

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: P1326386

Luminaire Tested: LDSQA3D09R30W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326386
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_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

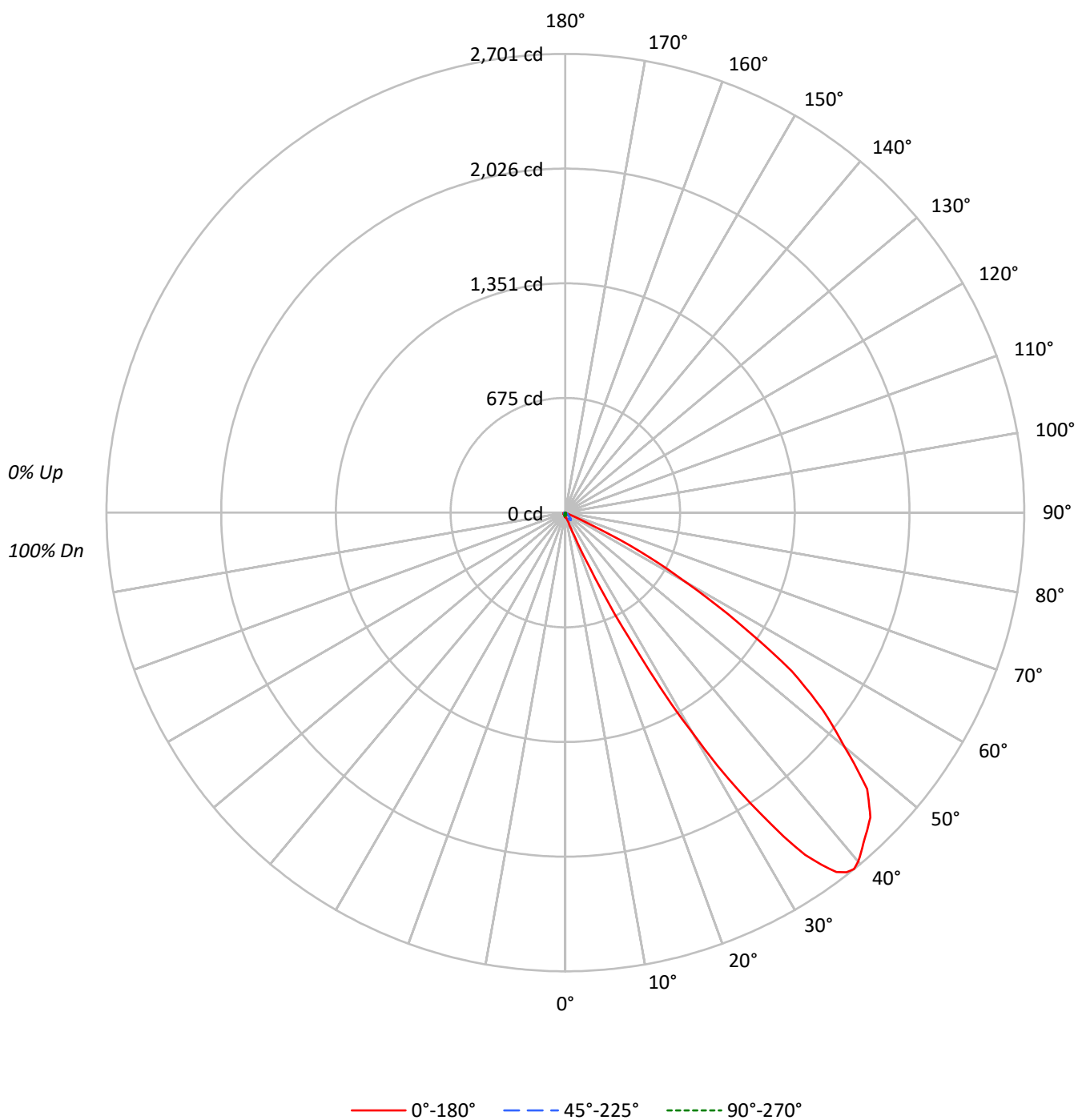
Lumens per Lamp: N/A
Luminaire Lumens: 702.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4684	4684	4684	4684	4684
5°	5014	4910	4599	4184	4097
10°	5474	4862	4040	3620	3515
15°	8006	4850	3370	3049	3156
20°	20160	5315	2603	2603	2932
25°	93607	6632	2014	2356	2698
30°	297980	9168	1531	2227	2705
35°	517077	11185	1240	2123	2733
40°	603037	11174	922	2136	2788
45°	618447	7916	999	2314	3020
50°	575114	4448	804	2385	3483
55°	488795	2312	901	2672	3903
60°	282307	620	1033	2859	4271
65°	57582	0	1223	3382	4809
70°	906	302	1511	3877	5640
75°	799	399	1597	3926	6721
80°	595	595	2380	4661	7637
85°	0	1186	4742	4742	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 618447 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.4
10°-20°	7.1	1.0
20°-30°	40.5	5.8
30°-40°	189.1	26.9
40°-50°	267.4	38.1
50°-60°	164.5	23.4
60°-70°	25.1	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°	50.0	7.1
0°-40°	239.1	34.1
0°-60°	671.0	95.6
0°-90°	702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	702.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	29	28	27	24	24	3
15°	45	27	19	17	18	16
25°	493	35	11	12	14	303
35°	2459	53	6	10	13	1476
45°	2539	32	4	10	12	1925
55°	1628	8	3	9	13	1385
65°	141	0	3	8	12	256
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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	27.8	27.8	28.4	28.4	27.8	28.4	28.4	28.4	27.2	26.6	25.4
