Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1326192

Luminaire Tested: LDSQA3D09R25W2N902765DE010 3LSQCA45R 1MB_3500K

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1326192
	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 1MB_3500K
Description:	3in Adjustable Tunable White LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	672.0 lumens
Efficiency:	N/A
Efficacy:	74.7 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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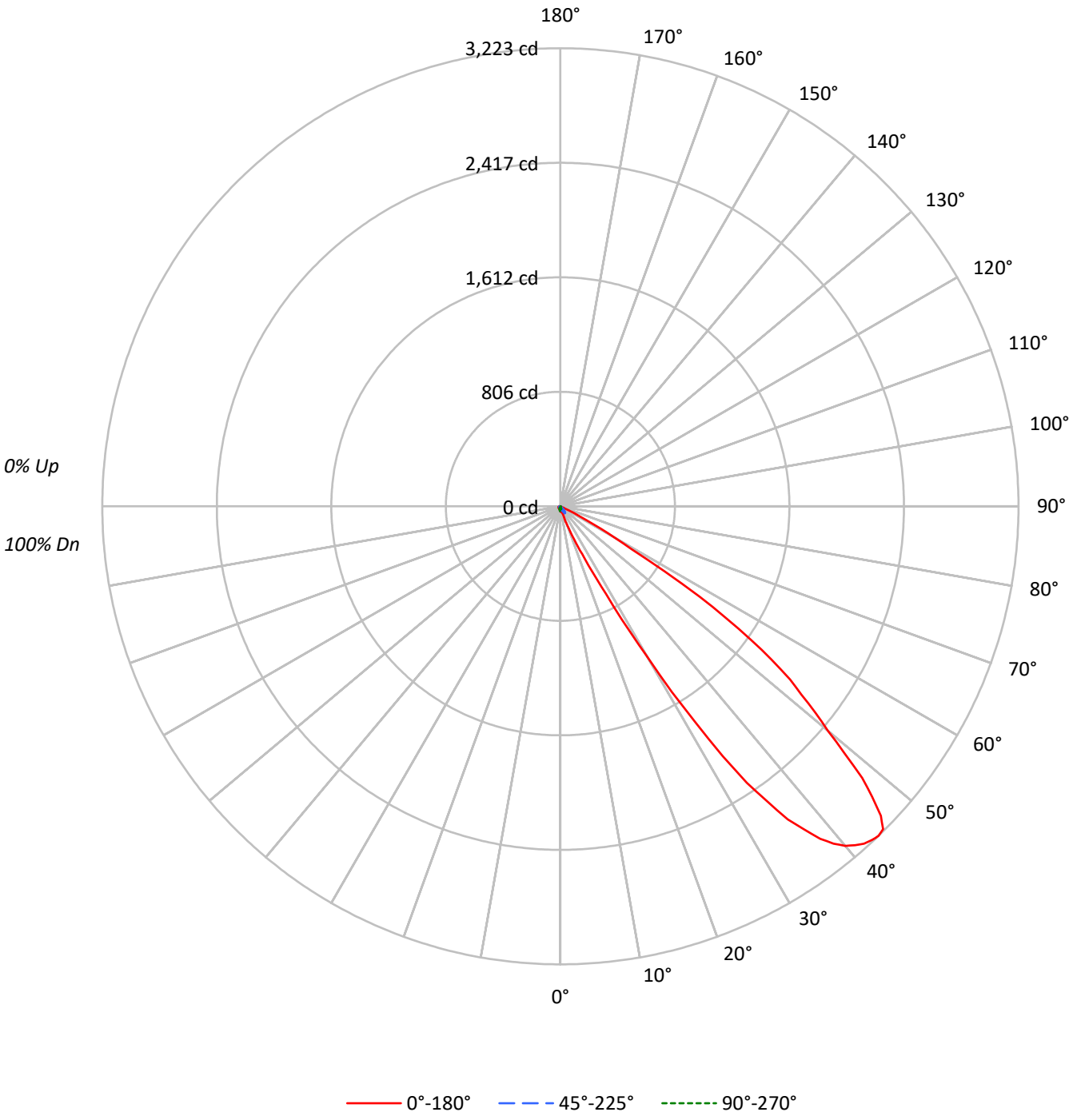
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
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°	5907	5907	5907	5907	5907
5°	6742	6448	5722	5117	5014
10°	6715	6103	4862	4232	4232
15°	7489	5278	3798	3584	3798
20°	26447	5205	2932	3042	3354
25°	76068	6632	2356	2812	3249
30°	242715	10222	1889	2705	3301
35°	531626	12068	1619	2607	3364
40°	701283	10904	1326	2653	3597
45°	782070	7623	1291	2874	3897
50°	658306	3965	1259	3001	4287
55°	492188	1591	1231	3363	4804
60°	152348	413	1206	3651	5304
65°	13000	0	1426	3871	5787
70°	906	302	1511	4482	6546
75°	799	399	1996	4724	7453
80°	595	595	2975	5256	8827
85°	1186	1186	4742	5928	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 782070 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°	37.2	5.5
30°-40°	179.0	26.6
40°-50°	280.6	41.8
50°-60°	143.8	21.4
60°-70°	13.6	2.0
70°-80°	4.6	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°	48.2	7.2
0°-40°	227.2	33.8
0°-60°	651.6	97.0
0°-90°	672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	672.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	39	37	33	30	29	4
15°	42	30	21	20	21	18
25°	400	35	12	15	17	248
35°	2529	57	8	12	16	1535
45°	3211	31	5	12	16	2350
55°	1639	5	4	11	16	1365
65°	32	0	4	10	14	100
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°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
2.5°	37.3	37.3	37.3	37.3	37.3	37.3	36.7	36.7	37.3	36.7	36.7
5°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	38.4	38.4	38.4	37.3
7.5°	39.6	39.0	39.0	39.0	39.0	39.0	39.0	39.0	38.4	38.4	36.7
10°	38.4	38.4	38.4	38.4	37.8	37.8	37.8	37.3	37.3	37.3	34.9
12.5°	38.4	38.4	38.4	38.4	37.8	37.8	37.3	37.3	36.7	36.1	31.9
15°	42.0	42.0	42.0	41.4	40.8	40.2	39.6	39.0	38.4	37.3	29.6
17.5°	61.5	59.7	59.1	56.8	53.8	50.9	48.5	46.1	43.8	42.0	28.4
