

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: P1324163

Luminaire Tested: LDSQA3D05R15W2N902750DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324163
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: LDSQA3D05R15W2N902750DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

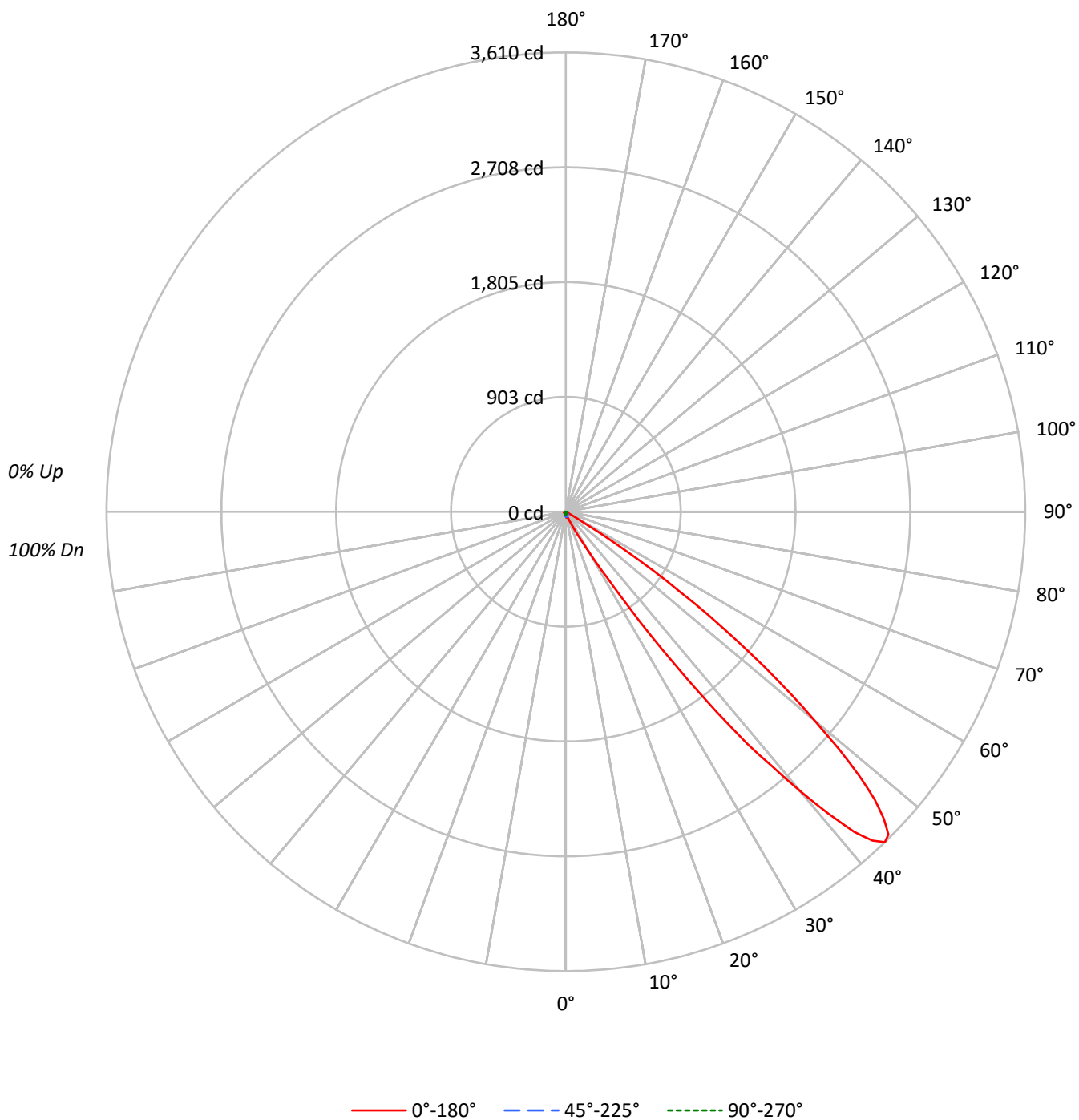
Lumens per Lamp: N/A
Luminaire Lumens: 403.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	53	53	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	35
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	26	26	24
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6166	6166	6166	6166	6166
5°	7641	6811	5549	4858	4789
10°	7520	5841	4285	3795	3865
15°	6240	4154	3085	3156	3370
20°	10832	3317	2364	2731	3097
25°	24133	3972	1900	2527	2907
30°	72168	4872	1670	2486	3043
35°	277776	5487	1514	2544	3217
40°	644763	4789	1439	2630	3440
45°	873283	3629	1267	2850	3726
50°	684724	2143	1286	3028	4099
55°	328666	961	1201	3243	4474
60°	30036	138	1102	3444	4994
65°	3260	0	978	3586	5420
70°	806	0	1209	3827	5891
75°	799	266	1597	4259	6654
80°	793	793	1984	4364	7141
85°	790	790	3162	3952	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 873283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.8
10°-20°	6.4	1.6
20°-30°	15.2	3.8
30°-40°	83.4	20.7
40°-50°	201.9	50.1
50°-60°	80.5	20.0
60°-70°	7.0	1.7
70°-80°	3.9	1.0
80°-90°	1.7	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°	24.6	6.1
0°-40°	108.0	26.8
0°-60°	390.4	96.9
0°-90°	403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	44	39	32	28	28	4
15°	35	23	17	18	19	12
25°	127	21	10	13	15	77
35°	1321	26	7	12	15	934
45°	3586	15	5	12	15	2529
55°	1095	3	4	11	15	1020
65°	8	0	2	9	13	21
75°	1	0	2	6	10	1
85°	0	0	2	2	4	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°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
2.5°	40.2	40.2	40.6	40.2	40.2	40.2	40.2	39.8	39.8	39.8	38.6
5°	44.2	44.2	44.2	44.2	43.8	43.8	43.8	43.4	43.4	43.0	39.4
7.5°	45.8	45.8	45.4	45.4	45.0	45.0	44.6	44.2	43.8	43.4	37.8
10°	43.0	43.0	43.0	42.6	42.6	42.2	41.8	41.4	41.0	40.2	33.4
12.5°	38.2	38.2	38.6	38.2	37.8	37.4	36.6	36.2	35.8	35.0	27.7
15°	35.0	35.0	35.0	34.6	34.2	33.4	32.9	32.1	31.7	30.5	23.3
17.5°	44.6	44.6	44.2	43.4	41.8	40.6	38.6	37.0	35.0	32.5	20.1
20°	59.1	59.1	58.3	57.5	55.5	53.4	50.2	47.4	44.2	41.4	18.1
