

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: P1324342

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA45R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R20W2N902750DE010 3LSQCA45R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

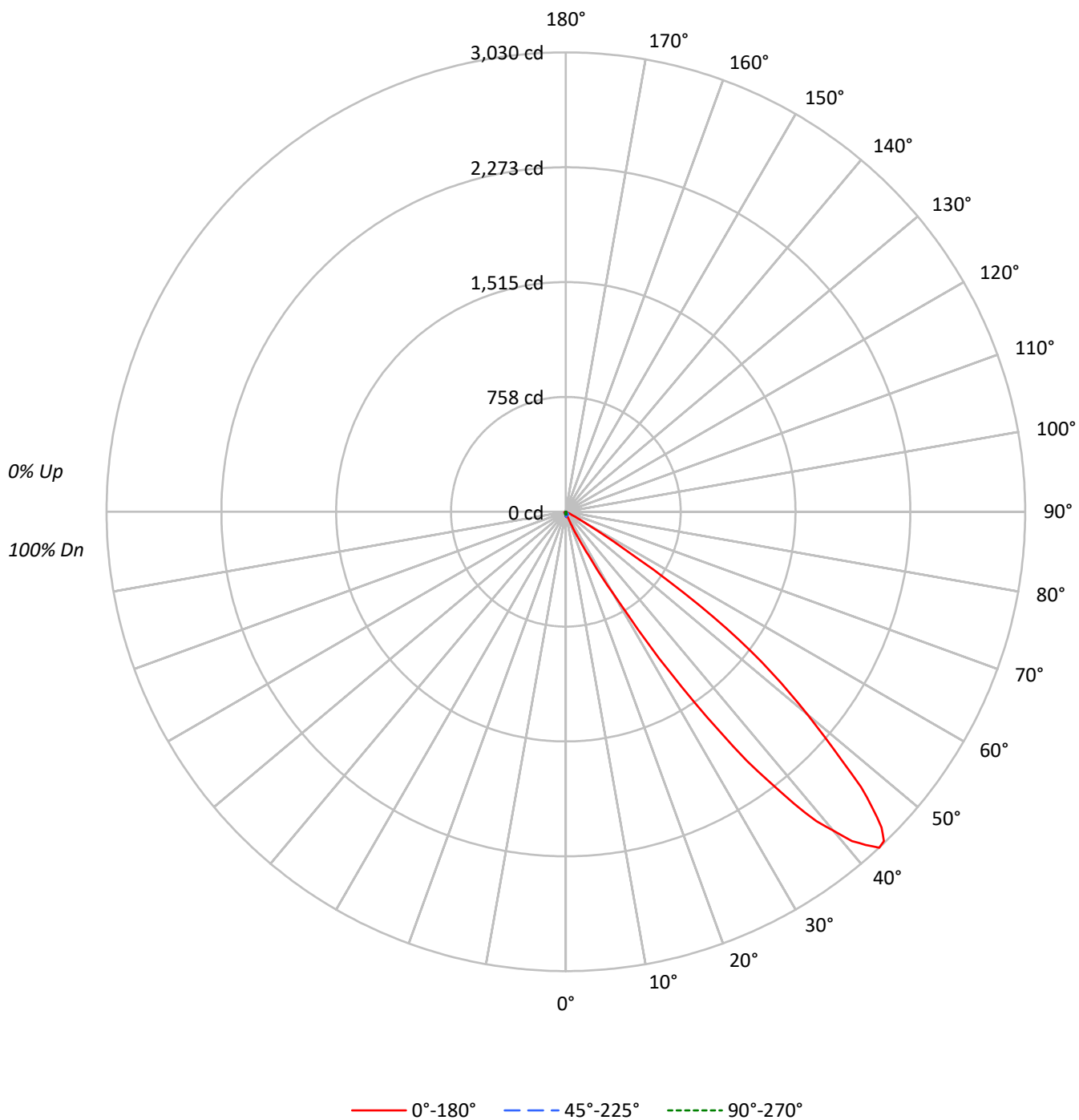
Lumens per Lamp: N/A
Luminaire Lumens: 421.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29		
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5046	5046	5046	5046	5046
5°	5878	5480	4720	4097	3959
10°	5806	4984	3742	3183	3113
15°	5081	3816	2746	2532	2674
20°	7533	3189	2034	2181	2401
25°	32476	3306	1577	1957	2337
30°	122819	4017	1332	1889	2287
35°	372323	4815	1240	1913	2418
40°	617380	4811	1057	2046	2585
45°	717600	3288	974	2119	2801
50°	557055	1795	965	2224	3188
55°	322420	1201	961	2492	3453
60°	54526	276	827	2583	3823
65°	4197	0	978	2893	4360
70°	604	0	1209	3172	4985
75°	532	266	1331	3660	5789
80°	397	397	1984	3967	6645
85°	790	790	3162	3952	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 717600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.6
10°-20°	5.3	1.3
20°-30°	16.8	4.0
30°-40°	107.4	25.5
40°-50°	196.5	46.7
50°-60°	80.7	19.2
60°-70°	6.8	1.6
70°-80°	3.4	0.8
80°-90°	1.6	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	5.8
0°-40°	132.0	31.3
0°-60°	409.2	97.2
0°-90°	421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	34	32	27	24	23	3
15°	28	21	15	14	15	9
25°	171	17	8	10	12	112
35°	1771	23	6	9	12	1121
45°	2946	14	4	9	12	2115
55°	1074	4	3	8	12	939
65°	10	0	2	7	11	34
75°	1	0	2	6	9	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°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	32.0	32.0	32.0	31.7	31.7	32.0	31.7	31.7	31.7	31.7	31.3
5°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	33.6	33.6	33.2	31.7
7.5°	34.8	34.8	34.8	34.8	34.4	34.4	34.4	34.4	34.0	33.6	30.9
10°	33.2	33.2	33.2	32.8	32.8	32.8	32.4	32.4	32.0	31.7	28.5
12.5°	30.1	30.1	30.1	30.1	29.7	29.7	29.3	29.3	28.9	28.5	24.9
15°	28.5	28.5	28.5	28.1	28.1	27.7	27.3	26.9	26.5	25.7	21.4
17.5°	30.9	30.9	30.5	30.5	29.7	28.9	28.5	27.3	26.5	25.3	19.0
20°	41.1	41.5	40.0	38.8	38.0	35.6	34.4	32.4	30.9	28.9	17.4
