

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: P1326570

Luminaire Tested: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326570
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

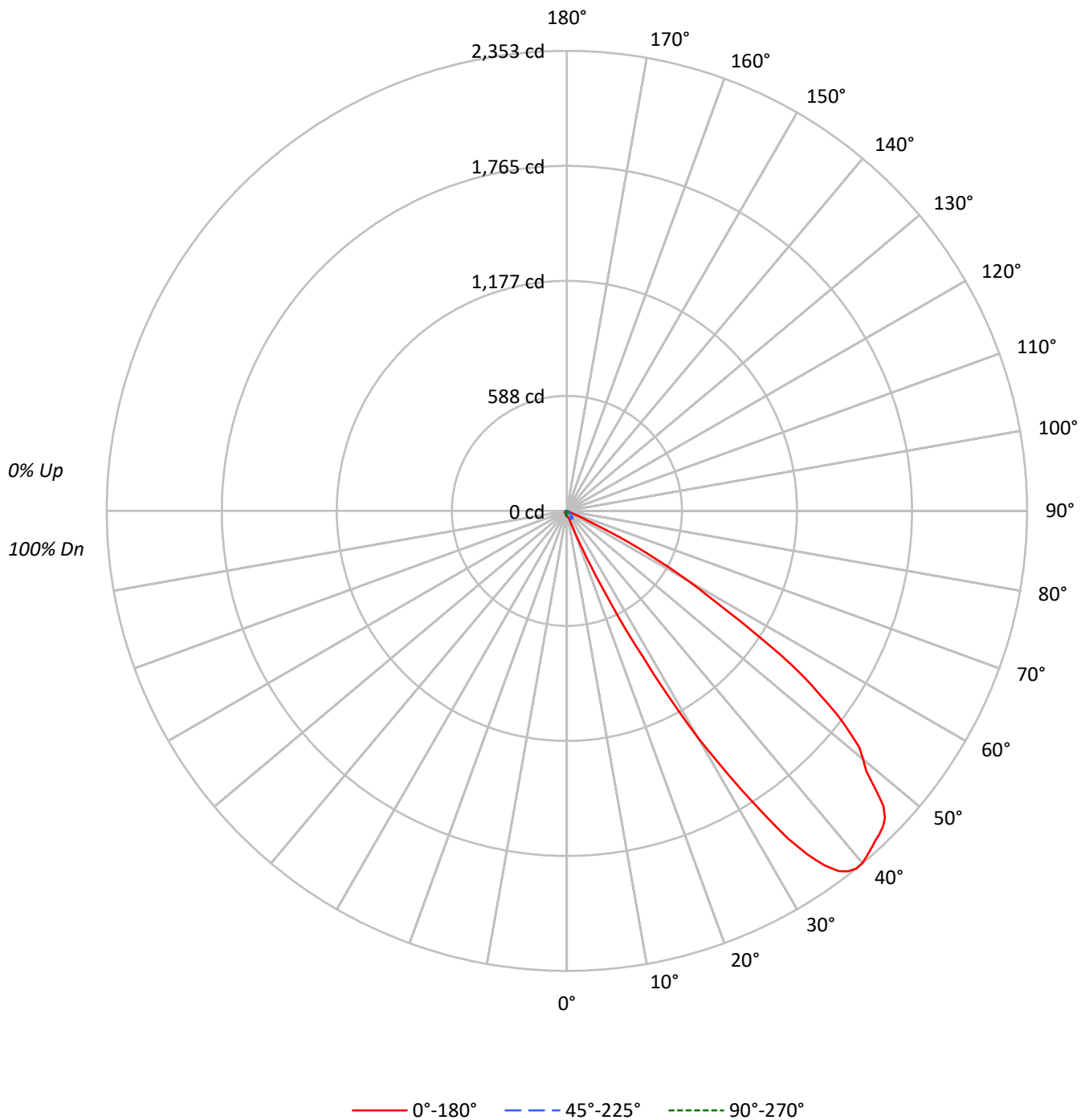
Lumens per Lamp: N/A
Luminaire Lumens: 586.0 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4650	4650	4650	4650	4650
5°	5031	4944	4564	4115	4028
10°	5281	4809	4075	3515	3515
15°	7542	4707	3299	3013	3120
20°	18914	5040	2621	2621	2914
25°	87754	6442	2014	2413	2717
30°	266778	8730	1571	2207	2744
35°	450870	10113	1325	2123	2670
40°	528508	9982	1079	2136	2855
45°	556582	7088	901	2314	3093
50°	529806	4260	857	2411	3403
55°	443936	1742	961	2702	3963
60°	248517	379	1102	3100	4374
65°	42911	204	1060	3464	4972
70°	806	252	1309	3726	5589
75°	732	333	1730	4192	6321
80°	496	496	2083	4761	7339
85°	0	988	4150	5138	8299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 560532 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	6.9	1.2
20°-30°	36.0	6.1
30°-40°	155.3	26.5
40°-50°	221.5	37.8
50°-60°	137.2	23.4
60°-70°	20.9	3.6
70°-80°	3.9	0.7
80°-90°	1.9	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°	45.3	7.7
0°-40°	200.6	34.2
0°-60°	559.3	95.4
0°-90°	586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	29	29	26	24	23	3
15°	42	26	18	17	18	15
25°	462	34	11	13	14	276
35°	2144	48	6	10	13	1288
45°	2285	29	4	10	13	1726
55°	1478	6	3	9	13	1259
65°	105	0	3	8	12	215
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°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.0	26.4
5°	29.1	29.1	28.6	28.6	28.6	28.6	28.6	28.6	27.5	26.4	24.9
7.5°	29.6	29.6	29.1	29.1	29.1	29.1	28.6	28.0	27.0	24.9	23.3
10°	30.2	30.2	30.2	30.2	29.6	29.1	28.6	27.5	25.9	23.3	21.7
12.5°	33.9	33.9	33.3	32.3	31.2	30.2	29.1	27.0	23.8	21.2	19.6
15°	42.3	41.8	40.7	39.1	37.0	34.4	32.3	26.4	21.7	18.5	17.5
17.5°	59.2	58.2	56.6	51.3	46.6	41.8	37.6	26.4	19.6	16.4	15.3
20°	103.2	103.7	92.6	79.9	69.3	57.7	47.1	27.5	17.5	14.3	13.8
22.5°	215.3	206.8	180.4	149.7	114.3	88.3	66.7	30.2	15.3	12.2	12.2
25°	461.8	429.5	365.5	276.1	194.7	138.1	96.8	33.9	13.8	10.6	11.1
27.5°	843.2	814.1	685.6	516.3	342.8	208.4	131.2	38.6	12.2	9.0	10.1
30°	1341.5	1261.1	1093.4	846.4	572.9	319.0	176.2	43.9	10.1	7.9	9.5
31°	1497.0	1460.0	1255.8	979.2	671.3	378.8	195.2	45.5	9.5	7.9	9.0
32°	1681.7	1616.1	1433.0	1124.6	771.3	432.2	217.9	47.1	9.0	6.9	9.0
33°	1846.7	1783.2	1560.5	1252.6	872.3	493.0	242.3	47.6	7.9	6.9	8.5
34°	2020.2	1933.5	1712.9	1386.5	976.0	558.6	264.5	48.1	7.4	6.3	8.5