22.5°	85.6	86.8	84.4	81.6	78.8	73.9	69.5	65.1	59.5	54.6	18.5
25°	127.0	128.2	127.0	120.5	115.3	108.9	100.5	91.6	82.0	73.1	20.9
27.5°	205.7	206.5	204.5	188.9	180.4	163.5	148.7	134.2	118.1	102.1	22.9
30°	362.9	363.3	350.4	319.1	291.3	254.4	223.0	192.9	167.6	141.8	24.5
31°	477.8	466.5	439.2	401.4	357.2	307.4	264.4	225.4	187.7	159.9	24.9
32°	606.8	605.2	559.7	494.2	435.2	372.9	308.2	258.4	215.0	177.2	25.3
33°	777.5	778.3	706.8	629.7	532.8	449.2	364.5	296.1	243.9	197.7	26.1
34°	1044.4	981.7	897.7	793.2	661.4	535.6	425.5	339.9	270.0	217.4	26.1
35°	1321.2	1258.1	1165.7	1007.4	826.6	650.6	498.3	387.0	301.4	238.7	26.1
36°	1631.4	1578.0	1438.1	1236.0	1005.4	759.1	575.4	441.2	332.3	258.0	25.7
37°	1966.6	1888.2	1733.1	1512.5	1203.9	911.7	669.4	495.1	363.3	278.9	24.9
38°	2306.9	2236.2	2040.5	1773.3	1441.0	1072.9	763.5	546.9	391.8	294.5	23.7
39°	2564.9	2526.3	2332.2	2033.7	1630.2	1225.6	860.3	602.3	421.9	310.2	22.5
40°	2867.9	2805.6	2621.5	2252.3	1854.0	1381.1	955.1	651.4	446.8	322.7	21.3
41°	3144.3	3065.6	2833.3	2476.5	2033.3	1520.9	1045.2	702.0	466.9	329.9	20.5
42°	3381.4	3289.8	3047.1	2668.5	2183.1	1632.6	1117.1	738.2	485.8	335.9	19.3
43°	3534.9	3455.7	3217.0	2812.8	2311.3	1735.1	1184.2	775.9	497.5	339.9	17.7
44°	3609.6	3529.7	3298.6	2903.2	2390.1	1796.6	1227.6	802.1	510.3	345.2	16.5
45°	3585.5	3504.3	3280.9	2904.8	2414.6	1818.7	1246.1	813.7	517.2	350.0	14.9
46°	3475.0	3418.0	3192.9	2829.3	2368.0	1795.0	1235.6	804.9	514.7	350.0	13.3
47°	3319.9	3254.8	3040.6	2699.5	2255.1	1733.9	1193.4	777.9	499.9	342.0	11.7
48°	3108.5	3053.1	2828.1	2493.3	2081.9	1600.9	1098.2	734.1	476.6	326.3	10.0
49°	2843.3	2766.2	2556.8	2229.7	1856.0	1412.0	973.2	660.2	439.2	304.2	8.8
50°	2555.6	2460.4	2298.9	1965.7	1622.6	1210.7	808.9	558.1	386.6	275.3	8.0
51°	2273.9	2177.1	2023.2	1739.9	1373.5	1004.6	652.6	445.6	318.2	235.5	6.8
52°	1981.8	1900.7	1728.3	1505.7	1175.8	814.1	543.7	376.9	264.4	197.7	5.6
53°	1690.9	1635.4	1471.5	1246.1	944.7	665.0	444.0	322.7	230.6	169.2	4.4
54°	1399.6	1338.9	1214.3	1013.4	761.5	524.8	376.5	270.0	200.1	147.5	4.0
55°	1094.6	1063.2	948.3	772.7	577.0	418.7	305.4	232.3	167.6	123.4	3.2
56°	843.0	807.7	702.8	560.6	428.8	327.9	247.1	189.7	141.8	103.3	2.4
57°	552.1	515.9	446.4	391.4	312.2	239.1	188.9	149.5	115.3	85.6	2.0
