

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: P1326107

Luminaire Tested: LDSQA3D09R25W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326107
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: LDSQA3D09R25W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

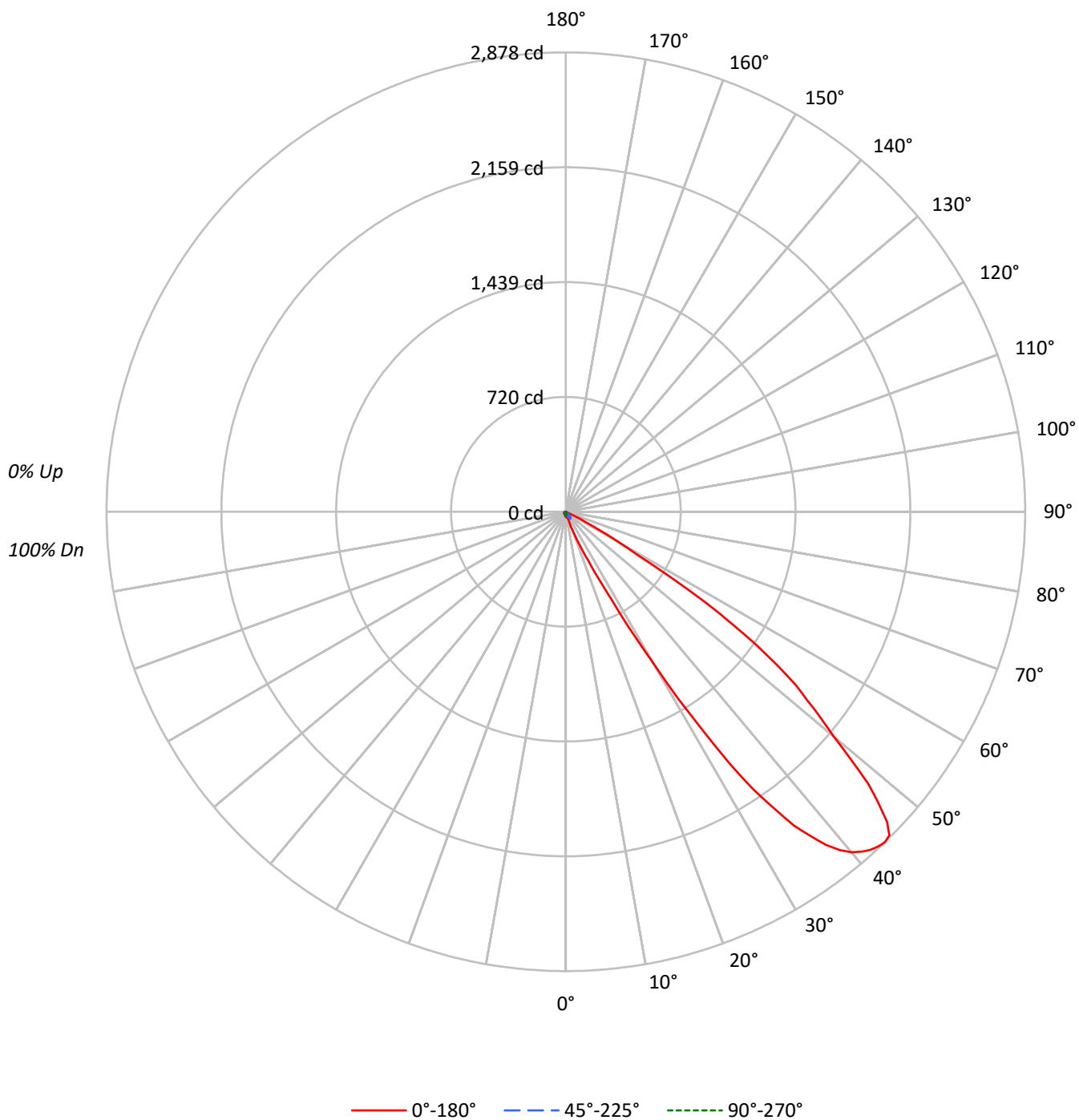
Lumens per Lamp: N/A
Luminaire Lumens: 600.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		108	104	101	97		100	97	94		96	94	92		92	91	89
2	101	93	87	82		98	91	86	81		88	83	79		85	81	77		82	78	75
3	92	81	74	67		89	80	73	67		77	71	66		74	69	64		72	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	75	62	53	46		73	61	53	46		59	51	46		57	50	45		55	49	45
6	68	55	45	39		66	54	45	39		52	44	38		50	43	38		48	42	37
7	62	48	39	32		60	47	39	32		46	38	32		44	37	32		43	36	32
8	57	43	34	27		55	42	33	27		40	33	27		39	32	27		38	32	27
9	52	38	29	23		51	37	29	23		36	28	23		35	28	23		34	27	23
10	48	34	25	20		47	33	25	20		32	25	20		31	24	19		30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5270	5270	5270	5270	5270
5°	6016	5757	5117	4564	4478
10°	5998	5456	4337	3777	3777
15°	6686	4707	3388	3209	3388
20°	23606	4637	2621	2712	3006
25°	67916	5929	2109	2508	2907
30°	216724	9128	1670	2406	2943
35°	474670	10765	1451	2334	3007
40°	626148	9735	1192	2383	3215
45°	698285	6820	1169	2582	3483
50°	587787	3537	1125	2679	3831
55°	439462	1441	1111	3003	4294
60°	136021	379	1102	3272	4719
65°	11614	0	1304	3423	5175
70°	806	252	1309	3978	5841
75°	732	333	1730	4192	6654
80°	496	496	2579	4761	7835
85°	988	988	4150	5138	8299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 698285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	7.1	1.2
20°-30°	33.2	5.5
30°-40°	159.8	26.6
40°-50°	250.5	41.8
50°-60°	128.4	21.4
60°-70°	12.1	2.0
70°-80°	4.1	0.7
80°-90°	2.0	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°	43.0	7.2
0°-40°	202.8	33.8