35°	2144.5	2057.8	1844.1	1492.3	1065.4	616.8	289.9	48.1	6.9	6.3	7.9
36°	2240.8	2164.6	1957.3	1601.3	1154.3	669.2	310.0	48.1	5.8	5.8	7.9
37°	2306.9	2234.5	2033.4	1694.9	1222.0	715.7	328.0	48.1	5.3	5.8	7.9
38°	2339.2	2278.9	2107.0	1763.1	1287.6	752.2	342.3	47.1	4.8	5.3	7.4
39°	2352.9	2303.8	2151.9	1820.8	1336.8	784.0	352.8	46.0	4.2	5.3	7.4
40°	2350.8	2308.0	2177.3	1860.5	1376.4	805.7	358.7	44.4	3.7	4.8	7.4
41°	2338.7	2301.6	2190.5	1894.3	1400.2	820.5	360.2	42.8	3.2	4.8	6.9
42°	2324.9	2291.1	2194.8	1912.3	1415.6	825.2	356.0	40.7	3.2	4.2	6.9
43°	2310.6	2279.4	2194.8	1918.1	1419.3	822.1	349.1	37.0	2.6	4.2	6.9
44°	2299.0	2269.4	2187.9	1916.5	1411.3	809.9	336.4	32.8	2.1	4.2	6.9
45°	2285.2	2256.1	2178.9	1906.5	1396.0	789.3	320.6	29.1	1.6	3.7	6.9
46°	2260.9	2238.2	2163.0	1885.9	1371.7	760.7	300.5	26.4	1.1	3.7	6.3
47°	2213.8	2194.3	2132.4	1855.2	1339.4	726.8	279.8	23.8	1.1	3.7	6.3
48°	2119.1	2118.6	2071.0	1798.0	1288.1	684.5	258.1	21.2	1.1	3.7	6.3
49°	2027.6	2018.1	1958.9	1697.5	1214.6	633.7	235.4	19.0	0.5	3.7	6.3
50°	1977.4	1956.7	1859.4	1579.0	1120.4	563.4	211.1	15.9	0.5	3.2	6.3
51°	1925.0	1895.4	1780.6	1472.2	1008.3	495.7	184.6	12.7	0.5	3.2	5.8
52°	1830.3	1802.3	1673.7	1370.1	899.3	426.4	159.2	10.6	0.5	3.2	6.3
53°	1728.2	1688.0	1548.4	1257.9	803.5	365.0	133.3	9.0	0.5	3.2	5.8
54°	1599.7	1581.7	1421.4	1120.4	691.4	305.8	109.5	7.4	0.5	3.2	5.8
55°	1478.5	1452.1	1285.4	979.7	589.8	250.7	91.5	5.8	0.5	3.2	5.8
56°	1324.1	1284.4	1128.3	850.6	486.7	202.1	77.2	4.8	0.5	3.2	5.8
57°	1140.0	1097.7	974.4	707.3	381.9	153.9	64.5	3.7	0.5	3.2	5.8
58°	964.3	927.8	795.6	545.9	287.8	106.9	53.4	2.6	0.5	2.6	5.8
59°	833.2	793.0	661.8	420.0	200.0	78.8	40.2	2.1	0.5	3.2	5.8
60°	721.5	669.7	532.7	325.3	142.8	56.6	29.6	1.1	1.1	3.2	5.8
62.5°	415.8	367.1	254.4	132.2	58.7	29.1	14.3	0.5	1.1	3.2	5.8
65°	105.3	93.6	60.8	28.6	16.4	10.1	5.3	0.5	1.1	2.6	5.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.7	3.7	3.7	3.2	2.6	2.1	1.1	0.5	1.1	2.6	5.3
70°	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.5	1.1	2.6	4.8
72.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.6	4.2
75°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.6	4.2
77.5°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.1	3.7
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.1	3.2
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.1	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.6	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.1	1.6
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):

