

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: P1326207

Luminaire Tested: LDSQA3D09R25W2N902765DE010 3LSQCA45R 1MW_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326207
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: LDSQA3D09R25W2N902765DE010 3LSQCA45R 1MW_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 6500K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

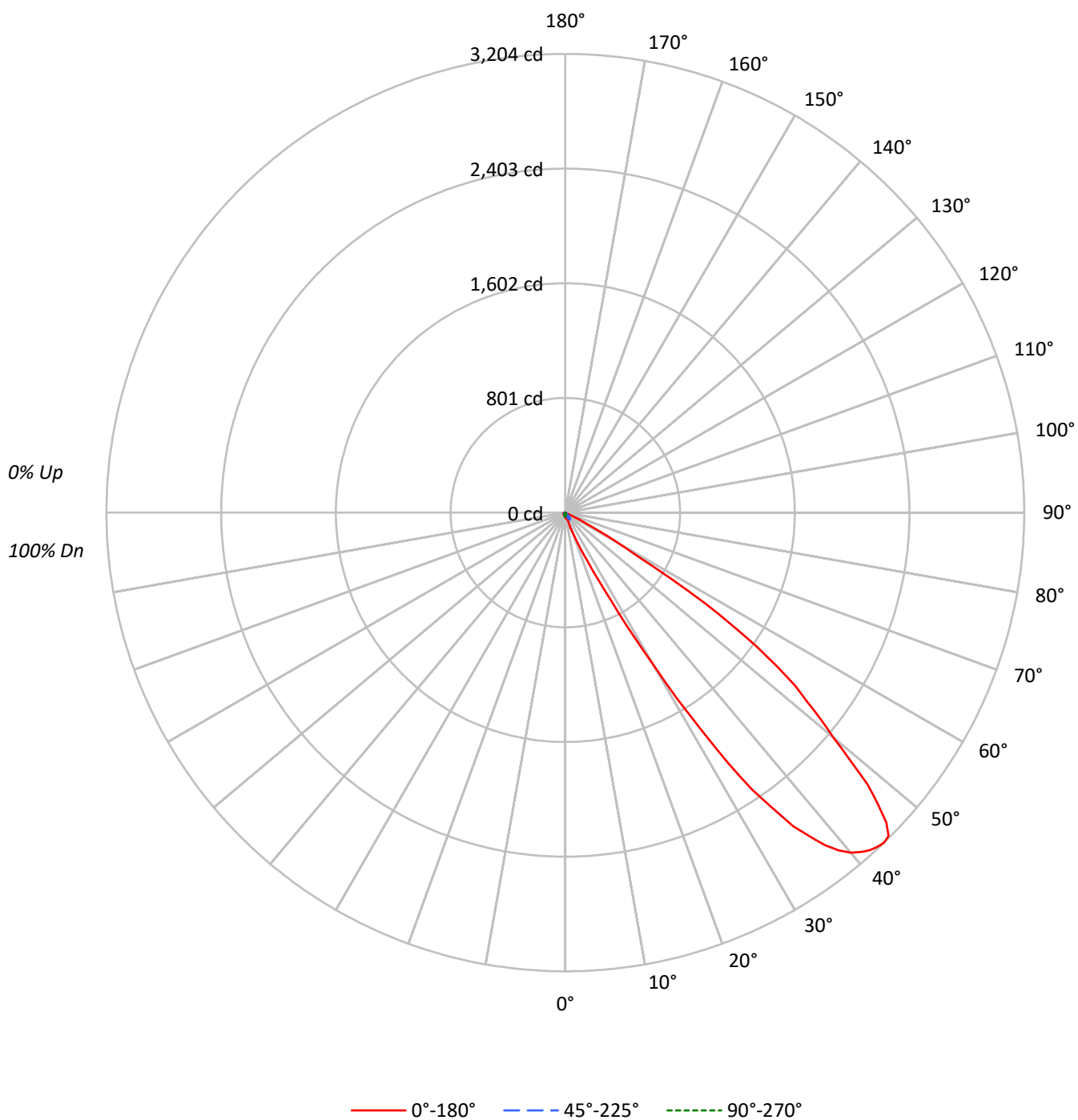
Lumens per Lamp: N/A
Luminaire Lumens: 668.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5873	5873	5873	5873	5873
5°	6708	6397	5688	5083	4979
10°	6680	6068	4827	4215	4215
15°	7435	5242	3780	3566	3780
20°	26282	5168	2914	3024	3336
25°	75631	6594	2337	2793	3230
30°	241284	10162	1869	2685	3281
35°	528451	11984	1598	2586	3343
40°	697124	10836	1326	2653	3575
45°	777418	7599	1291	2874	3873
50°	654394	3939	1259	3001	4260
55°	489245	1591	1231	3363	4774
60°	151453	413	1206	3651	5270
65°	12918	0	1426	3831	5746
70°	906	302	1460	4431	6496
75°	799	399	1930	4724	7453
80°	595	595	2876	5256	8728
85°	1186	1186	4742	5730	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 777418 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	7.9	1.2
20°-30°	37.0	5.5
30°-40°	177.9	26.6
40°-50°	278.9	41.8
50°-60°	143.0	21.4
60°-70°	13.5	2.0
70°-80°	4.5	0.7
80°-90°	2.3	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°	47.9	7.2
0°-40°	225.8	33.8
0°-60°	647.7	97.0
0°-90°	668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	668.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	39	37	33	29	29	4
15°	42	29	21	20	21	18
25°	398	35	12	15	17	247
35°	2514	57	8	12	16	1526
45°	3192	31	5	12	16	2336
55°	1629	5	4	11	16	1357
65°	32	0	4	9	14	99
75°	1	1	3	7	11	1
85°	1	1	2	3	5	0
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°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
2.5°	37.0	37.0	37.0	37.0	37.0	37.0	36.4	36.4	37.0	36.4	36.4
5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.2	38.2	38.2	37.0
7.5°	39.4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.2	38.2	36.4
10°	38.2	38.2	38.2	38.2	37.6	37.6	37.6	37.0	37.0	37.0	34.7
12.5°	38.2	38.2	38.2	38.2	37.6	37.6	37.0	37.0	36.4	35.9	31.7
15°	41.7	41.7	41.7	41.1	40.6	40.0	39.4	38.8	38.2	37.0	29.4
17.5°	61.1	59.4	58.8	56.4	53.5	50.6	48.2	45.9	43.5	41.7	28.2
20°	143.4	142.8	139.9	132.8	125.2	116.4	107.6	97.6	83.5	74.1	28.2
