

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: P1326384

Luminaire Tested: LDSQA3D09R30W2N902765DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R30W2N902765DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

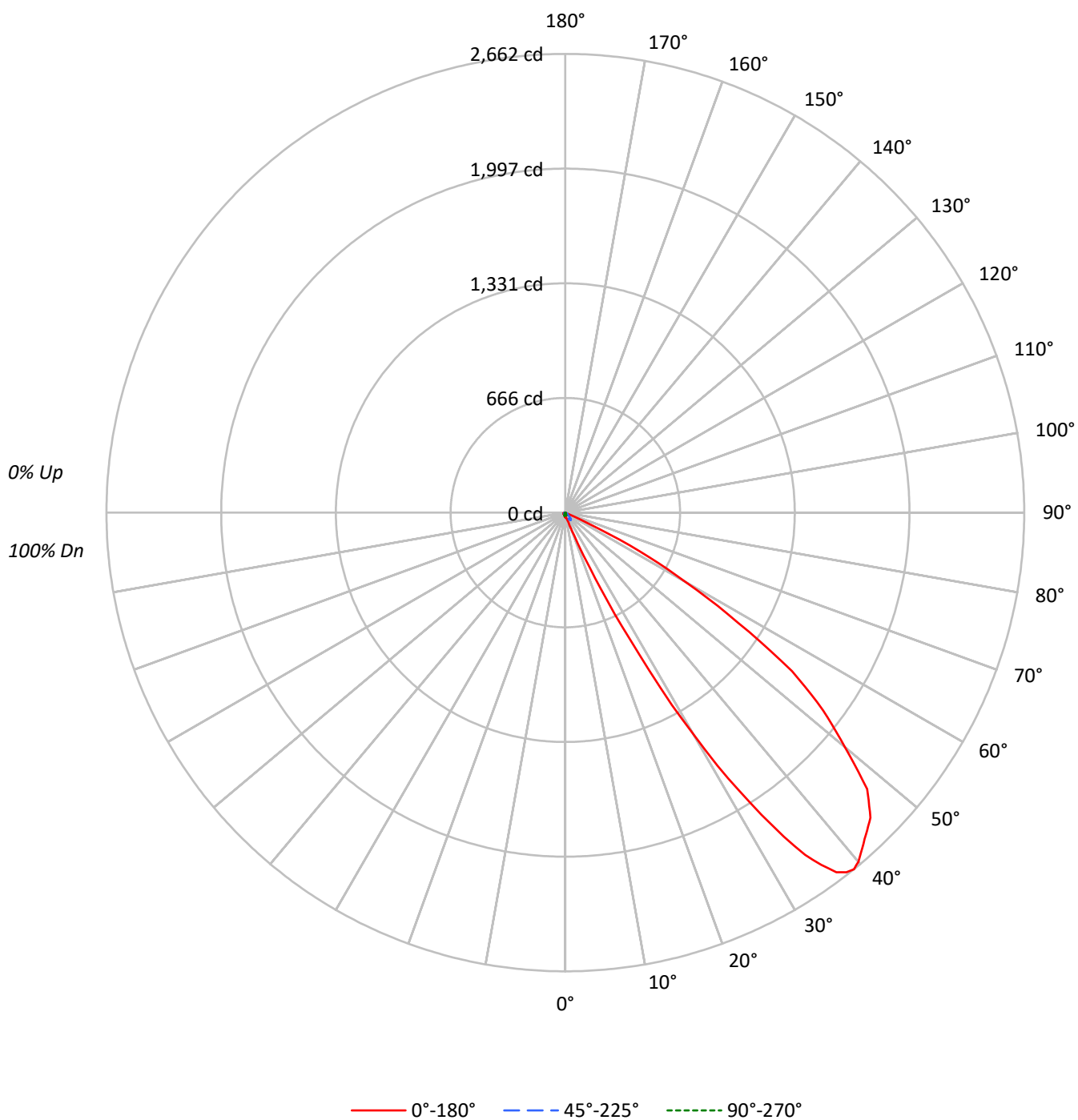
Lumens per Lamp: N/A
Luminaire Lumens: 692.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	108	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	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	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4616	4616	4616	4616	4616
5°	4944	4841	4529	4132	4028
10°	5404	4792	3970	3568	3463
15°	7899	4778	3334	3013	3120
20°	19867	5242	2566	2566	2877
25°	92277	6537	1995	2318	2660
30°	293744	9048	1511	2207	2665
35°	509697	11038	1219	2081	2691
40°	594448	11016	922	2091	2743
45°	609630	7818	999	2265	2971
50°	566942	4367	777	2331	3430
55°	481859	2282	871	2612	3843
60°	278277	586	999	2824	4202
65°	56767	0	1182	3342	4768
70°	856	302	1460	3827	5589
75°	799	399	1530	3859	6588
80°	595	595	2281	4661	7538
85°	0	1186	4545	4545	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 609630 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	7.0	1.0
20°-30°	39.9	5.8
30°-40°	186.4	26.9
40°-50°	263.6	38.1
50°-60°	162.2	23.4
60°-70°	24.7	3.6
70°-80°	3.9	0.6
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°	49.3	7.1
0°-40°	235.7	34.1
0°-60°	661.4	95.6
0°-90°	692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	29	28	26	24	23	3
15°	44	27	19	17	18	16
25°	486	34	10	12	14	299
35°	2424	52	6	10	13	1455
45°	2503	32	4	9	12	1898
55°	1605	8	3	9	13	1366
65°	139	0	3	8	12	252
75°	1	1	2	6	10	1
85°	0	1	2	2	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
2.5°	27.4	27.4	28.0	28.0	27.4	28.0	28.0	28.0	26.8	26.2	25.1
5°	28.6	28.6	28.6	29.1	28.6	28.6	28.0	27.4	26.2	24.5	23.9
7.5°	29.7	29.7	29.1	29.7	29.1	29.1	28.0	26.8	25.1	23.3	22.2
10°	30.9	30.9	30.3	30.3	29.7	29.7	27.4	25.6	22.7	21.0	20.4
12.5°	34.4	34.4	33.8	33.2	32.1	31.5	26.8	23.9	20.4	18.7	18.1
15°	44.3	43.7	42.6	40.8	37.9	37.3	26.8	22.2	18.7	16.9	16.9
17.5°	60.6	60.0	58.3	53.6	48.4	46.6	26.8	19.8	16.3	15.2	15.2
20°	108.4	103.8	95.0	83.4	71.1	64.7	28.6	17.5	14.0	13.4	14.0
21°	141.6	137.0	125.9	106.7	85.1	78.1	29.7	16.9	13.4	12.8	14.0
22°	192.9	187.7	165.0	138.7	107.8	95.6	30.3	15.7	12.2	12.2	13.4
23°	269.3	260.6	222.1	180.1	134.7	117.2	31.5	15.2	11.7	12.2	12.8