	135°	157.5°	180°
0°	27.0	27.0	27.0
2.5°	25.4	25.4	25.4
5°	23.8	23.8	23.3
7.5°	22.2	21.7	21.7
10°	20.1	20.1	20.1
12.5°	18.5	18.5	18.5
15°	16.9	17.5	17.5
17.5°	15.3	16.4	16.4
20°	14.3	15.3	15.9
22.5°	13.2	14.3	14.8
25°	12.7	13.8	14.3
27.5°	11.6	13.2	14.3
30°	11.1	12.7	13.8
31°	11.1	12.7	13.2
32°	10.6	12.7	13.2
33°	10.6	12.7	13.2
34°	10.6	12.2	13.2
35°	10.1	12.2	12.7
36°	10.1	12.2	12.7
37°	10.1	12.2	13.2
38°	10.1	12.2	12.7
39°	9.5	12.2	12.7
40°	9.5	12.2	12.7
41°	9.5	12.2	12.7
42°	9.5	12.2	12.7
43°	9.5	12.2	12.7
44°	9.5	11.6	12.7
45°	9.5	11.6	12.7
46°	9.5	12.2	12.7
47°	9.5	12.2	13.2
48°	9.5	11.6	12.7
49°	9.0	11.6	12.7
50°	9.0	11.6	12.7
51°	9.0	12.2	13.2
52°	9.0	12.2	13.2
53°	9.0	12.2	13.2
54°	9.0	12.2	12.7
55°	9.0	12.2	13.2
56°	9.0	12.2	12.7
57°	9.0	12.2	12.7
58°	9.0	11.6	12.7
59°	9.0	11.6	12.7
60°	9.0	11.6	12.7
62.5°	8.5	11.6	12.7
65°	8.5	11.1	12.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.9	11.1	11.6
70°	7.4	10.6	11.1
72.5°	6.9	10.1	10.6
75°	6.3	9.0	9.5
77.5°	5.3	7.9	9.0
80°	4.8	6.9	7.4
82.5°	3.7	5.8	6.3
85°	2.6	4.2	4.2
87.5°	1.1	2.1	2.1
90°	0.0	0.0	0.0

(END OF REPORT)