58°	326.3	293.3	282.5	241.1	208.1	162.3	139.4	111.3	85.2	67.5	1.2
59°	149.9	152.3	135.4	127.0	115.3	103.3	84.8	74.3	58.3	48.6	0.8
60°	87.2	82.4	80.4	71.9	63.9	56.7	51.0	45.0	36.6	31.3	0.4
62.5°	29.7	28.5	29.3	26.5	24.9	24.1	22.1	18.9	15.7	12.9	0.0
65°	8.0	8.0	7.6	7.2	6.8	6.4	6.0	5.2	4.8	4.0	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°	2.8	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.2	1.2	0.0
70°	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4
75°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	35.8	35.8	35.8	35.8	35.8	35.8
2.5°	37.0	35.4	33.4	32.1	31.7	31.3
5°	35.4	32.1	29.7	28.1	27.7	27.7
7.5°	31.7	28.1	25.7	24.9	24.5	24.5
10°	27.7	24.5	22.5	21.7	22.1	22.1
12.5°	23.3	20.5	19.7	19.7	20.1	20.5
15°	18.9	17.3	17.3	17.7	18.5	18.9
17.5°	15.7	14.9	15.3	16.1	16.9	17.7
20°	12.9	12.9	13.7	14.9	16.1	16.9
22.5°	10.8	11.3	12.5	13.7	15.3	16.1
25°	9.2	10.0	11.3	13.3	14.9	15.3
27.5°	8.0	9.2	10.8	12.9	14.5	15.3
30°	6.8	8.4	10.4	12.5	14.5	15.3
31°	6.4	8.0	10.0	12.5	14.5	15.3
32°	6.0	8.0	10.0	12.5	14.5	15.3
33°	5.6	7.6	10.0	12.1	14.5	15.3
34°	5.2	7.6	10.0	12.5	14.5	15.3
35°	4.8	7.2	9.6	12.1	14.1	15.3
36°	4.4	7.2	9.6	12.1	14.5	15.3
37°	4.0	7.2	9.6	12.1	14.1	15.3
38°	4.0	6.8	9.2	12.1	14.1	15.3
39°	3.6	6.4	9.2	12.1	14.1	15.3
40°	3.2	6.4	8.8	11.7	14.1	15.3
41°	2.8	6.0	8.8	11.7	14.1	15.3
42°	2.4	6.0	8.8	11.7	14.1	15.3
43°	2.0	5.6	8.4	11.7	14.1	15.3
44°	2.0	5.6	8.4	11.7	14.1	15.3
45°	1.6	5.2	8.0	11.7	14.1	15.3
46°	1.6	5.2	8.0	11.3	14.1	15.3
47°	1.2	5.2	8.0	11.3	14.1	15.3
48°	1.2	4.8	8.0	11.3	14.1	15.3
49°	0.8	4.8	8.0	11.3	14.1	15.3
50°	0.8	4.8	7.6	11.3	14.1	15.3
51°	0.8	4.8	7.6	11.3	14.1	15.3
52°	0.8	4.4	7.6	11.3	14.1	15.3
53°	0.8	4.4	7.6	11.3	14.1	15.3
54°	0.8	4.4	7.2	11.3	14.1	15.3
55°	0.8	4.0	7.2	10.8	14.1	14.9
56°	0.8	4.0	7.2	10.8	14.1	14.9
57°	0.8	4.0	6.8	10.8	14.1	14.9
58°	0.8	3.6	6.8	10.4	13.7	14.9
59°	0.8	3.6	6.4	10.4	13.7	14.5
60°	0.8	3.2	6.4	10.0	13.3	14.5
62.5°	0.8	2.8	5.6	9.6	12.9	13.7
65°	0.8	2.4	5.2	8.8	12.5	13.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.4	4.8	8.4	11.7	12.9
70°	0.8	2.4	4.4	7.6	11.3	11.7
72.5°	1.2	2.4	4.0	7.2	10.4	10.8
75°	1.6	2.4	3.6	6.4	9.6	10.0
77.5°	1.6	2.4	3.2	5.6	8.4	8.8
80°	1.6	2.0	2.8	4.4	6.8	7.2
82.5°	1.6	2.0	2.0	3.6	5.2	5.6
85°	1.2	1.6	1.6	2.0	3.6	4.0
87.5°	1.2	1.6	0.8	1.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)