5°	29.0	29.0	29.0	29.6	29.0	29.0	28.4	27.8	26.6	24.8	24.2
7.5°	30.2	30.2	29.6	30.2	29.6	29.6	28.4	27.2	25.4	23.7	22.5
10°	31.3	31.3	30.7	30.7	30.2	30.2	27.8	26.0	23.1	21.3	20.7
12.5°	34.9	34.9	34.3	33.7	32.5	31.9	27.2	24.2	20.7	18.9	18.3
15°	44.9	44.4	43.2	41.4	38.4	37.8	27.2	22.5	18.9	17.1	17.1
17.5°	61.5	60.9	59.1	54.4	49.1	47.3	27.2	20.1	16.6	15.4	15.4
20°	110.0	105.3	96.4	84.6	72.1	65.6	29.0	17.7	14.2	13.6	14.2
21°	143.7	139.0	127.7	108.2	86.3	79.2	30.2	17.1	13.6	13.0	14.2
22°	195.7	190.4	167.3	140.7	109.4	97.0	30.7	16.0	12.4	12.4	13.6
23°	273.2	264.3	225.3	182.7	136.6	118.9	31.9	15.4	11.8	12.4	13.0
24°	357.8	350.1	305.7	241.9	174.4	149.0	33.1	14.8	11.2	11.2	12.4
25°	492.6	483.7	405.1	305.1	221.2	179.2	34.9	13.6	10.6	10.6	12.4
26°	667.0	626.2	521.6	393.2	272.6	224.7	36.7	13.0	10.1	10.6	11.8
27°	832.6	798.9	681.2	504.4	337.1	276.2	39.0	12.4	9.5	10.1	11.8
28°	1050.2	1002.9	854.5	638.1	424.6	334.1	41.4	11.8	8.9	10.1	11.2
29°	1293.8	1227.6	1048.4	788.2	523.3	399.2	43.8	11.2	8.3	9.5	11.2
30°	1498.4	1436.4	1257.2	966.2	636.9	484.9	46.1	10.6	7.7	9.5	11.2
31°	1738.5	1644.5	1427.5	1117.0	734.4	570.6	48.5	9.5	7.1	8.9	10.6
32°	1933.1	1867.4	1636.8	1287.3	862.8	665.3	50.3	8.9	7.1	8.9	10.6
33°	2121.1	2033.0	1810.1	1450.5	978.7	762.2	52.0	8.3	6.5	8.3	10.6
34°	2300.9	2219.9	1973.9	1582.4	1088.1	854.5	53.2	7.1	6.5	8.3	10.1
35°	2459.4	2365.3	2118.2	1711.3	1200.4	938.4	53.2	6.5	5.9	7.7	10.1
36°	2562.3	2494.8	2243.5	1838.5	1302.1	1018.3	53.2	5.9	5.3	7.7	9.5
37°	2650.4	2571.7	2344.1	1936.0	1377.2	1082.1	53.2	5.3	5.3	7.7	9.5
38°	2686.4	2619.0	2413.2	2022.4	1447.6	1147.2	52.6	4.7	4.7	7.1	9.5