0°-60°	581.8	97.0
0°-90°	600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	35	33	30	26	26	3
15°	38	26	19	18	19	16
25°	357	31	11	13	15	222
35°	2258	51	7	11	14	1370
45°	2867	28	5	11	14	2098
55°	1464	5	4	10	14	1218
65°	28	0	3	8	13	89
75°	1	0	3	6	10	1
85°	0	0	2	3	4	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°	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
2.5°	33.3	33.3	33.3	33.3	33.3	33.3	32.7	32.7	33.3	32.7	32.7
5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.3	34.3	34.3	33.3
7.5°	35.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.3	34.3	32.7
10°	34.3	34.3	34.3	34.3	33.8	33.8	33.8	33.3	33.3	33.3	31.2
12.5°	34.3	34.3	34.3	34.3	33.8	33.8	33.3	33.3	32.7	32.2	28.5
15°	37.5	37.5	37.5	37.0	36.4	35.9	35.4	34.8	34.3	33.3	26.4
17.5°	54.9	53.3	52.8	50.7	48.0	45.4	43.3	41.2	39.1	37.5	25.3
20°	128.8	128.3	125.7	119.3	112.5	104.5	96.6	87.6	75.0	66.5	25.3
22.5°	223.3	220.2	215.4	210.7	198.5	184.3	169.5	152.6	136.2	118.8	26.9
25°	357.4	364.8	349.0	336.3	315.2	289.3	261.4	238.1	208.6	181.1	31.2
27.5°	621.4	626.2	595.0	553.9	504.8	450.4	397.6	358.0	308.3	262.9	39.1
30°	1089.8	1094.5	1042.2	954.6	853.2	764.0	643.1	537.0	439.3	363.8	45.9
31°	1360.1	1323.1	1262.4	1177.4	1049.1	914.5	769.3	641.0	517.4	418.2	48.0
32°	1595.0	1591.9	1521.1	1392.3	1263.5	1097.2	917.1	749.7	598.2	473.1	49.6
33°	1872.2	1851.1	1751.3	1629.9	1459.4	1292.0	1059.7	868.5	681.1	534.3	50.7
34°	2094.5	2037.5	1996.3	1857.5	1677.4	1464.1	1215.4	994.2	784.6	593.5	51.2
35°	2257.7	2245.5	2165.3	2035.9	1852.7	1634.6	1383.3	1124.6	871.2	662.1	51.2
36°	2430.3	2392.8	2314.7	2197.5	2019.0	1793.6	1511.6	1237.6	972.0	723.9	50.7
37°	2538.6	2516.4	2438.8	2317.9	2143.1	1927.7	1655.2	1356.9	1052.3	785.6	49.6
38°	2650.0	2605.1	2528.5	2412.9	2241.3	2039.1	1759.2	1448.8	1126.2	840.0	48.0
39°	2727.0	2680.6	2602.4	2487.3	2319.4	2118.8	1841.6	1526.9	1190.6	880.7	45.9
