

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: P1326388

Luminaire Tested: LDSQA3D09R30W2N902765DE010 3LSQCA45R 1MMS_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326388
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_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 6500K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

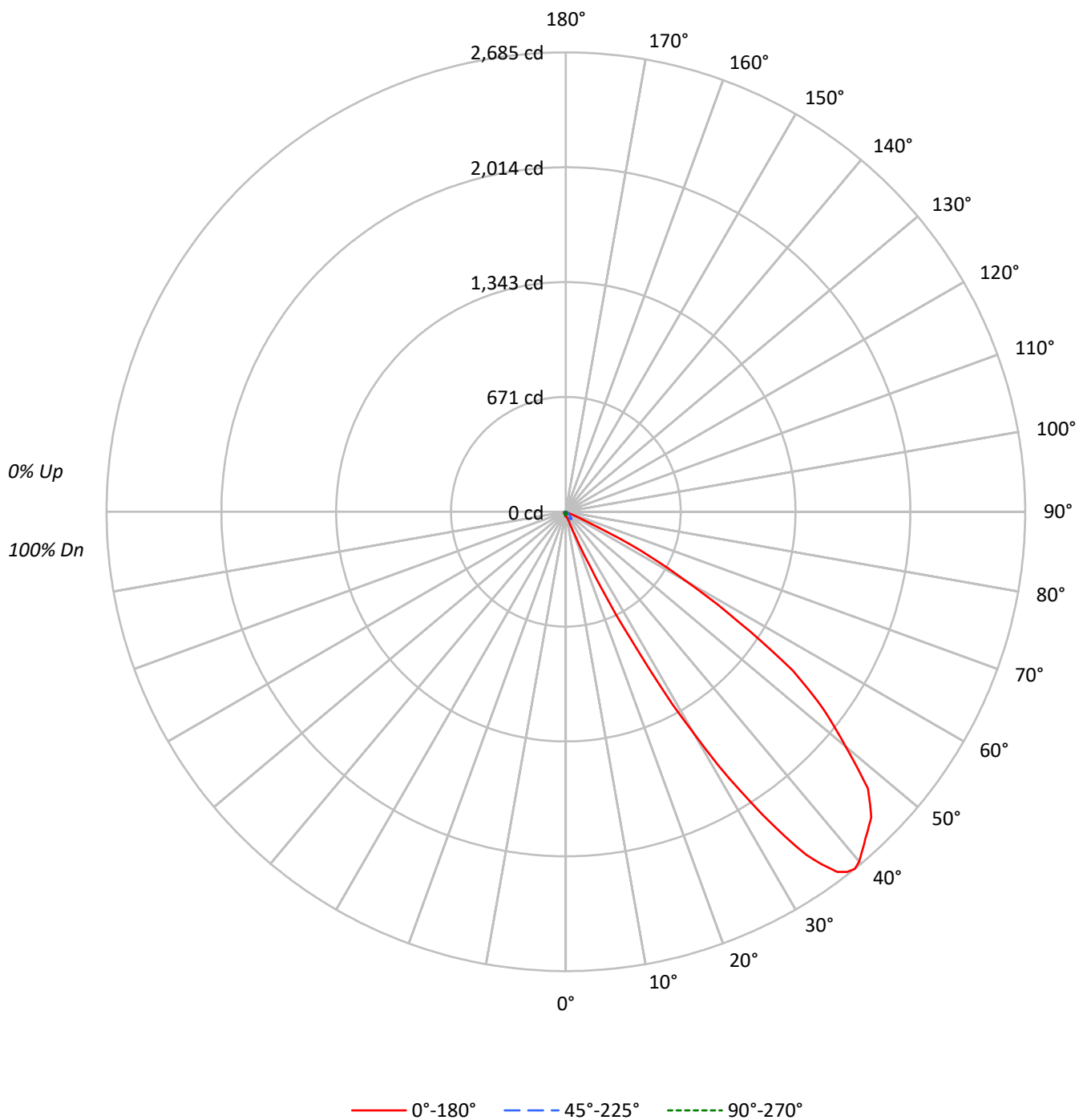
Lumens per Lamp: N/A
Luminaire Lumens: 698.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4650	4650	4650	4650	4650
5°	4979	4875	4581	4166	4063
10°	5456	4827	4005	3603	3498
15°	7970	4814	3352	3049	3138
20°	20050	5278	2584	2584	2914
25°	93075	6594	2014	2337	2679
30°	296290	9128	1511	2227	2685
35°	514112	11122	1240	2102	2712
40°	599597	11106	922	2113	2765
45°	614915	7867	999	2289	2996
50°	571845	4421	777	2358	3456
55°	486032	2282	871	2642	3873
60°	280688	620	999	2824	4237
65°	57256	0	1182	3342	4809
70°	906	302	1460	3827	5640
75°	799	399	1597	3926	6654
80°	595	595	2380	4661	7538
85°	0	1186	4742	4742	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 614915 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°	40.3	5.8
30°-40°	188.0	26.9
40°-50°	265.9	38.1
50°-60°	163.6	23.4
60°-70°	24.9	3.6
70°-80°	4.0	0.6
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°	49.7	7.1
0°-40°	237.7	34.1
0°-60°	667.2	95.6
0°-90°	698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	29	28	26	24	24	3
15°	45	27	19	17	18	16
25°	490	35	11	12	14	301
35°	2445	53	6	10	13	1468
45°	2525	32	4	9	12	1914
55°	1619	8	3	9	13	1377
65°	140	0	3	8	12	254
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°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	27.6	27.6	28.2	28.2	27.6	28.2	28.2	28.2	27.0	26.5	25.3
5°	28.8	28.8	28.8	29.4	28.8	28.8	28.2	27.6	26.5	24.7	24.1
7.5°	30.0	30.0	29.4	30.0	29.4	29.4	28.2	27.0	25.3	23.5	22.3
