

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: P1325850

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R15W2N902765DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

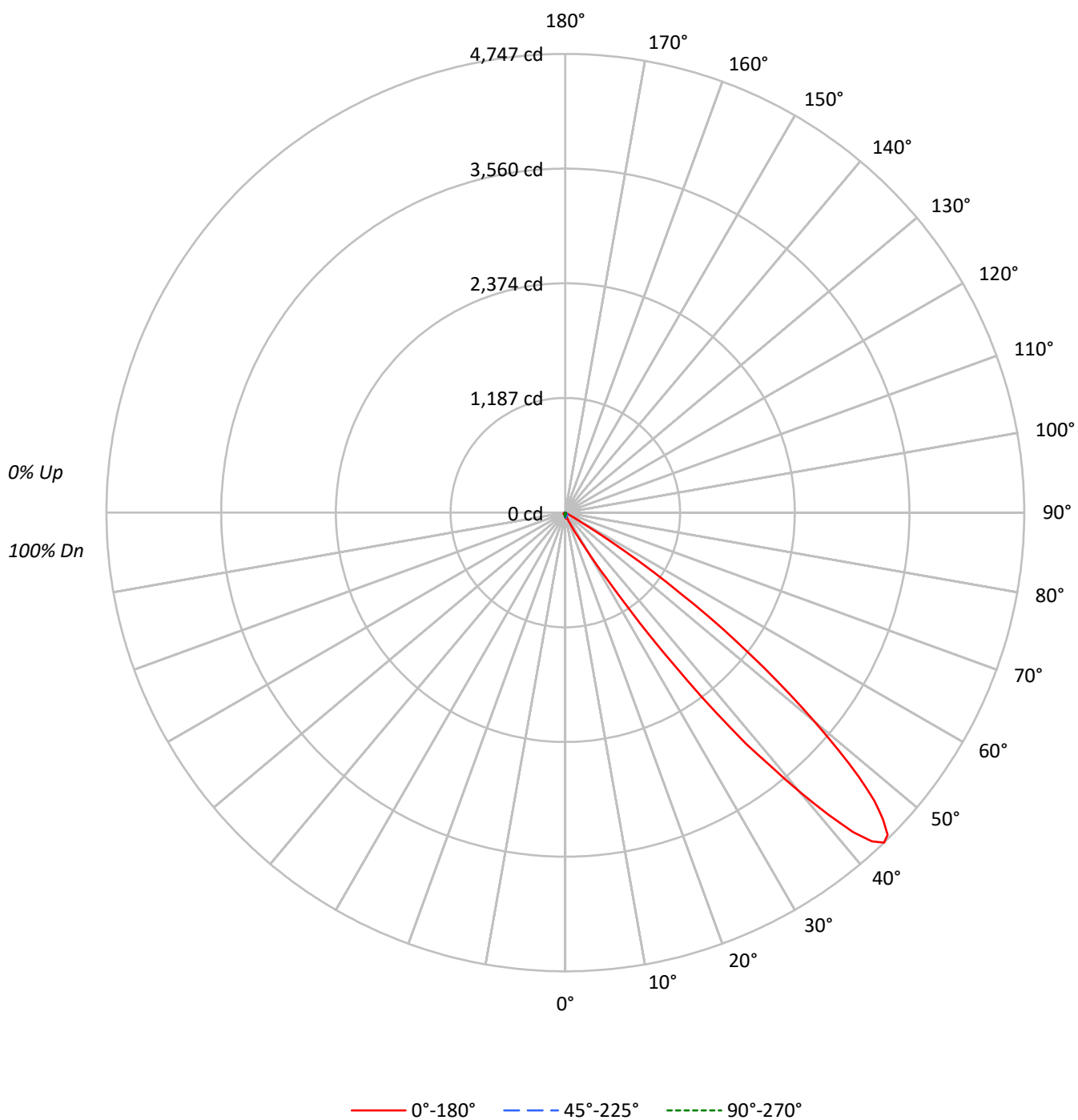
Lumens per Lamp: N/A
Luminaire Lumens: 530.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8094	8094	8094	8094	8094
5°	10044	8955	7313	6397	6310
10°	9881	7677	5631	4984	5089
15°	8202	5474	4047	4154	4422
20°	14241	4362	3097	3592	4069
25°	31734	5226	2508	3306	3820
30°	94899	6403	2207	3261	3997
35°	365322	7211	1997	3343	4226
40°	847934	6295	1911	3440	4519
45°	1148481	4774	1681	3726	4896
50°	900516	2840	1688	3965	5385
55°	432226	1261	1591	4294	5885
60°	39508	172	1447	4547	6544
65°	4320	0	1304	4727	7091
70°	1057	0	1611	5035	7704
75°	1065	333	2129	5656	8784
80°	1091	1091	2579	5752	9422
85°	988	988	4150	5138	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1148481 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.8
10°-20°	8.4	1.6
20°-30°	20.0	3.8
30°-40°	109.6	20.7
40°-50°	265.5	50.1
50°-60°	105.9	20.0
60°-70°	9.2	1.7
70°-80°	5.2	1.0
80°-90°	2.3	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°	32.4	6.1
0°-40°	142.0	26.8
0°-60°	513.4	96.9
0°-90°	530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	58	52	42	37	36	5
15°	46	31	23	23	25	16
25°	167	28	13	17	20	101
35°	1738	34	10	16	20	1228
45°	4715	20	7	15	20	3326
55°	1440	4	5	14	20	1341
65°	11	0	3	12	17	27
75°	2	0	3	8	13	2
85°	0	0	2	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
2.5°	52.8	52.8	53.4	52.8	52.8	52.8	52.8	52.3	52.3	52.3	50.7
5°	58.1	58.1	58.1	58.1	57.6	57.6	57.6	57.1	57.1	56.5	51.8
7.5°	60.2	60.2	59.7	59.7	59.2	59.2	58.7	58.1	57.6	57.1	49.7
10°	56.5	56.5	56.5	56.0	56.0	55.5	55.0	54.4	53.9	52.8	43.9
12.5°	50.2	50.2	50.7	50.2	49.7	49.1	48.1	47.6	47.0	46.0	36.5
15°	46.0	46.0	46.0	45.4	44.9	43.9	43.3	42.3	41.7	40.2	30.7
17.5°	58.7	58.7	58.1	57.1	55.0	53.4	50.7	48.6	46.0	42.8	26.4
20°	77.7	77.7	76.6	75.6	72.9	70.3	66.1	62.4	58.1	54.4	23.8
22.5°	112.6	114.1	111.0	107.3	103.6	97.2	91.4	85.6	78.2	71.9	24.3
25°	167.0	168.6	167.0	158.5	151.7	143.2	132.1	120.5	107.8	96.2	27.5
27.5°	270.6	271.6	269.0	248.4	237.3	215.1	195.5	176.5	155.4	134.2	30.1
30°	477.2	477.7	460.8	419.6	383.1	334.5	293.3	253.7	220.4	186.5	32.2