40°	2785.1	2740.2	2661.0	2542.8	2377.0	2181.6	1910.3	1596.1	1244.5	916.1	43.3
41°	2821.0	2779.3	2700.6	2582.9	2416.6	2217.5	1955.1	1641.0	1280.9	939.8	40.7
42°	2851.1	2808.4	2728.1	2607.7	2440.9	2248.2	1982.6	1669.5	1305.7	952.0	38.5
43°	2868.0	2825.3	2747.1	2624.1	2455.7	2262.4	1997.4	1682.7	1314.2	950.4	34.8
44°	2877.5	2833.2	2754.5	2631.5	2462.0	2266.1	1998.4	1680.1	1308.3	937.7	31.7
45°	2867.0	2823.1	2747.1	2624.1	2450.9	2254.5	1987.9	1665.8	1286.2	912.9	28.0
46°	2798.3	2764.5	2694.8	2581.9	2416.1	2224.9	1960.9	1638.3	1251.9	882.3	23.8
47°	2677.4	2650.5	2582.9	2499.0	2349.0	2170.5	1911.3	1586.1	1203.8	836.3	19.0
48°	2551.2	2511.6	2448.8	2362.7	2236.0	2072.9	1829.5	1509.5	1130.9	776.1	16.9
49°	2364.8	2341.6	2286.2	2190.1	2085.0	1941.4	1713.8	1411.3	1041.7	710.7	14.8
50°	2193.8	2177.9	2100.3	2029.6	1918.2	1784.1	1557.0	1281.9	930.8	629.4	13.2
51°	2060.2	2041.2	1985.2	1897.1	1778.3	1622.5	1408.7	1114.1	803.6	532.7	10.6
52°	1920.8	1910.3	1860.6	1769.8	1653.1	1497.9	1264.5	971.5	680.0	450.4	8.4
53°	1806.8	1791.5	1730.7	1650.0	1523.8	1363.3	1108.2	839.0	576.0	378.6	7.4
54°	1640.5	1634.1	1595.0	1510.6	1373.8	1199.1	966.7	706.4	480.5	321.0	6.3
55°	1463.6	1442.5	1402.9	1335.8	1210.1	1047.0	803.1	585.5	388.6	270.3	4.8
56°	1248.2	1247.1	1176.4	1120.4	1009.0	835.8	641.5	457.2	315.7	225.4	4.2
57°	1042.2	1009.0	940.9	885.4	765.6	634.1	476.2	342.7	247.1	182.7	3.2
58°	770.9	753.4	735.5	654.2	543.3	449.3	340.0	240.8	182.7	139.4	2.1
59°	523.2	522.7	501.6	439.8	375.9	279.8	212.3	163.7	125.7	102.4	1.6
60°	394.9	385.4	343.2	302.5	236.5	176.9	125.7	96.6	78.1	66.0	1.1
62.5°	138.3	143.6	126.2	104.5	79.7	65.5	50.2	40.7	33.3	26.9	0.0
65°	28.5	31.2	26.9	25.3	20.1	17.4	15.3	13.2	11.1	9.5	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°	3.7	3.2	3.2	3.2	2.6	2.6	2.6	2.6	2.1	2.1	0.5
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1	0.5
