

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: P1324161

Luminaire Tested: LDSQA3D05R15W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324161
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_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

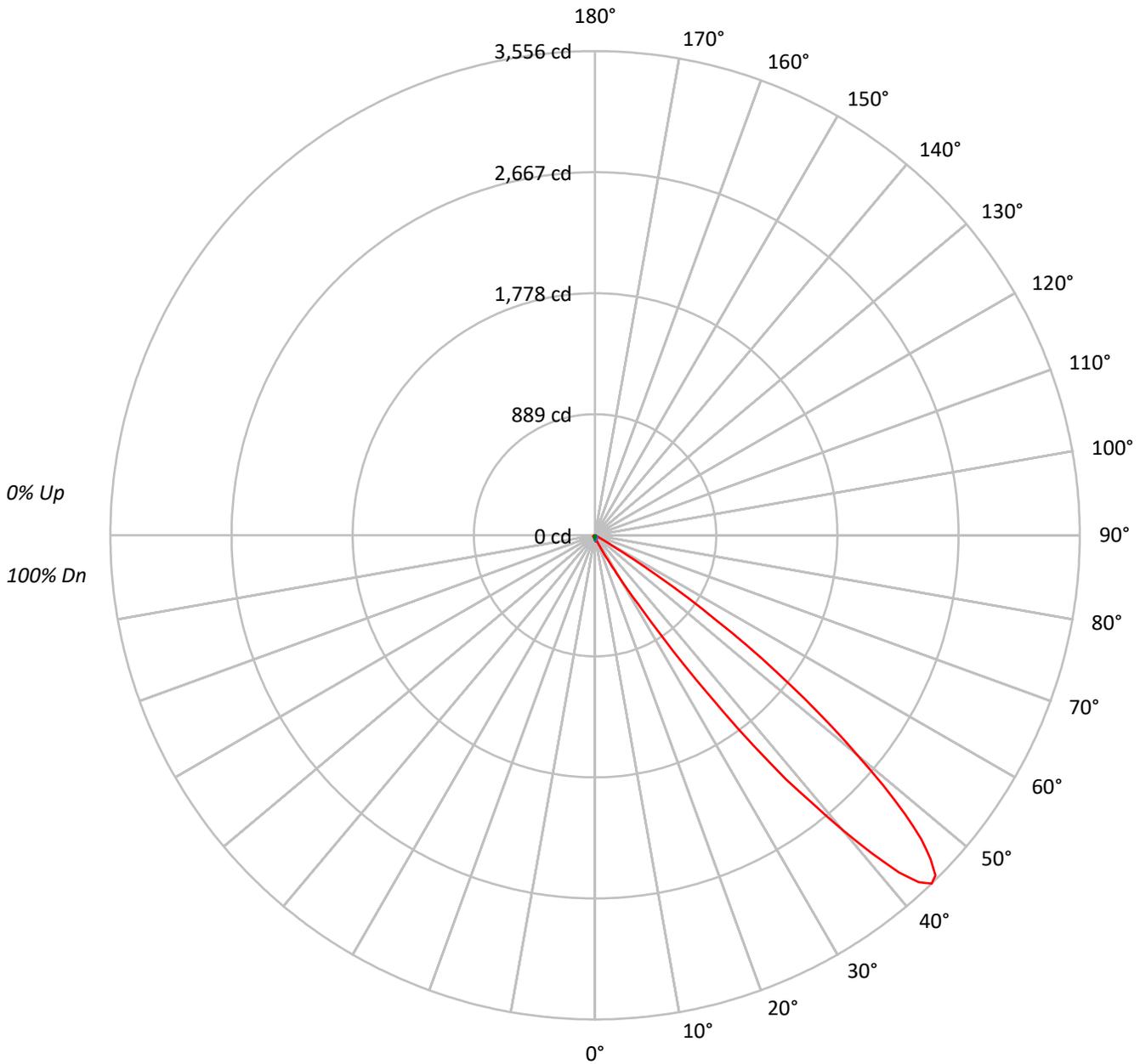
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 397.0 lumens
Efficiency: N/A
Efficacy: 67.3 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



— 0°-180° - - - 45°-225° ····· 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6062	6062	6062	6062	6062
5°	7520	6708	5480	4789	4720
10°	7415	5754	4215	3742	3812
15°	6133	4101	3031	3102	3316
20°	10667	3262	2328	2676	3042
25°	23772	3915	1881	2489	2850
30°	71075	4793	1651	2446	2983
35°	273634	5403	1493	2502	3154
40°	635163	4721	1416	2585	3372
45°	860277	3556	1242	2801	3653
50°	674543	2117	1286	2974	4019
55°	323771	961	1201	3213	4384
60°	29588	138	1102	3410	4926
65°	3219	0	978	3545	5338
70°	806	0	1209	3777	5791
75°	799	266	1597	4192	6588
80°	793	793	1984	4364	7042
85°	790	790	3162	3952	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 860277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.8
10°-20°	6.3	1.6
20°-30°	15.0	3.8
30°-40°	82.1	20.7
40°-50°	198.9	50.1
50°-60°	79.3	20.0
60°-70°	6.9	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°	24.3	6.1
0°-40°	106.4	26.8
0°-60°	384.6	96.9
0°-90°	397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	44	39	32	28	27	4
15°	34	23	17	17	19	12
25°	125	21	10	13	15	75
35°	1302	26	7	12	15	920
45°	3532	15	5	12	15	2492
55°	1078	3	4	11	15	1005
65°	8	0	2	9	13	20
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°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
2.5°	39.6	39.6	40.0	39.6	39.6	39.6	39.6	39.2	39.2	39.2	38.0
5°	43.5	43.5	43.5	43.5	43.1	43.1	43.1	42.8	42.8	42.4	38.8
7.5°	45.1	45.1	44.7	44.7	44.3	44.3	43.9	43.5	43.1	42.8	37.2
10°	42.4	42.4	42.4	42.0	42.0	41.6	41.2	40.8	40.4	39.6	32.9
12.5°	37.6	37.6	38.0	37.6	37.2	36.8	36.0	35.6	35.2	34.4	27.3
15°	34.4	34.4	34.4	34.0	33.6	32.9	32.5	31.7	31.3	30.1	23.0
17.5°	43.9	43.9	43.5	42.8	41.2	40.0	38.0	36.4	34.4	32.1	19.8
20°	58.2	58.2	57.4	56.6	54.6	52.6	49.5	46.7	43.5	40.8	17.8