10°	31.2	31.2	30.6	30.6	30.0	30.0	27.6	25.9	22.9	21.2	20.6
12.5°	34.7	34.7	34.1	33.5	32.3	31.8	27.0	24.1	20.6	18.8	18.2
15°	44.7	44.1	42.9	41.2	38.2	37.6	27.0	22.3	18.8	17.1	17.1
17.5°	61.1	60.6	58.8	54.1	48.8	47.0	27.0	20.0	16.5	15.3	15.3
20°	109.4	104.7	95.8	84.1	71.7	65.3	28.8	17.6	14.1	13.5	14.1
21°	142.9	138.2	127.0	107.6	85.8	78.8	30.0	17.1	13.5	12.9	14.1
22°	194.6	189.3	166.4	139.9	108.8	96.4	30.6	15.9	12.3	12.3	13.5
23°	271.6	262.8	224.0	181.7	135.8	118.2	31.8	15.3	11.8	12.3	12.9
24°	355.7	348.1	304.0	240.5	173.4	148.2	32.9	14.7	11.2	11.2	12.3
25°	489.8	481.0	402.8	303.4	219.9	178.2	34.7	13.5	10.6	10.6	12.3
26°	663.2	622.7	518.6	391.0	271.1	223.4	36.5	12.9	10.0	10.6	11.8
27°	827.9	794.3	677.3	501.5	335.1	274.6	38.8	12.3	9.4	10.0	11.8
28°	1044.2	997.2	849.6	634.4	422.2	332.2	41.2	11.8	8.8	10.0	11.2
29°	1286.5	1220.6	1042.5	783.8	520.3	396.9	43.5	11.2	8.2	9.4	11.2
30°	1489.9	1428.2	1250.0	960.7	633.2	482.1	45.9	10.6	7.6	9.4	11.2
31°	1728.6	1635.1	1419.3	1110.7	730.3	567.4	48.2	9.4	7.1	8.8	10.6
32°	1922.1	1856.8	1627.5	1280.0	857.8	661.5	50.0	8.8	7.1	8.8	10.6
33°	2109.0	2021.4	1799.8	1442.3	973.1	757.9	51.7	8.2	6.5	8.2	10.6
34°	2287.8	2207.2	1962.6	1573.4	1081.9	849.6	52.9	7.1	6.5	8.2	10.0
35°	2445.3	2351.9	2106.1	1701.6	1193.6	933.1	52.9	6.5	5.9	7.6	10.0
36°	2547.7	2480.6	2230.7	1828.0	1294.7	1012.5	52.9	5.9	5.3	7.6	9.4
37°	2635.3	2557.1	2330.7	1925.0	1369.4	1076.0	52.9	5.3	5.3	7.6	9.4
38°	2671.1	2604.1	2399.5	2010.8	1439.3	1140.7	52.3	4.7	4.7	7.1	9.4
39°	2685.2	2625.3	2451.2	2072.6	1491.1	1184.2	51.2	4.1	4.7	7.1	9.4
40°	2667.0	2621.7	2477.7	2112.6	1532.2	1215.9	49.4	3.5	4.1	7.1	9.4
42.5°	2591.8	2561.8	2471.8	2152.5	1567.5	1239.4	42.9	2.4	4.1	6.5	9.4
45°	2524.7	2491.8	2412.4	2110.8	1521.7	1193.0	32.3	1.2	4.1	6.5	9.4