22.5°	248.6	245.1	239.8	234.5	221.0	205.2	188.7	169.9	151.7	132.3	30.0
25°	398.0	406.2	388.6	374.4	350.9	322.1	291.0	265.1	232.2	201.6	34.7
27.5°	691.9	697.2	662.5	616.6	562.0	501.4	442.6	398.5	343.3	292.7	43.5
30°	1213.3	1218.6	1160.4	1062.8	949.9	850.6	716.0	597.8	489.1	405.0	51.1
31°	1514.2	1473.1	1405.5	1310.8	1168.0	1018.1	856.5	713.6	576.1	465.6	53.5
32°	1775.8	1772.3	1693.5	1550.1	1406.7	1221.5	1021.1	834.7	666.0	526.7	55.3
33°	2084.4	2060.9	1949.8	1814.6	1624.7	1438.4	1179.8	967.0	758.3	594.9	56.4
34°	2331.9	2268.4	2222.6	2068.0	1867.5	1630.0	1353.2	1106.9	873.5	660.7	57.0
35°	2513.5	2500.0	2410.7	2266.7	2062.7	1819.9	1540.1	1252.1	969.9	737.1	57.0
36°	2705.8	2664.0	2577.0	2446.5	2247.8	1996.8	1682.9	1377.9	1082.2	805.9	56.4
37°	2826.3	2801.6	2715.2	2580.5	2386.0	2146.1	1842.8	1510.7	1171.5	874.7	55.3
38°	2950.3	2900.3	2815.1	2686.4	2495.3	2270.2	1958.6	1613.0	1253.8	935.2	53.5
39°	3036.1	2984.4	2897.4	2769.2	2582.3	2358.9	2050.3	1700.0	1325.5	980.5	51.1
40°	3100.8	3050.8	2962.6	2831.0	2646.4	2428.9	2126.7	1777.0	1385.5	1019.9	48.2
41°	3140.7	3094.3	3006.7	2875.6	2690.5	2468.9	2176.7	1827.0	1426.1	1046.3	45.3
42°	3174.3	3126.6	3037.3	2903.3	2717.5	2503.0	2207.3	1858.7	1453.7	1059.8	42.9
43°	3193.1	3145.4	3058.4	2921.5	2734.0	2518.8	2223.7	1873.4	1463.1	1058.1	38.8
44°	3203.6	3154.3	3066.7	2929.7	2741.0	2522.9	2224.9	1870.5	1456.6	1044.0	35.3
45°	3191.9	3143.1	3058.4	2921.5	2728.7	2510.0	2213.2	1854.6	1431.9	1016.3	31.2
46°	3115.5	3077.8	3000.3	2874.5	2689.9	2477.1	2183.2	1824.0	1393.7	982.3	26.5
47°	2980.9	2950.9	2875.6	2782.2	2615.2	2416.5	2127.9	1765.8	1340.2	931.1	21.2
48°	2840.4	2796.3	2726.3	2630.5	2489.4	2307.8	2036.8	1680.6	1259.1	864.1	18.8
49°	2632.9	2607.0	2545.3	2438.3	2321.3	2161.4	1908.1	1571.3	1159.8	791.2	16.5
50°	2442.4	2424.8	2338.4	2259.6	2135.6	1986.3	1733.5	1427.2	1036.3	700.7	14.7
51°	2293.7	2272.5	2210.2	2112.1	1979.8	1806.4	1568.3	1240.3	894.7	593.1	11.8
52°	2138.5	2126.7	2071.5	1970.4	1840.5	1667.7	1407.8	1081.6	757.1	501.4	9.4
53°	2011.5	1994.5	1926.9	1837.0	1696.5	1517.8	1233.8	934.1	641.3	421.5	8.2
54°	1826.4	1819.3	1775.8	1681.8	1529.5	1334.9	1076.3	786.5	534.9	357.4	7.1
55°	1629.4	1605.9	1561.8	1487.2	1347.3	1165.7	894.1	651.9	432.6	301.0	5.3
56°	1389.6	1388.4	1309.7	1247.4	1123.3	930.5	714.2	509.1	351.5	251.0	4.7
57°	1160.4	1123.3	1047.5	985.8	852.3	706.0	530.2	381.5	275.1	203.4	3.5
