

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: P1326669

Luminaire Tested: LDSQA3D09R40W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R40W2N902750DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

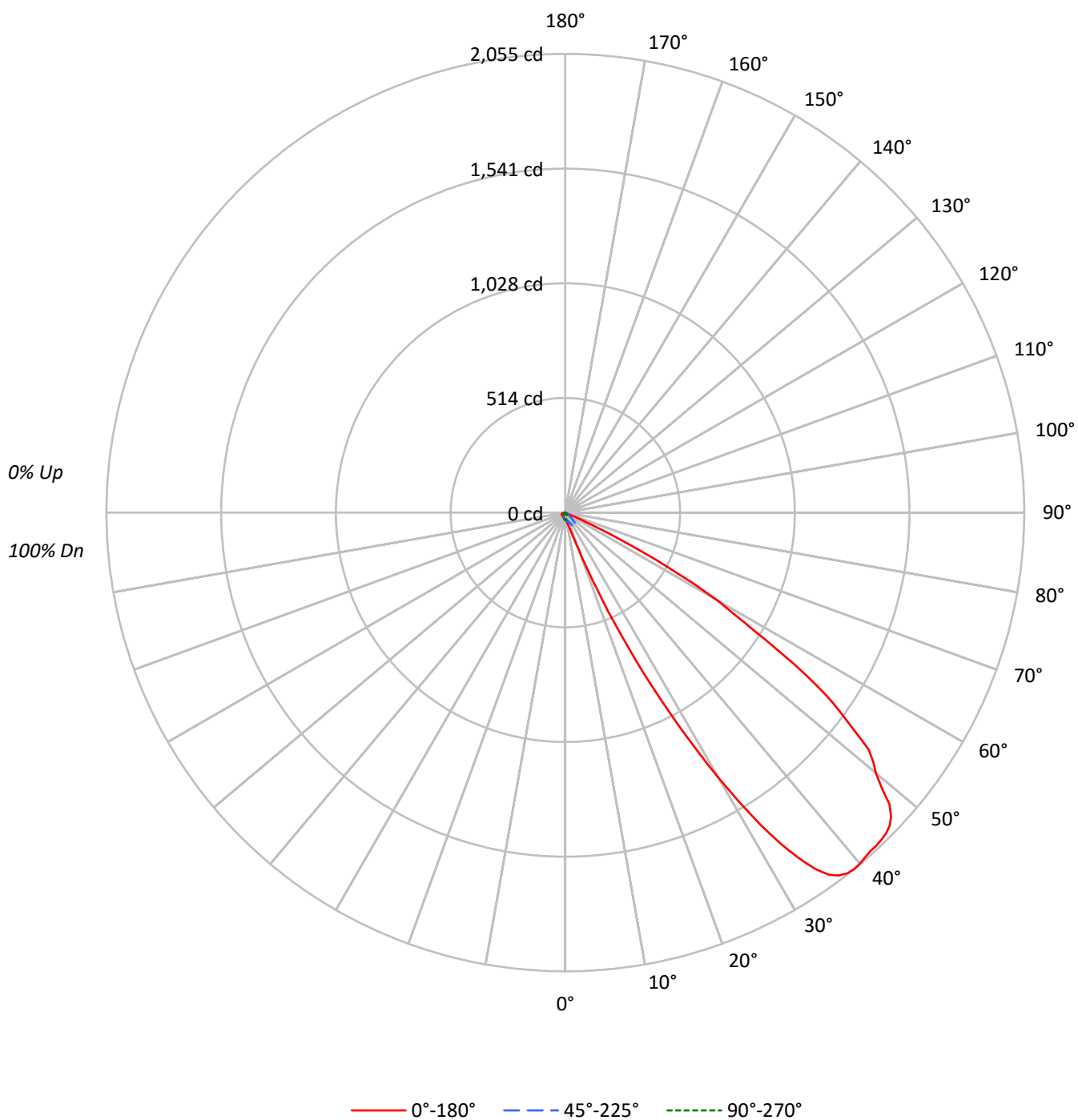
Lumens per Lamp: N/A
Luminaire Lumens: 635.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	99	97	94	96	93	91	92	90	88	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	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	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5632	5632	5632	5632	5632
5°	6258	6051	5549	5048	4944
10°	7555	6418	5106	4582	4494
15°	12374	6971	4368	4047	4154
20°	32696	8229	3629	3629	3959
25°	126102	10204	2888	3325	3877
30°	272068	13563	2327	3242	3818
35°	409515	16063	1955	3196	3932
40°	461355	16120	1709	3282	4204
45°	494694	12495	1559	3410	4555
50°	486241	7824	1393	3590	5010
55°	427782	3843	1411	4023	5615
60°	270768	792	1619	4409	6234
65°	55381	245	1671	4768	6887
70°	1158	302	1762	5287	7906
75°	1131	799	1930	5789	8917
80°	1190	595	2281	6347	10414
85°	1186	1186	4545	6916	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 503639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	10.1	1.6
20°-30°	49.3	7.8
30°-40°	160.4	25.3
40°-50°	221.2	34.8
50°-60°	154.1	24.3
60°-70°	29.2	4.6
70°-80°	5.3	0.8
80°-90°	2.4	0.4
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°	62.4	9.8
0°-40°	222.9	35.1
0°-60°	598.1	94.2
0°-90°	635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	36	35	32	29	29	4
15°	69	39	24	23	23	25
25°	664	54	15	18	20	342
35°	1948	76	9	15	19	1177
45°	2031	51	6	14	19	1545
55°	1425	13	5	13	19	1218
65°	136	1	4	12	17	240
75°	2	1	3	9	13	2
85°	1	1	2	4	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.2	32.7
5°	36.2	36.2	36.2	36.2	35.6	35.6	35.6	35.0	35.0	33.8	32.1
7.5°	38.5	38.5	38.5	38.5	37.9	37.3	36.7	36.7	36.2	33.2	30.9
10°	43.2	43.2	42.6	42.0	41.4	40.2	39.7	38.5	36.7	32.7	29.2
12.5°	52.5	51.3	50.7	49.6	47.8	45.5	43.2	41.4	37.3	31.5	27.4
15°	69.4	68.2	65.9	62.4	58.9	54.2	50.2	46.1	39.1	29.7	24.5
17.5°	99.1	95.6	92.1	86.3	77.6	69.4	60.6	53.1	41.4	28.0	22.2
20°	178.4	176.1	155.1	138.8	112.5	93.9	76.4	63.6	44.9	26.2	19.8
22.5°	368.0	343.5	309.1	253.1	197.1	145.2	105.6	79.9	48.4	23.9	17.5
25°	663.6	625.1	551.1	443.2	327.2	231.5	152.8	104.4	53.7	21.6	15.2
27.5°	1004.8	965.7	850.8	702.1	512.6	349.3	218.1	138.2	60.6	19.2	13.4
30°	1368.1	1334.9	1189.1	983.2	722.5	489.3	292.2	172.6	68.2	16.9	11.7
31°	1514.5	1471.9	1314.4	1095.2	821.1	547.0	321.9	187.2	71.1	16.3	11.1
