

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: P1324160

Luminaire Tested: LDSQA3D05R15W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324160
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

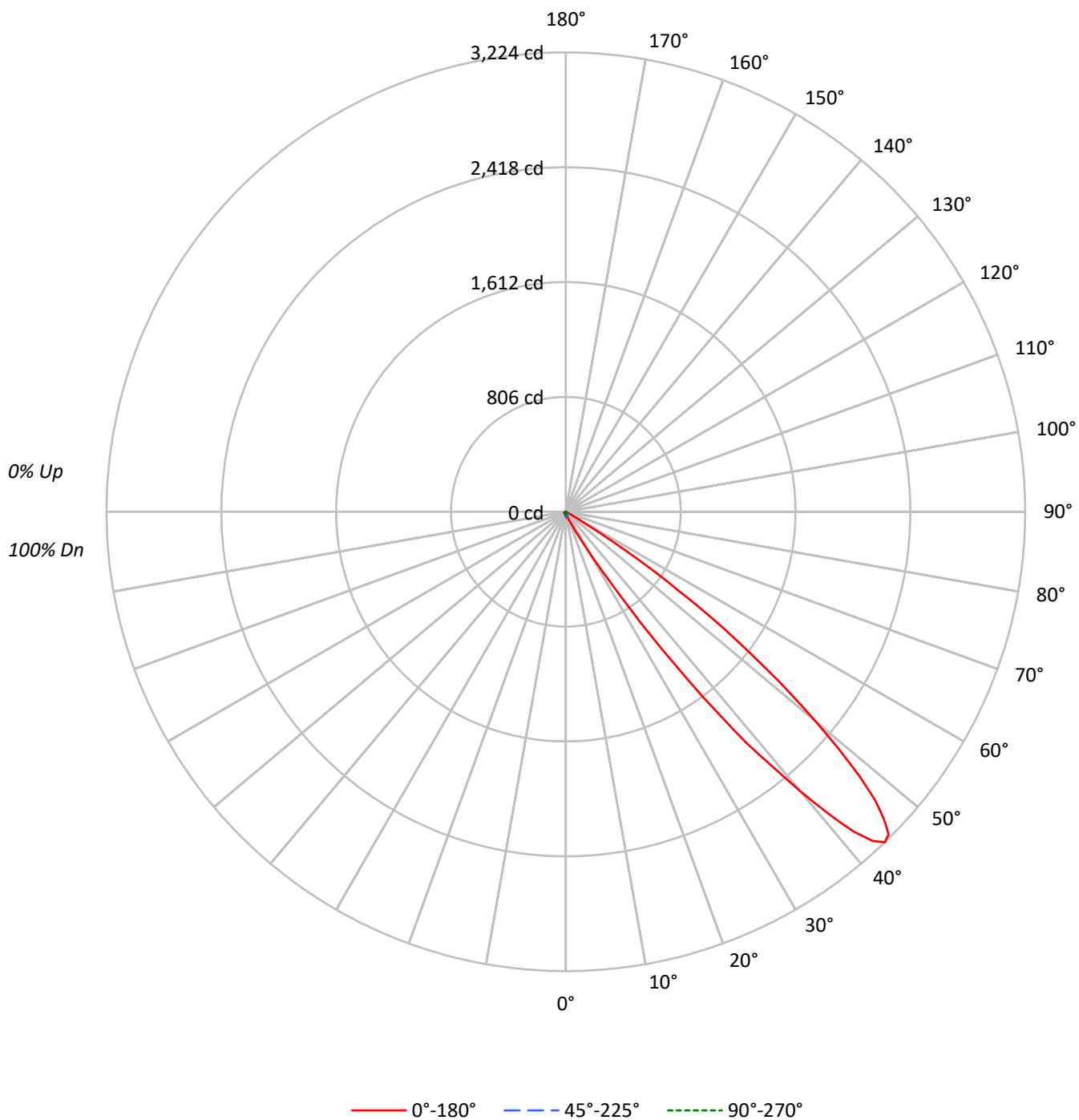
Lumens per Lamp: N/A
Luminaire Lumens: 360.0 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	5494	5494	5494	5494	5494
5°	6829	6085	4962	4339	4287
10°	6715	5211	3830	3393	3445
15°	5563	3709	2746	2817	3013
20°	9677	2969	2108	2438	2767
25°	21549	3553	1710	2242	2584
30°	64452	4355	1491	2207	2705
35°	248131	4899	1367	2271	2859
40°	575968	4272	1281	2338	3058
45°	780097	3239	1145	2533	3312
50°	611659	1929	1152	2706	3644
55°	293595	871	1081	2913	3993
60°	26832	138	999	3100	4443
65°	2934	0	897	3219	4809
70°	705	0	1108	3424	5237
75°	732	266	1464	3793	5989
80°	694	694	1785	3868	6447
85°	790	790	2766	3557	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 780097 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.8
10°-20°	5.7	1.6
20°-30°	13.6	3.8
30°-40°	74.5	20.7
40°-50°	180.3	50.1
50°-60°	71.9	20.0
60°-70°	6.2	1.7
70°-80°	3.5	1.0
80°-90°	1.5	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°	22.0	6.1
0°-40°	96.5	26.8
0°-60°	348.7	96.9
0°-90°	360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	360.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	40	35	29	25	25	4
15°	31	21	15	16	17	11
25°	113	19	9	12	14	68
35°	1180	23	6	11	14	834
45°	3203	13	5	10	14	2259
55°	978	3	4	10	13	911
65°	7	0	2	8	12	18
75°	1	0	2	6	9	1
85°	0	0	1	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°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	35.9	35.9	36.3	35.9	35.9	35.9	35.9	35.5	35.5	35.5	34.5
5°	39.5	39.5	39.5	39.5	39.1	39.1	39.1	38.8	38.8	38.4	35.2
7.5°	40.9	40.9	40.6	40.6	40.2	40.2	39.8	39.5	39.1	38.8	33.7
10°	38.4	38.4	38.4	38.0	38.0	37.7	37.3	37.0	36.6	35.9	29.8
12.5°	34.1	34.1	34.5	34.1	33.7	33.4	32.7	32.3	31.9	31.2	24.8
15°	31.2	31.2	31.2	30.9	30.5	29.8	29.4	28.7	28.4	27.3	20.8
17.5°	39.8	39.8	39.5	38.8	37.3	36.3	34.5	33.0	31.2	29.1	17.9
20°	52.8	52.8	52.0	51.3	49.5	47.7	44.9	42.4	39.5	37.0	16.2
22.5°	76.5	77.5	75.4	72.9	70.4	66.0	62.1	58.2	53.1	48.8	16.5
25°	113.4	114.5	113.4	107.7	103.0	97.3	89.7	81.8	73.2	65.3	18.7