58°	858.2	838.8	818.8	728.3	604.9	500.2	378.6	268.0	203.4	155.2	2.4
59°	582.5	581.9	558.4	489.7	418.5	311.5	236.3	182.2	139.9	114.0	1.8
60°	439.7	429.1	382.1	336.8	263.3	196.9	139.9	107.6	87.0	73.5	1.2
62.5°	154.0	159.9	140.5	116.4	88.8	72.9	55.8	45.3	37.0	30.0	0.0
65°	31.7	34.7	30.0	28.2	22.3	19.4	17.0	14.7	12.3	10.6	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°	4.1	3.5	3.5	3.5	2.9	2.9	2.9	2.9	2.4	2.4	0.6
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	0.6
72.5°	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	34.1	34.1	34.1	34.1	34.1	34.1
2.5°	35.9	34.7	32.9	32.3	31.7	31.7
5°	35.3	32.9	31.2	29.4	28.8	28.8
7.5°	33.5	30.6	28.2	27.0	26.5	25.9
10°	31.7	27.6	25.3	24.1	24.1	24.1
12.5°	28.2	24.7	22.3	21.7	22.3	22.3
15°	25.3	21.2	20.0	20.0	20.6	21.2
17.5°	21.7	18.8	17.6	18.2	18.8	19.4
20°	19.4	15.9	15.9	16.5	18.2	18.2
22.5°	17.0	14.1	14.1	15.9	17.0	17.6
25°	15.3	12.3	12.9	14.7	16.5	17.0
27.5°	12.9	10.6	11.8	14.1	15.9	16.5
30°	11.2	9.4	11.2	13.5	15.3	16.5
31°	10.6	8.8	11.2	12.9	15.3	16.5
32°	9.4	8.8	10.6	12.9	15.3	15.9
33°	8.8	8.2	10.6	12.9	15.3	15.9
34°	8.2	7.6	10.0	12.9	15.3	15.9
35°	7.1	7.6	10.0	12.3	14.7	15.9
36°	6.5	7.1	10.0	12.3	14.7	15.9
37°	5.9	7.1	9.4	12.3	14.7	15.9
38°	5.3	6.5	9.4	12.3	14.7	15.9
39°	4.7	6.5	8.8	12.3	14.7	15.9
40°	4.1	5.9	8.8	11.8	14.7	15.9
41°	4.1	5.9	8.8	11.8	14.7	15.9
42°	3.5	5.9	8.8	11.8	14.7	15.9
43°	2.9	5.3	8.8	11.8	14.7	15.9
44°	2.4	5.3	8.2	11.8	14.7	15.9
45°	2.4	5.3	8.2	11.8	14.7	15.9
46°	1.8	4.7	8.2	11.8	14.7	15.9
47°	1.2	4.7	8.2	11.2	14.7	15.9
48°	1.2	4.7	8.2	11.2	14.7	15.9
49°	1.2	4.7	7.6	11.2	14.7	15.9
50°	1.2	4.7	7.6	11.2	14.7	15.9
51°	0.6	4.1	7.6	11.2	14.7	15.9
52°	0.6	4.1	7.6	11.2	14.7	16.5
53°	0.6	4.1	7.6	11.2	14.7	15.9
54°	0.6	4.1	7.1	11.2	14.7	15.9
55°	0.6	4.1	7.1	11.2	14.7	15.9
56°	0.6	3.5	7.1	10.6	14.7	15.9
57°	1.2	3.5	7.1	10.6	14.7	15.3
58°	1.2	3.5	7.1	10.6	14.1	15.3
59°	1.2	3.5	7.1	10.6	14.1	15.3
60°	1.2	3.5	6.5	10.6	14.1	15.3
62.5°	1.2	3.5	6.5	10.0	13.5	14.7
65°	1.2	3.5	5.9	9.4	13.5	14.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.2	2.9	5.9	8.8	12.9	13.5
70°	1.8	2.9	5.3	8.8	12.3	12.9
72.5°	1.8	2.9	5.3	7.6	11.2	12.3
75°	1.8	2.9	4.7	7.1	10.6	11.2
77.5°	1.8	2.9	4.1	6.5	9.4	10.0
80°	2.4	2.9	3.5	5.3	8.2	8.8
82.5°	2.4	2.9	2.9	4.1	6.5	7.1
85°	1.8	2.4	2.4	2.9	4.1	4.7
87.5°	1.8	2.4	1.8	1.2	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)