72.5°	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	30.6	30.6	30.6	30.6	30.6	30.6
2.5°	32.2	31.2	29.6	29.0	28.5	28.5
5°	31.7	29.6	28.0	26.4	25.9	25.9
7.5°	30.1	27.5	25.3	24.3	23.8	23.2
10°	28.5	24.8	22.7	21.6	21.6	21.6
12.5°	25.3	22.2	20.1	19.5	20.1	20.1
15°	22.7	19.0	18.0	18.0	18.5	19.0
17.5°	19.5	16.9	15.8	16.4	16.9	17.4
20°	17.4	14.3	14.3	14.8	16.4	16.4
22.5°	15.3	12.7	12.7	14.3	15.3	15.8
25°	13.7	11.1	11.6	13.2	14.8	15.3
27.5°	11.6	9.5	10.6	12.7	14.3	14.8
30°	10.0	8.4	10.0	12.1	13.7	14.8
31°	9.5	7.9	10.0	11.6	13.7	14.8
32°	8.4	7.9	9.5	11.6	13.7	14.3
33°	7.9	7.4	9.5	11.6	13.7	14.3
34°	7.4	6.9	9.0	11.6	13.7	14.3
35°	6.3	6.9	9.0	11.1	13.2	14.3
36°	5.8	6.3	9.0	11.1	13.2	14.3
37°	5.3	6.3	8.4	11.1	13.2	14.3
38°	4.8	5.8	8.4	11.1	13.2	14.3
39°	4.2	5.8	7.9	11.1	13.2	14.3
40°	3.7	5.3	7.9	10.6	13.2	14.3
41°	3.7	5.3	7.9	10.6	13.2	14.3
42°	3.2	5.3	7.9	10.6	13.2	14.3
43°	2.6	4.8	7.9	10.6	13.2	14.3
44°	2.1	4.8	7.4	10.6	13.2	14.3
45°	2.1	4.8	7.4	10.6	13.2	14.3
46°	1.6	4.2	7.4	10.6	13.2	14.3
47°	1.1	4.2	7.4	10.0	13.2	14.3
48°	1.1	4.2	7.4	10.0	13.2	14.3
49°	1.1	4.2	6.9	10.0	13.2	14.3
50°	1.1	4.2	6.9	10.0	13.2	14.3
51°	0.5	3.7	6.9	10.0	13.2	14.3
52°	0.5	3.7	6.9	10.0	13.2	14.8
53°	0.5	3.7	6.9	10.0	13.2	14.3
54°	0.5	3.7	6.3	10.0	13.2	14.3
55°	0.5	3.7	6.3	10.0	13.2	14.3
56°	0.5	3.2	6.3	9.5	13.2	14.3
57°	1.1	3.2	6.3	9.5	13.2	13.7
58°	1.1	3.2	6.3	9.5	12.7	13.7
59°	1.1	3.2	6.3	9.5	12.7	13.7
60°	1.1	3.2	5.8	9.5	12.7	13.7
62.5°	1.1	3.2	5.8	9.0	12.1	13.2
65°	1.1	3.2	5.3	8.4	12.1	12.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.1	2.6	5.3	7.9	11.6	12.1
70°	1.6	2.6	4.8	7.9	11.1	11.6
72.5°	1.6	2.6	4.8	6.9	10.0	11.1
75°	1.6	2.6	4.2	6.3	9.5	10.0
77.5°	1.6	2.6	3.7	5.8	8.4	9.0
80°	2.1	2.6	3.2	4.8	7.4	7.9
82.5°	2.1	2.6	2.6	3.7	5.8	6.3
85°	1.6	2.1	2.1	2.6	3.7	4.2
87.5°	1.6	2.1	1.6	1.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)