47.5°	2394.8	2374.2	2311.9	2004.4	1421.1	1088.3	22.9	0.6	3.5	5.9	8.8
50°	2134.3	2114.9	2032.6	1740.4	1222.4	920.2	16.5	0.6	2.9	5.9	8.8
52.5°	1900.9	1880.3	1762.1	1447.0	939.0	674.4	10.6	0.6	2.9	5.9	8.8
55°	1618.7	1582.8	1427.6	1098.3	665.6	452.1	7.6	0.6	2.9	5.3	8.8
57.5°	1198.3	1145.9	1007.2	749.1	383.4	245.2	4.1	0.6	2.9	5.3	8.8
60°	814.9	783.8	630.3	395.1	163.5	103.5	1.8	0.6	2.9	5.3	8.2
62.5°	493.9	454.5	316.9	168.2	70.6	47.0	0.0	1.2	2.9	5.3	8.2
65°	140.5	124.6	82.9	38.2	20.0	15.3	0.0	1.2	2.9	5.3	8.2
67.5°	4.7	4.7	4.7	4.1	2.9	2.9	0.6	1.2	2.9	5.3	7.6
70°	1.8	1.8	1.8	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	2.4	4.1	7.1
75°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.8	2.4	4.1	5.9
77.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.8	2.4	3.5	5.9
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4	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	1.8	2.4	2.4	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.4	1.8	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.8	1.8	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°	27.0	27.0
2.5°	25.3	25.3
5°	23.5	23.5
7.5°	21.8	21.8
10°	20.0	20.0
12.5°	18.8	18.8
15°	17.1	17.6
17.5°	15.9	16.5
20°	15.3	15.9
21°	15.3	15.9
22°	14.7	15.3
23°	14.7	15.3
24°	14.1	14.7
25°	13.5	14.1
26°	13.5	14.1
27°	13.5	14.1
28°	12.9	14.1
29°	12.9	13.5
30°	12.9	13.5
31°	12.3	13.5
32°	12.3	13.5
33°	12.3	12.9
34°	11.8	12.9
35°	11.8	12.9
36°	11.8	12.9
37°	11.8	12.3
38°	11.8	12.9
39°	11.8	12.3
40°	11.8	12.3
42.5°	11.8	12.3
45°	11.8	12.3
47.5°	11.8	12.9
50°	11.8	12.9
52.5°	11.8	12.9
55°	11.8	12.9
57.5°	11.8	12.3
60°	11.8	12.3
62.5°	11.2	12.3
65°	11.2	11.8
67.5°	11.2	11.8
70°	10.6	11.2
72.5°	10.0	10.6
75°	8.8	10.0
77.5°	8.2	8.8
80°	7.1	7.6

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	5.9	5.9
85°	4.1	4.7
87.5°	2.4	2.4
90°	0.0	0.0

(END OF REPORT)