20°	144.3	143.7	140.7	133.6	126.0	117.1	108.2	98.2	84.0	74.5	28.4
22.5°	250.1	246.6	241.3	235.9	222.3	206.4	189.8	170.9	152.6	133.1	30.2
25°	400.3	408.6	390.9	376.7	353.0	324.1	292.7	266.7	233.6	202.8	34.9
27.5°	696.0	701.3	666.4	620.3	565.3	504.4	445.3	400.9	345.3	294.5	43.8
30°	1220.5	1225.9	1167.3	1069.2	955.6	855.7	720.3	601.4	492.0	407.4	51.4
31°	1523.3	1481.9	1413.9	1318.7	1175.0	1024.2	861.6	717.9	579.5	468.3	53.8
32°	1786.5	1782.9	1703.7	1559.4	1415.1	1228.8	1027.2	839.7	670.0	529.8	55.6
33°	2096.9	2073.3	1961.5	1825.5	1634.5	1447.0	1186.8	972.8	762.8	598.4	56.8
34°	2345.9	2282.0	2235.9	2080.3	1878.7	1639.8	1361.3	1113.5	878.7	664.7	57.4
35°	2528.6	2515.0	2425.1	2280.2	2075.0	1830.8	1549.3	1259.6	975.7	741.5	57.4
36°	2722.0	2680.0	2592.5	2461.2	2261.3	2008.8	1693.0	1386.1	1088.7	810.7	56.8
37°	2843.2	2818.3	2731.4	2596.0	2400.3	2159.0	1853.9	1519.8	1178.5	879.9	55.6
38°	2968.0	2917.7	2831.9	2702.4	2510.3	2283.8	1970.4	1622.6	1261.3	940.8	53.8
39°	3054.3	3002.3	2914.7	2785.8	2597.8	2373.1	2062.6	1710.2	1333.5	986.4	51.4
40°	3119.3	3069.1	2980.4	2847.9	2662.2	2443.4	2139.5	1787.6	1393.8	1026.0	48.5
41°	3159.6	3112.8	3024.7	2892.9	2706.6	2483.6	2189.7	1837.9	1434.6	1052.6	45.5
42°	3193.3	3145.4	3055.5	2920.6	2733.8	2517.9	2220.5	1869.8	1462.4	1066.2	43.2
43°	3212.2	3164.3	3076.8	2939.0	2750.3	2533.9	2237.1	1884.6	1471.9	1064.4	39.0
44°	3222.8	3173.2	3085.0	2947.3	2757.4	2538.0	2238.2	1881.7	1465.4	1050.2	35.5
45°	3211.0	3161.9	3076.8	2939.0	2745.0	2525.0	2226.4	1865.7	1440.5	1022.4	31.3
46°	3134.1	3096.3	3018.2	2891.7	2706.0	2491.9	2196.3	1834.9	1402.1	988.1	26.6
47°	2998.7	2968.5	2892.9	2798.8	2630.9	2431.0	2140.7	1776.4	1348.3	936.7	21.3
48°	2857.4	2813.0	2742.7	2646.3	2504.3	2321.6	2049.0	1690.7	1266.7	869.3	18.9
49°	2648.6	2622.6	2560.5	2452.9	2335.2	2174.4	1919.5	1580.7	1166.7	795.9	16.6
50°	2457.0	2439.3	2352.4	2273.1	2148.4	1998.2	1743.9	1435.8	1042.5	704.9	14.8
51°	2307.4	2286.1	2223.5	2124.7	1991.6	1817.2	1577.7	1247.7	900.0	596.7	11.8
52°	2151.3	2139.5	2083.9	1982.2	1851.5	1677.6	1416.3	1088.1	761.7	504.4	9.5
53°	2023.6	2006.4	1938.4	1848.0	1706.6	1526.9	1241.2	939.6	645.2	424.0	8.3
54°	1837.3	1830.2	1786.5	1691.8	1538.7	1342.9	1082.8	791.2	538.1	359.5	7.1
55°	1639.2	1615.6	1571.2	1496.1	1355.4	1172.6	899.4	655.8	435.2	302.8	5.3
56°	1397.9	1396.8	1317.5	1254.8	1130.1	936.1	718.5	512.1	353.6	252.5	4.7