24°	352.7	345.1	301.4	238.4	172.0	146.9	32.6	14.6	11.1	11.1	12.2
25°	485.6	476.8	399.3	300.8	218.0	176.6	34.4	13.4	10.5	10.5	12.2
26°	657.5	617.3	514.1	387.6	268.7	221.5	36.1	12.8	9.9	10.5	11.7
27°	820.7	787.5	671.5	497.2	332.3	272.2	38.5	12.2	9.3	9.9	11.7
28°	1035.3	988.6	842.3	629.0	418.5	329.3	40.8	11.7	8.7	9.9	11.1
29°	1275.4	1210.1	1033.5	777.0	515.9	393.5	43.1	11.1	8.2	9.3	11.1
30°	1477.1	1415.9	1239.3	952.5	627.8	478.0	45.5	10.5	7.6	9.3	11.1
31°	1713.8	1621.1	1407.1	1101.1	724.0	562.5	47.8	9.3	7.0	8.7	10.5
32°	1905.5	1840.8	1613.5	1269.0	850.5	655.8	49.5	8.7	7.0	8.7	10.5
33°	2090.9	2004.1	1784.3	1429.9	964.7	751.4	51.3	8.2	6.4	8.2	10.5
34°	2268.1	2188.3	1945.8	1559.9	1072.6	842.3	52.5	7.0	6.4	8.2	9.9
35°	2424.3	2331.6	2088.0	1686.9	1183.3	925.1	52.5	6.4	5.8	7.6	9.9
36°	2525.8	2459.3	2211.6	1812.3	1283.6	1003.8	52.5	5.8	5.2	7.6	9.3
37°	2612.6	2535.1	2310.7	1908.5	1357.6	1066.7	52.5	5.2	5.2	7.6	9.3
38°	2648.2	2581.7	2378.9	1993.6	1427.0	1130.8	51.9	4.7	4.7	7.0	9.3
39°	2662.2	2602.7	2430.2	2054.8	1478.3	1174.0	50.7	4.1	4.7	7.0	9.3
40°	2644.1	2599.2	2456.4	2094.4	1519.1	1205.5	49.0	3.5	4.1	7.0	9.3
42.5°	2569.5	2539.7	2450.6	2134.0	1554.0	1228.8	42.6	2.3	4.1	6.4	9.3
45°	2503.0	2470.4	2391.7	2092.7	1508.6	1182.7	32.1	1.2	4.1	6.4	9.3
47.5°	2374.2	2353.8	2292.0	1987.1	1408.9	1079.0	22.7	0.6	3.5	5.8	8.7
50°	2116.0	2096.7	2015.1	1725.4	1211.9	912.3	16.3	0.6	2.9	5.8	8.7
52.5°	1884.6	1864.2	1747.0	1434.5	930.9	668.6	10.5	0.6	2.9	5.8	8.7
55°	1604.8	1569.2	1415.3	1088.9	659.9	448.3	7.6	0.6	2.9	5.2	8.7
57.5°	1188.0	1136.1	998.5	742.6	380.1	243.1	4.1	0.6	2.9	5.2	8.7
60°	807.9	777.0	624.9	391.7	162.0	102.6	1.7	0.6	2.9	5.2	8.2
62.5°	489.6	450.6	314.2	166.7	69.9	46.6	0.0	1.2	2.9	5.2	8.2
65°	139.3	123.6	82.2	37.9	19.8	15.2	0.0	1.2	2.9	5.2	8.2
67.5°	4.7	4.7	4.7	4.1	2.9	2.9	0.6	1.2	2.9	5.2	7.6
70°	1.7	1.7	1.7	1.2	1.2	0.6	0.6	1.2	2.9	4.7	7.6
72.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	1.2	2.3	4.1	7.0
75°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.7	2.3	4.1	5.8
77.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.7	2.3	3.5	5.8
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.3	3.5	4.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.6	1.7	2.3	2.3	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	2.3	1.7	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	1.7	1.7	1.2
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):