39°	2700.6	2640.3	2465.3	2084.5	1499.6	1190.9	51.4	4.1	4.7	7.1	9.5
40°	2682.3	2636.8	2491.9	2124.7	1541.0	1222.9	49.7	3.5	4.1	7.1	9.5
42.5°	2606.6	2576.4	2486.0	2164.9	1576.5	1246.5	43.2	2.4	4.1	6.5	9.5
45°	2539.2	2506.1	2426.2	2122.9	1530.4	1199.8	32.5	1.2	4.1	6.5	9.5
47.5°	2408.5	2387.8	2325.1	2015.9	1429.3	1094.6	23.1	0.6	3.5	5.9	8.9
50°	2146.5	2127.0	2044.2	1750.4	1229.4	925.4	16.6	0.6	3.0	5.9	8.9
52.5°	1911.8	1891.1	1772.2	1455.3	944.4	678.3	10.6	0.6	3.0	5.9	8.9
55°	1627.9	1591.9	1435.8	1104.6	669.4	454.7	7.7	0.6	3.0	5.3	8.9
57.5°	1205.1	1152.5	1013.0	753.4	385.6	246.6	4.1	0.6	3.0	5.3	8.9
60°	819.6	788.2	633.9	397.4	164.4	104.1	1.8	0.6	3.0	5.3	8.3
62.5°	496.7	457.1	318.7	169.1	71.0	47.3	0.0	1.2	3.0	5.3	8.3
65°	141.3	125.4	83.4	38.4	20.1	15.4	0.0	1.2	3.0	5.3	8.3
67.5°	4.7	4.7	4.7	4.1	3.0	3.0	0.6	1.2	3.0	5.3	7.7
70°	1.8	1.8	1.8	1.2	1.2	0.6	0.6	1.2	3.0	4.7	7.7
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°	27.2	27.2
2.5°	25.4	25.4
5°	23.7	23.7
7.5°	21.9	21.9
10°	20.1	20.1
12.5°	18.9	18.9
15°	17.1	17.7
17.5°	16.0	16.6
20°	15.4	16.0
21°	15.4	16.0
22°	14.8	15.4
23°	14.8	15.4
24°	14.2	14.8
25°	13.6	14.2
26°	13.6	14.2
27°	13.6	14.2
28°	13.0	14.2
29°	13.0	13.6
30°	13.0	13.6
31°	12.4	13.6
32°	12.4	13.6
33°	12.4	13.0
34°	11.8	13.0
35°	11.8	13.0
36°	11.8	13.0
37°	11.8	12.4
38°	11.8	13.0
39°	11.8	12.4
40°	11.8	12.4
42.5°	11.8	12.4
45°	11.8	12.4
47.5°	11.8	13.0
50°	11.8	13.0
52.5°	11.8	13.0
55°	11.8	13.0
57.5°	11.8	12.4
60°	11.8	12.4
62.5°	11.2	12.4
65°	11.2	11.8
67.5°	11.2	11.8
70°	10.6	11.2
72.5°	10.1	10.6
75°	8.9	10.1
77.5°	8.3	8.9
80°	7.1	7.7



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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)