22.5°	84.3	85.5	83.1	80.4	77.6	72.8	68.5	64.1	58.6	53.8	18.2
25°	125.1	126.3	125.1	118.8	113.6	107.3	99.0	90.3	80.8	72.0	20.6
27.5°	202.7	203.5	201.5	186.0	177.7	161.1	146.5	132.2	116.4	100.5	22.6
30°	357.4	357.8	345.2	314.3	287.0	250.6	219.7	190.0	165.1	139.7	24.1
31°	470.7	459.6	432.7	395.5	351.9	302.8	260.5	222.1	184.9	157.5	24.5
32°	597.7	596.1	551.4	486.9	428.7	367.3	303.6	254.5	211.8	174.6	24.9
33°	766.0	766.8	696.3	620.3	524.9	442.6	359.0	291.7	240.3	194.8	25.7
34°	1028.8	967.1	884.3	781.4	651.6	527.7	419.2	334.9	266.0	214.2	25.7
35°	1301.5	1239.4	1148.4	992.4	814.3	640.9	490.8	381.2	296.9	235.1	25.7
36°	1607.1	1554.5	1416.7	1217.6	990.4	747.8	566.9	434.6	327.4	254.1	25.3
37°	1937.3	1860.1	1707.3	1490.0	1186.0	898.2	659.5	487.7	357.8	274.7	24.5
38°	2272.6	2202.9	2010.1	1746.9	1419.5	1056.9	752.1	538.7	386.0	290.2	23.4
39°	2526.7	2488.7	2297.5	2003.4	1605.9	1207.3	847.5	593.4	415.6	305.6	22.2
40°	2825.2	2763.8	2582.5	2218.7	1826.4	1360.5	940.9	641.7	440.2	317.9	21.0
41°	3097.5	3019.9	2791.1	2439.6	2003.0	1498.3	1029.6	691.5	460.0	325.0	20.2
42°	3331.0	3240.8	3001.7	2628.8	2150.6	1608.3	1100.5	727.2	478.6	330.9	19.0
43°	3482.3	3404.3	3169.1	2770.9	2276.9	1709.3	1166.6	764.4	490.1	334.9	17.4
44°	3555.9	3477.1	3249.5	2860.0	2354.5	1769.8	1209.3	790.1	502.7	340.0	16.2
45°	3532.1	3452.2	3232.1	2861.6	2378.6	1791.6	1227.5	801.6	509.5	344.8	14.6
46°	3423.3	3367.1	3145.4	2787.2	2332.7	1768.2	1217.2	792.9	507.1	344.8	13.1
47°	3270.5	3206.4	2995.4	2659.3	2221.5	1708.1	1175.7	766.4	492.4	336.9	11.5
48°	3062.3	3007.6	2786.0	2456.2	2050.9	1577.1	1081.8	723.2	469.5	321.4	9.9
49°	2801.0	2725.0	2518.8	2196.6	1828.4	1391.0	958.7	650.4	432.7	299.7	8.7
50°	2517.6	2423.8	2264.6	1936.5	1598.4	1192.7	796.8	549.8	380.8	271.2	7.9
51°	2240.1	2144.7	1993.1	1714.0	1353.0	989.6	642.9	439.0	313.5	232.0	6.7
52°	1952.3	1872.4	1702.5	1483.2	1158.2	802.0	535.6	371.3	260.5	194.8	5.5
53°	1665.7	1611.1	1449.6	1227.5	930.6	655.1	437.4	317.9	227.2	166.7	4.4
54°	1378.7	1319.0	1196.2	998.3	750.1	517.0	370.9	266.0	197.1	145.3	4.0
55°	1078.3	1047.4	934.2	761.2	568.4	412.5	300.8	228.8	165.1	121.5	3.2
56°	830.5	795.7	692.3	552.2	422.4	323.0	243.4	186.8	139.7	101.7	2.4