32°	1649.2	1600.8	1437.5	1202.5	901.0	609.4	354.6	200.0	73.5	15.2	10.5
33°	1765.2	1708.7	1551.2	1303.9	989.0	667.7	388.4	212.3	75.2	14.0	9.9
34°	1863.8	1814.8	1645.7	1406.0	1067.2	723.7	421.6	224.5	76.4	13.4	9.3
35°	1947.8	1903.4	1736.1	1483.6	1143.6	777.9	451.9	236.2	76.4	12.2	9.3
36°	2004.3	1965.8	1814.2	1562.9	1207.7	824.0	477.6	246.7	76.4	11.1	8.7
37°	2035.2	1997.9	1865.5	1628.2	1270.7	869.5	500.9	254.8	75.8	10.5	8.2
38°	2051.0	2018.3	1903.4	1681.2	1314.4	902.1	521.3	261.3	75.2	9.3	8.2
39°	2055.1	2027.6	1927.3	1719.7	1357.0	934.8	535.9	264.8	73.5	8.7	7.6
40°	2052.1	2028.2	1940.2	1754.1	1389.7	960.5	546.4	265.9	71.7	7.6	7.6
41°	2046.3	2027.6	1949.5	1778.1	1415.9	976.8	550.5	263.6	69.4	6.4	7.0
42°	2041.1	2020.6	1953.6	1794.4	1434.0	985.0	549.9	258.9	65.9	5.8	7.0
43°	2041.1	2017.7	1954.2	1804.9	1442.7	985.5	542.9	250.2	61.2	5.2	6.4
44°	2037.6	2016.0	1957.1	1811.9	1445.1	980.3	531.8	240.8	56.0	4.7	6.4
45°	2031.1	2008.4	1956.5	1812.5	1441.0	967.5	513.8	228.6	51.3	3.5	6.4
46°	2018.9	1998.5	1951.3	1808.4	1428.7	948.8	492.2	216.4	46.1	2.9	5.8
47°	1994.4	1978.7	1937.3	1794.4	1410.1	921.4	466.5	202.4	42.0	2.3	5.8
48°	1952.4	1941.3	1913.3	1763.5	1374.5	887.6	439.1	187.2	37.9	2.3	5.8
49°	1875.4	1866.7	1850.4	1713.9	1329.0	846.2	409.4	170.3	33.8	1.7	5.8
50°	1814.8	1805.5	1772.2	1630.5	1263.7	793.7	376.7	153.4	29.2	1.2	5.2
51°	1774.6	1759.4	1706.9	1533.7	1168.7	723.7	341.1	136.5	24.5	1.2	5.2
52°	1723.8	1701.1	1635.8	1446.8	1081.8	653.7	302.7	119.5	21.6	1.2	5.2
53°	1617.7	1609.5	1544.8	1353.5	994.9	586.7	263.0	105.6	18.7	1.2	5.2
54°	1525.0	1512.7	1424.7	1224.1	900.4	512.0	222.2	93.3	15.7	1.2	5.2
55°	1424.7	1400.7	1322.6	1115.0	789.6	443.2	183.1	80.5	12.8	1.2	4.7
56°	1298.1	1277.1	1193.1	998.4	687.5	373.2	153.4	65.9	9.9	1.2	4.7
57°	1144.2	1124.9	1060.2	854.9	581.4	305.0	124.8	53.1	7.6	1.2	4.7
58°	995.5	973.9	899.8	717.3	469.4	242.0	104.4	43.2	5.8	1.2	4.7
59°	881.2	852.0	756.4	602.4	367.4	183.7	82.8	34.4	4.1	1.2	4.7
60°	786.1	762.2	663.1	501.5	288.1	135.3	61.2	26.2	2.3	1.2	4.7
62.5°	455.4	449.0	359.8	258.3	135.9	63.0	30.3	12.2	1.2	1.7	4.7
65°	135.9	118.4	92.1	54.8	35.0	21.0	11.1	4.1	0.6	1.7	4.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.3	1.2	0.6	1.7	4.1
70°	2.3	1.7	1.7	1.7	1.7	1.2	1.2	0.6	0.6	1.7	3.5
72.5°	1.7	1.7	1.7	1.7	1.2	1.2	1.2	0.6	1.2	1.7	2.9
75°	1.7	1.2	1.2	1.2	1.2	0.6	0.6	0.6	1.2	1.7	2.9
77.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.2	1.7	2.9
80°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.7	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):