31°	628.3	613.5	577.6	527.9	469.8	404.3	347.7	296.5	246.8	210.3	32.8
32°	798.0	795.9	736.1	650.0	572.3	490.4	405.3	339.8	282.7	233.1	33.3
33°	1022.6	1023.6	929.6	828.1	700.7	590.8	479.3	389.5	320.8	260.0	34.3
34°	1373.5	1291.0	1180.6	1043.2	869.8	704.4	559.6	447.1	355.1	285.9	34.3
35°	1737.6	1654.6	1533.1	1324.8	1087.0	855.6	655.3	508.9	396.3	313.9	34.3
36°	2145.5	2075.3	1891.4	1625.5	1322.2	998.3	756.8	580.2	437.0	339.3	33.8
37°	2586.3	2483.2	2279.2	1989.1	1583.3	1199.1	880.4	651.1	477.7	366.8	32.8
38°	3033.9	2940.9	2683.5	2332.1	1895.1	1411.0	1004.1	719.2	515.2	387.4	31.2
39°	3373.2	3322.4	3067.2	2674.5	2144.0	1611.8	1131.4	792.2	554.9	408.0	29.6
40°	3771.6	3689.7	3447.7	2962.0	2438.3	1816.3	1256.1	856.6	587.6	424.4	28.0
41°	4135.2	4031.6	3726.2	3256.9	2674.0	2000.2	1374.5	923.2	614.1	433.9	27.0
42°	4447.0	4326.5	4007.3	3509.5	2871.1	2147.1	1469.1	970.8	638.9	441.8	25.4
43°	4648.9	4544.8	4230.8	3699.2	3039.7	2281.9	1557.4	1020.5	654.2	447.1	23.3
44°	4747.2	4642.0	4338.1	3818.1	3143.3	2362.7	1614.4	1054.8	671.1	453.9	21.7
45°	4715.4	4608.7	4314.9	3820.2	3175.5	2391.8	1638.8	1070.1	680.1	460.3	19.6
46°	4570.1	4495.1	4199.1	3720.9	3114.2	2360.6	1625.0	1058.5	677.0	460.3	17.4
47°	4366.1	4280.5	3998.9	3550.2	2965.7	2280.3	1569.5	1023.1	657.4	449.7	15.3
48°	4088.2	4015.2	3719.3	3279.1	2738.0	2105.4	1444.3	965.5	626.8	429.1	13.2
49°	3739.4	3637.9	3362.6	2932.4	2441.0	1857.0	1279.9	868.3	577.6	400.0	11.6
50°	3361.0	3235.8	3023.3	2585.2	2133.9	1592.2	1063.8	734.0	508.4	362.0	10.6
51°	2990.6	2863.2	2660.8	2288.2	1806.3	1321.1	858.2	586.1	418.5	309.7	9.0
52°	2606.4	2499.6	2272.9	1980.1	1546.3	1070.7	715.0	495.7	347.7	260.0	7.4
53°	2223.8	2150.8	1935.2	1638.8	1242.4	874.6	583.9	424.4	303.3	222.5	5.8
54°	1840.6	1760.8	1597.0	1332.8	1001.4	690.2	495.2	355.1	263.2	193.9	5.3
55°	1439.5	1398.3	1247.2	1016.2	758.9	550.7	401.6	305.4	220.4	162.2	4.2
56°	1108.7	1062.2	924.3	737.2	563.9	431.2	325.0	249.4	186.5	135.8	3.2
57°	726.1	678.5	587.1	514.7	410.6	314.4	248.4	196.6	151.7	112.6	2.6
58°	429.1	385.8	371.5	317.1	273.7	213.5	183.4	146.4	112.0	88.8	1.6
59°	197.1	200.3	178.1	167.0	151.7	135.8	111.5	97.8	76.6	63.9	1.1
60°	114.7	108.3	105.7	94.6	84.0	74.5	67.1	59.2	48.1	41.2	0.5
62.5°	39.1	37.5	38.6	34.9	32.8	31.7	29.1	24.8	20.6	16.9	0.0