57°	543.9	508.3	439.8	385.6	307.6	235.5	186.0	147.3	113.6	84.3	2.0
58°	321.4	289.0	278.3	237.5	205.0	159.9	137.4	109.6	83.9	66.5	1.2
59°	147.7	150.0	133.4	125.1	113.6	101.7	83.5	73.2	57.4	47.9	0.8
60°	85.9	81.1	79.2	70.9	62.9	55.8	50.3	44.3	36.0	30.9	0.4
62.5°	29.3	28.1	28.9	26.1	24.5	23.8	21.8	18.6	15.4	12.7	0.0
65°	7.9	7.9	7.5	7.1	6.7	6.3	5.9	5.1	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°	35.2	35.2	35.2	35.2	35.2	35.2
2.5°	36.4	34.8	32.9	31.7	31.3	30.9
5°	34.8	31.7	29.3	27.7	27.3	27.3
7.5°	31.3	27.7	25.3	24.5	24.1	24.1
10°	27.3	24.1	22.2	21.4	21.8	21.8
12.5°	23.0	20.2	19.4	19.4	19.8	20.2
15°	18.6	17.0	17.0	17.4	18.2	18.6
17.5°	15.4	14.6	15.0	15.8	16.6	17.4
20°	12.7	12.7	13.5	14.6	15.8	16.6
22.5°	10.7	11.1	12.3	13.5	15.0	15.8
25°	9.1	9.9	11.1	13.1	14.6	15.0
27.5°	7.9	9.1	10.7	12.7	14.3	15.0
30°	6.7	8.3	10.3	12.3	14.3	15.0
31°	6.3	7.9	9.9	12.3	14.3	15.0
32°	5.9	7.9	9.9	12.3	14.3	15.0
33°	5.5	7.5	9.9	11.9	14.3	15.0
34°	5.1	7.5	9.9	12.3	14.3	15.0
35°	4.8	7.1	9.5	11.9	13.9	15.0
36°	4.4	7.1	9.5	11.9	14.3	15.0
37°	4.0	7.1	9.5	11.9	13.9	15.0
38°	4.0	6.7	9.1	11.9	13.9	15.0
39°	3.6	6.3	9.1	11.9	13.9	15.0
40°	3.2	6.3	8.7	11.5	13.9	15.0
41°	2.8	5.9	8.7	11.5	13.9	15.0
42°	2.4	5.9	8.7	11.5	13.9	15.0
43°	2.0	5.5	8.3	11.5	13.9	15.0
44°	2.0	5.5	8.3	11.5	13.9	15.0
45°	1.6	5.1	7.9	11.5	13.9	15.0
46°	1.6	5.1	7.9	11.1	13.9	15.0
47°	1.2	5.1	7.9	11.1	13.9	15.0
48°	1.2	4.8	7.9	11.1	13.9	15.0
49°	0.8	4.8	7.9	11.1	13.9	15.0
50°	0.8	4.8	7.5	11.1	13.9	15.0
51°	0.8	4.8	7.5	11.1	13.9	15.0
52°	0.8	4.4	7.5	11.1	13.9	15.0
53°	0.8	4.4	7.5	11.1	13.9	15.0
54°	0.8	4.4	7.1	11.1	13.9	15.0
55°	0.8	4.0	7.1	10.7	13.9	14.6
56°	0.8	4.0	7.1	10.7	13.9	14.6
57°	0.8	4.0	6.7	10.7	13.9	14.6
58°	0.8	3.6	6.7	10.3	13.5	14.6
59°	0.8	3.6	6.3	10.3	13.5	14.3
60°	0.8	3.2	6.3	9.9	13.1	14.3
62.5°	0.8	2.8	5.5	9.5	12.7	13.5
65°	0.8	2.4	5.1	8.7	12.3	13.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.4	4.8	8.3	11.5	12.7
70°	0.8	2.4	4.4	7.5	11.1	11.5
72.5°	1.2	2.4	4.0	7.1	10.3	10.7
75°	1.6	2.4	3.6	6.3	9.5	9.9
77.5°	1.6	2.4	3.2	5.5	8.3	8.7
80°	1.6	2.0	2.8	4.4	6.7	7.1
82.5°	1.6	2.0	2.0	3.6	5.1	5.5
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)