	112.5°	135°	157.5°	180°
0°	32.7	32.7	32.7	32.7
2.5°	31.5	30.9	30.3	30.3
5°	30.3	29.2	29.2	28.6
7.5°	28.6	27.4	27.4	27.4
10°	26.8	26.2	26.2	25.7
12.5°	24.5	24.5	24.5	24.5
15°	22.7	22.7	23.3	23.3
17.5°	20.4	21.0	22.2	22.7
20°	18.7	19.8	21.0	21.6
22.5°	17.5	18.7	20.4	21.0
25°	15.7	17.5	19.8	20.4
27.5°	14.6	16.9	18.7	19.8
30°	13.4	16.3	18.1	19.2
31°	13.4	15.7	18.1	19.2
32°	12.8	15.2	18.1	18.7
33°	12.8	15.2	18.1	18.7
34°	12.2	15.2	17.5	18.7
35°	12.2	15.2	17.5	18.7
36°	11.7	14.6	17.5	18.7
37°	11.7	14.6	17.5	18.7
38°	11.1	14.6	17.5	18.7
39°	11.1	14.6	17.5	18.7
40°	11.1	14.6	17.5	18.7
41°	10.5	14.6	17.5	18.7
42°	10.5	14.6	17.5	18.7
43°	10.5	14.0	17.5	18.7
44°	10.5	14.0	17.5	18.7
45°	9.9	14.0	17.5	18.7
46°	9.9	14.0	17.5	18.7
47°	9.9	14.0	17.5	18.7
48°	9.9	14.0	17.5	18.7
49°	9.9	14.0	17.5	18.7
50°	9.3	13.4	17.5	18.7
51°	9.3	13.4	17.5	18.7
52°	9.3	13.4	17.5	18.7
53°	9.3	13.4	17.5	18.7
54°	8.7	13.4	17.5	18.7
55°	8.7	13.4	17.5	18.7
56°	8.7	13.4	17.5	18.1
57°	8.7	13.4	16.9	18.1
58°	8.7	12.8	16.9	18.1
59°	8.7	12.8	16.9	18.1
60°	8.7	12.8	16.9	18.1
62.5°	8.2	12.8	16.3	17.5
65°	7.6	11.7	16.3	16.9



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	7.6	11.1	15.2	16.3
70°	7.0	10.5	14.6	15.7
72.5°	5.8	9.9	13.4	14.6
75°	5.2	8.7	12.2	13.4
77.5°	4.7	7.6	11.1	11.7
80°	4.1	6.4	9.3	10.5
82.5°	2.9	4.7	7.6	8.2
85°	2.3	3.5	5.2	5.8
87.5°	1.7	1.7	2.9	2.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)