27.5°	183.8	184.5	182.7	168.7	161.2	146.1	132.8	119.9	105.5	91.2	20.5
30°	324.1	324.5	313.0	285.0	260.2	227.2	199.2	172.3	149.7	126.7	21.9
31°	426.8	416.7	392.3	358.6	319.1	274.6	236.2	201.4	167.6	142.9	22.3
32°	542.0	540.6	500.0	441.5	388.7	333.1	275.3	230.8	192.0	158.3	22.6
33°	694.6	695.3	631.4	562.5	476.0	401.3	325.6	264.5	217.9	176.6	23.3
34°	932.9	876.9	801.9	708.6	590.8	478.5	380.1	303.7	241.2	194.2	23.3
35°	1180.2	1123.9	1041.3	899.9	738.4	581.1	445.1	345.7	269.2	213.2	23.3
36°	1457.4	1409.6	1284.7	1104.1	898.1	678.1	514.0	394.1	296.9	230.4	23.0
37°	1756.7	1686.7	1548.2	1351.1	1075.4	814.5	598.0	442.2	324.5	249.1	22.3
38°	2060.8	1997.6	1822.8	1584.1	1287.2	958.4	682.0	488.5	350.0	263.1	21.2
39°	2291.2	2256.7	2083.4	1816.7	1456.3	1094.8	768.5	538.1	376.9	277.1	20.1
40°	2561.9	2506.2	2341.8	2011.9	1656.2	1233.7	853.2	581.9	399.2	288.2	19.0
41°	2808.8	2738.5	2531.0	2212.2	1816.3	1358.6	933.6	627.1	417.1	294.7	18.3
42°	3020.6	2938.8	2721.9	2383.8	1950.2	1458.4	997.9	659.4	434.0	300.1	17.2
43°	3157.7	3087.0	2873.8	2512.7	2064.7	1550.0	1057.8	693.1	444.4	303.7	15.8
44°	3224.5	3153.1	2946.7	2593.4	2135.1	1604.9	1096.6	716.5	455.9	308.3	14.7
45°	3202.9	3130.4	2930.9	2594.9	2157.0	1624.6	1113.1	726.9	462.0	312.6	13.3
46°	3104.2	3053.3	2852.2	2527.4	2115.3	1603.4	1103.8	719.0	459.8	312.6	11.8
47°	2965.7	2907.5	2716.2	2411.5	2014.4	1548.9	1066.1	694.9	446.5	305.5	10.4
48°	2776.9	2727.3	2526.3	2227.3	1859.7	1430.1	981.0	655.8	425.7	291.5	9.0
49°	2540.0	2471.0	2284.0	1991.8	1658.0	1261.4	869.4	589.8	392.3	271.7	7.9
50°	2282.9	2197.9	2053.6	1756.0	1449.5	1081.5	722.6	498.6	345.3	245.9	7.2
51°	2031.3	1944.8	1807.3	1554.3	1226.9	897.4	582.9	398.1	284.3	210.3	6.1
52°	1770.4	1697.9	1543.9	1345.0	1050.3	727.2	485.7	336.7	236.2	176.6	5.0
53°	1510.5	1460.9	1314.5	1113.1	843.9	594.1	396.6	288.2	206.0	151.1	3.9
54°	1250.2	1196.0	1084.8	905.3	680.2	468.8	336.3	241.2	178.8	131.7	3.6
55°	977.8	949.8	847.1	690.3	515.5	374.0	272.8	207.5	149.7	110.2	2.9
56°	753.1	721.5	627.8	500.7	383.0	292.9	220.8	169.4	126.7	92.3	2.2
57°	493.2	460.9	398.8	349.6	278.9	213.6	168.7	133.5	103.0	76.5	1.8
58°	291.5	262.0	252.3	215.4	185.9	145.0	124.6	99.4	76.1	60.3	1.1
59°	133.9	136.0	121.0	113.4	103.0	92.3	75.7	66.4	52.0	43.4	0.7