65°	10.6	10.6	10.0	9.5	9.0	8.5	7.9	6.9	6.3	5.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	3.7	3.7	3.2	3.2	2.6	2.6	2.1	2.1	1.6	1.6	0.0
70°	2.1	2.1	2.1	1.6	1.6	1.6	1.1	1.1	1.1	0.5	0.0
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	0.5	0.5
75°	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.5
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.5	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	47.0	47.0	47.0	47.0	47.0	47.0
2.5°	48.6	46.5	43.9	42.3	41.7	41.2
5°	46.5	42.3	39.1	37.0	36.5	36.5
7.5°	41.7	37.0	33.8	32.8	32.2	32.2
10°	36.5	32.2	29.6	28.5	29.1	29.1
12.5°	30.7	27.0	25.9	25.9	26.4	27.0
15°	24.8	22.7	22.7	23.3	24.3	24.8
17.5°	20.6	19.6	20.1	21.1	22.2	23.3
20°	16.9	16.9	18.0	19.6	21.1	22.2
22.5°	14.3	14.8	16.4	18.0	20.1	21.1
25°	12.2	13.2	14.8	17.4	19.6	20.1
27.5°	10.6	12.2	14.3	16.9	19.0	20.1
30°	9.0	11.1	13.7	16.4	19.0	20.1
31°	8.5	10.6	13.2	16.4	19.0	20.1
32°	7.9	10.6	13.2	16.4	19.0	20.1
33°	7.4	10.0	13.2	15.9	19.0	20.1
34°	6.9	10.0	13.2	16.4	19.0	20.1
35°	6.3	9.5	12.7	15.9	18.5	20.1
36°	5.8	9.5	12.7	15.9	19.0	20.1
37°	5.3	9.5	12.7	15.9	18.5	20.1
38°	5.3	9.0	12.2	15.9	18.5	20.1
39°	4.8	8.5	12.2	15.9	18.5	20.1
40°	4.2	8.5	11.6	15.3	18.5	20.1
41°	3.7	7.9	11.6	15.3	18.5	20.1
42°	3.2	7.9	11.6	15.3	18.5	20.1
43°	2.6	7.4	11.1	15.3	18.5	20.1
44°	2.6	7.4	11.1	15.3	18.5	20.1
45°	2.1	6.9	10.6	15.3	18.5	20.1
46°	2.1	6.9	10.6	14.8	18.5	20.1
47°	1.6	6.9	10.6	14.8	18.5	20.1
48°	1.6	6.3	10.6	14.8	18.5	20.1
49°	1.1	6.3	10.6	14.8	18.5	20.1
50°	1.1	6.3	10.0	14.8	18.5	20.1
51°	1.1	6.3	10.0	14.8	18.5	20.1
52°	1.1	5.8	10.0	14.8	18.5	20.1
53°	1.1	5.8	10.0	14.8	18.5	20.1
54°	1.1	5.8	9.5	14.8	18.5	20.1
55°	1.1	5.3	9.5	14.3	18.5	19.6
56°	1.1	5.3	9.5	14.3	18.5	19.6
57°	1.1	5.3	9.0	14.3	18.5	19.6
58°	1.1	4.8	9.0	13.7	18.0	19.6
59°	1.1	4.8	8.5	13.7	18.0	19.0
60°	1.1	4.2	8.5	13.2	17.4	19.0
62.5°	1.1	3.7	7.4	12.7	16.9	18.0
65°	1.1	3.2	6.9	11.6	16.4	17.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.1	3.2	6.3	11.1	15.3	16.9
70°	1.1	3.2	5.8	10.0	14.8	15.3
72.5°	1.6	3.2	5.3	9.5	13.7	14.3
75°	2.1	3.2	4.8	8.5	12.7	13.2
77.5°	2.1	3.2	4.2	7.4	11.1	11.6
80°	2.1	2.6	3.7	5.8	9.0	9.5
82.5°	2.1	2.6	2.6	4.8	6.9	7.4
85°	1.6	2.1	2.1	2.6	4.8	5.3
87.5°	1.6	2.1	1.1	1.6	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)