	157.5°	180°
0°	26.8	26.8
2.5°	25.1	25.1
5°	23.3	23.3
7.5°	21.6	21.6
10°	19.8	19.8
12.5°	18.7	18.7
15°	16.9	17.5
17.5°	15.7	16.3
20°	15.2	15.7
21°	15.2	15.7
22°	14.6	15.2
23°	14.6	15.2
24°	14.0	14.6
25°	13.4	14.0
26°	13.4	14.0
27°	13.4	14.0
28°	12.8	14.0
29°	12.8	13.4
30°	12.8	13.4
31°	12.2	13.4
32°	12.2	13.4
33°	12.2	12.8
34°	11.7	12.8
35°	11.7	12.8
36°	11.7	12.8
37°	11.7	12.2
38°	11.7	12.8
39°	11.7	12.2
40°	11.7	12.2
42.5°	11.7	12.2
45°	11.7	12.2
47.5°	11.7	12.8
50°	11.7	12.8
52.5°	11.7	12.8
55°	11.7	12.8
57.5°	11.7	12.2
60°	11.7	12.2
62.5°	11.1	12.2
65°	11.1	11.7
67.5°	11.1	11.7
70°	10.5	11.1
72.5°	9.9	10.5
75°	8.7	9.9
77.5°	8.2	8.7
80°	7.0	7.6



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	5.8	5.8
85°	4.1	4.7
87.5°	2.3	2.3
90°	0.0	0.0

(END OF REPORT)