60°	77.9	73.6	71.8	64.3	57.1	50.6	45.6	40.2	32.7	28.0	0.4
62.5°	26.6	25.5	26.2	23.7	22.3	21.5	19.7	16.9	14.0	11.5	0.0
65°	7.2	7.2	6.8	6.5	6.1	5.7	5.4	4.7	4.3	3.6	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°	2.5	2.5	2.2	2.2	1.8	1.8	1.4	1.4	1.1	1.1	0.0
70°	1.4	1.4	1.4	1.1	1.1	1.1	0.7	0.7	0.7	0.4	0.0
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.4	0.4
75°	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
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°	31.9	31.9	31.9	31.9	31.9	31.9
2.5°	33.0	31.6	29.8	28.7	28.4	28.0
5°	31.6	28.7	26.6	25.1	24.8	24.8
7.5°	28.4	25.1	23.0	22.3	21.9	21.9
10°	24.8	21.9	20.1	19.4	19.7	19.7
12.5°	20.8	18.3	17.6	17.6	17.9	18.3
15°	16.9	15.4	15.4	15.8	16.5	16.9
17.5°	14.0	13.3	13.6	14.4	15.1	15.8
20°	11.5	11.5	12.2	13.3	14.4	15.1
22.5°	9.7	10.1	11.1	12.2	13.6	14.4
25°	8.3	9.0	10.1	11.8	13.3	13.6
27.5°	7.2	8.3	9.7	11.5	12.9	13.6
30°	6.1	7.5	9.3	11.1	12.9	13.6
31°	5.7	7.2	9.0	11.1	12.9	13.6
32°	5.4	7.2	9.0	11.1	12.9	13.6
33°	5.0	6.8	9.0	10.8	12.9	13.6
34°	4.7	6.8	9.0	11.1	12.9	13.6
35°	4.3	6.5	8.6	10.8	12.6	13.6
36°	3.9	6.5	8.6	10.8	12.9	13.6
37°	3.6	6.5	8.6	10.8	12.6	13.6
38°	3.6	6.1	8.3	10.8	12.6	13.6
39°	3.2	5.7	8.3	10.8	12.6	13.6
40°	2.9	5.7	7.9	10.4	12.6	13.6
41°	2.5	5.4	7.9	10.4	12.6	13.6
42°	2.2	5.4	7.9	10.4	12.6	13.6
43°	1.8	5.0	7.5	10.4	12.6	13.6
44°	1.8	5.0	7.5	10.4	12.6	13.6
45°	1.4	4.7	7.2	10.4	12.6	13.6
46°	1.4	4.7	7.2	10.1	12.6	13.6
47°	1.1	4.7	7.2	10.1	12.6	13.6
48°	1.1	4.3	7.2	10.1	12.6	13.6
49°	0.7	4.3	7.2	10.1	12.6	13.6
50°	0.7	4.3	6.8	10.1	12.6	13.6
51°	0.7	4.3	6.8	10.1	12.6	13.6
52°	0.7	3.9	6.8	10.1	12.6	13.6
53°	0.7	3.9	6.8	10.1	12.6	13.6
54°	0.7	3.9	6.5	10.1	12.6	13.6
55°	0.7	3.6	6.5	9.7	12.6	13.3
56°	0.7	3.6	6.5	9.7	12.6	13.3
57°	0.7	3.6	6.1	9.7	12.6	13.3
58°	0.7	3.2	6.1	9.3	12.2	13.3
59°	0.7	3.2	5.7	9.3	12.2	12.9
60°	0.7	2.9	5.7	9.0	11.8	12.9
62.5°	0.7	2.5	5.0	8.6	11.5	12.2
65°	0.7	2.2	4.7	7.9	11.1	11.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	2.2	4.3	7.5	10.4	11.5
70°	0.7	2.2	3.9	6.8	10.1	10.4
72.5°	1.1	2.2	3.6	6.5	9.3	9.7
75°	1.4	2.2	3.2	5.7	8.6	9.0
77.5°	1.4	2.2	2.9	5.0	7.5	7.9
80°	1.4	1.8	2.5	3.9	6.1	6.5
82.5°	1.4	1.8	1.8	3.2	4.7	5.0
85°	1.1	1.4	1.4	1.8	3.2	3.6
87.5°	1.1	1.4	0.7	1.1	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)