57°	1167.3	1130.1	1053.8	991.7	857.4	710.2	533.4	383.8	276.7	204.6	3.5
58°	863.4	843.8	823.7	732.7	608.5	503.2	380.8	269.7	204.6	156.1	2.4
59°	586.0	585.4	561.8	492.6	421.0	313.4	237.7	183.3	140.7	114.7	1.8
60°	442.3	431.7	384.4	338.8	264.9	198.1	140.7	108.2	87.5	73.9	1.2
62.5°	154.9	160.8	141.3	117.1	89.3	73.3	56.2	45.5	37.3	30.2	0.0
65°	31.9	34.9	30.2	28.4	22.5	19.5	17.1	14.8	12.4	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	3.0	3.0	3.0	3.0	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°	34.3	34.3	34.3	34.3	34.3	34.3
2.5°	36.1	34.9	33.1	32.5	31.9	31.9
5°	35.5	33.1	31.3	29.6	29.0	29.0
7.5°	33.7	30.7	28.4	27.2	26.6	26.0
10°	31.9	27.8	25.4	24.2	24.2	24.2
12.5°	28.4	24.8	22.5	21.9	22.5	22.5
15°	25.4	21.3	20.1	20.1	20.7	21.3
17.5°	21.9	18.9	17.7	18.3	18.9	19.5
20°	19.5	16.0	16.0	16.6	18.3	18.3
22.5°	17.1	14.2	14.2	16.0	17.1	17.7
25°	15.4	12.4	13.0	14.8	16.6	17.1
27.5°	13.0	10.6	11.8	14.2	16.0	16.6
30°	11.2	9.5	11.2	13.6	15.4	16.6
31°	10.6	8.9	11.2	13.0	15.4	16.6
32°	9.5	8.9	10.6	13.0	15.4	16.0
33°	8.9	8.3	10.6	13.0	15.4	16.0
34°	8.3	7.7	10.1	13.0	15.4	16.0
35°	7.1	7.7	10.1	12.4	14.8	16.0
36°	6.5	7.1	10.1	12.4	14.8	16.0
37°	5.9	7.1	9.5	12.4	14.8	16.0
38°	5.3	6.5	9.5	12.4	14.8	16.0
39°	4.7	6.5	8.9	12.4	14.8	16.0
40°	4.1	5.9	8.9	11.8	14.8	16.0
41°	4.1	5.9	8.9	11.8	14.8	16.0
42°	3.5	5.9	8.9	11.8	14.8	16.0
43°	3.0	5.3	8.9	11.8	14.8	16.0
44°	*2.4*	*5.3*	*8.3*	*11.8*	*14.8*	*16.0*
45°	2.4	5.3	8.3	11.8	14.8	16.0
46°	1.8	4.7	8.3	11.8	14.8	16.0
47°	1.2	4.7	8.3	11.2	14.8	16.0
48°	1.2	4.7	8.3	11.2	14.8	16.0
49°	1.2	4.7	7.7	11.2	14.8	16.0
50°	1.2	4.7	7.7	11.2	14.8	16.0
51°	0.6	4.1	7.7	11.2	14.8	16.0
52°	0.6	4.1	7.7	11.2	14.8	16.6
53°	0.6	4.1	7.7	11.2	14.8	16.0
54°	0.6	4.1	7.1	11.2	14.8	16.0
55°	0.6	4.1	7.1	11.2	14.8	16.0
56°	0.6	3.5	7.1	10.6	14.8	16.0
57°	1.2	3.5	7.1	10.6	14.8	15.4
58°	1.2	3.5	7.1	10.6	14.2	15.4
59°	1.2	3.5	7.1	10.6	14.2	15.4
60°	1.2	3.5	6.5	10.6	14.2	15.4
62.5°	1.2	3.5	6.5	10.1	13.6	14.8
65°	1.2	3.5	5.9	9.5	13.6	14.2

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.2	3.0	5.9	8.9	13.0	13.6
70°	1.8	3.0	5.3	8.9	12.4	13.0
72.5°	1.8	3.0	5.3	7.7	11.2	12.4
75°	1.8	3.0	4.7	7.1	10.6	11.2
77.5°	1.8	3.0	4.1	6.5	9.5	10.1
80°	2.4	3.0	3.5	5.3	8.3	8.9
82.5°	2.4	3.0	3.0	4.1	6.5	7.1
85°	1.8	2.4	2.4	3.0	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)