4
58°	1063.1	1022.9	877.1	601.8	317.2	117.8	58.9	2.9	0.6	2.9	6.4
59°	918.5	874.1	729.5	463.0	220.4	86.9	44.3	2.3	0.6	3.5	6.4
60°	795.4	738.3	587.2	358.6	157.5	62.4	32.7	1.2	1.2	3.5	6.4
62.5°	458.4	404.7	280.5	145.8	64.7	32.1	15.7	0.6	1.2	3.5	6.4
65°	116.0	103.2	67.1	31.5	18.1	11.1	5.8	0.6	1.2	2.9	5.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.1	4.1	4.1	3.5	2.9	2.3	1.2	0.6	1.2	2.9	5.8
70°	1.7	1.7	1.7	1.2	1.2	0.6	0.6	0.6	1.2	2.9	5.2
72.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.7	2.9	4.7
75°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.7	2.9	4.7
77.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3	4.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3	3.5
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.7	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	2.3	1.7
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°	29.7	29.7	29.7
2.5°	28.0	28.0	28.0
5°	26.2	26.2	25.7
7.5°	24.5	23.9	23.9
10°	22.2	22.2	22.2
12.5°	20.4	20.4	20.4
15°	18.7	19.2	19.2
17.5°	16.9	18.1	18.1
20°	15.7	16.9	17.5
22.5°	14.6	15.7	16.3
25°	14.0	15.2	15.7
27.5°	12.8	14.6	15.7
30°	12.2	14.0	15.2
31°	12.2	14.0	14.6
32°	11.7	14.0	14.6
33°	11.7	14.0	14.6
34°	11.7	13.4	14.6
35°	11.1	13.4	14.0
36°	11.1	13.4	14.0
37°	11.1	13.4	14.6
38°	11.1	13.4	14.0
39°	10.5	13.4	14.0
40°	10.5	13.4	14.0
41°	10.5	13.4	14.0
42°	10.5	13.4	14.0
43°	10.5	13.4	14.0
44°	10.5	12.8	14.0
45°	10.5	12.8	14.0
46°	10.5	13.4	14.0
47°	10.5	13.4	14.6
48°	10.5	12.8	14.0
49°	9.9	12.8	14.0
50°	9.9	12.8	14.0
51°	9.9	13.4	14.6
52°	9.9	13.4	14.6
53°	9.9	13.4	14.6
54°	9.9	13.4	14.0
55°	9.9	13.4	14.6
56°	9.9	13.4	14.0
57°	9.9	13.4	14.0
58°	9.9	12.8	14.0
59°	9.9	12.8	14.0
60°	9.9	12.8	14.0
62.5°	9.3	12.8	14.0
65°	9.3	12.2	13.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	8.7	12.2	12.8
70°	8.2	11.7	12.2
72.5°	7.6	11.1	11.7
75°	7.0	9.9	10.5
77.5°	5.8	8.7	9.9
80°	5.2	7.6	8.2
82.5°	4.1	6.4	7.0
85°	2.9	4.7	4.7
87.5°	1.2	2.3	2.3
90°	0.0	0.0	0.0

(END OF REPORT)