22.5°	83.1	81.5	78.7	74.4	69.2	64.9	57.0	50.6	46.3	40.4	17.0
25°	170.9	169.3	161.8	155.5	139.7	127.4	110.4	96.5	82.3	68.4	17.4
27.5°	324.8	314.1	312.2	283.3	261.1	229.5	196.6	168.9	143.6	115.5	18.6
30°	617.6	605.3	562.2	518.7	458.9	391.3	326.8	266.7	216.4	170.9	20.2
31°	783.8	795.6	745.0	657.6	569.3	482.7	394.5	318.1	253.2	196.6	21.0
32°	1030.2	978.4	925.0	835.2	707.0	596.2	485.5	375.5	290.0	224.3	21.8
33°	1263.3	1232.8	1151.3	1039.3	885.4	730.0	586.3	443.1	335.1	258.0	22.2
34°	1511.7	1478.1	1412.0	1251.4	1082.5	878.7	687.2	521.1	388.9	290.8	22.6
35°	1770.9	1756.6	1629.3	1490.0	1282.3	1036.6	808.7	606.5	441.5	320.9	22.9
36°	2031.6	1985.7	1886.0	1682.7	1465.9	1182.6	936.1	686.0	494.9	356.5	22.9
37°	2227.9	2217.6	2085.4	1887.2	1632.4	1338.5	1046.1	774.3	548.8	386.9	22.9
38°	2444.3	2403.5	2269.4	2067.6	1789.1	1481.3	1161.2	851.0	599.8	414.6	22.6
39°	2626.7	2566.1	2430.8	2231.4	1926.0	1589.7	1252.6	925.4	644.9	437.6	22.2
40°	2746.1	2704.2	2563.0	2338.6	2050.2	1692.2	1345.2	986.7	678.5	455.0	21.4
41°	2877.9	2808.3	2668.6	2443.1	2140.4	1782.4	1403.3	1027.1	704.6	466.5	20.6
42°	2956.6	2899.7	2733.9	2513.1	2204.9	1833.8	1450.8	1057.9	720.5	472.4	19.0
43°	3030.2	2952.7	2791.2	2553.9	2247.6	1870.2	1472.6	1072.2	724.0	472.4	17.0
44°	3020.3	2946.7	2779.4	2559.4	2257.1	1880.9	1481.7	1072.6	718.5	466.5	15.0
45°	2946.3	2873.1	2722.4	2511.1	2223.1	1859.9	1463.5	1056.8	703.1	456.2	13.5
46°	2810.6	2737.8	2622.3	2430.4	2159.8	1812.4	1421.1	1022.3	677.3	439.6	11.9
47°	2663.1	2592.2	2473.9	2300.3	2051.8	1727.8	1359.8	974.1	641.3	415.4	10.7
48°	2449.0	2404.7	2286.0	2137.6	1901.8	1595.2	1252.2	895.3	593.1	384.2	9.1
49°	2259.9	2213.2	2109.2	1949.7	1706.4	1440.9	1123.6	799.6	530.2	349.4	7.9
50°	2079.1	2038.3	1942.2	1762.2	1529.9	1254.6	949.9	678.9	451.0	306.2	6.7
51°	1902.2	1871.8	1773.7	1608.3	1372.5	1111.4	822.9	565.4	372.7	254.0	6.3
52°	1724.6	1721.0	1614.6	1447.3	1219.4	968.5	699.5	477.1	316.1	213.3	5.9
53°	1533.5	1510.6	1417.6	1267.2	1048.4	819.8	593.1	402.4	272.2	181.6	5.1
54°	1315.9	1290.2	1190.5	1054.8	856.6	671.4	477.9	325.2	226.7	153.5	4.7
55°	1073.8	1029.9	957.5	818.2	669.0	512.4	369.1	257.6	181.2	127.8	4.0
56°	814.6	770.7	730.0	627.5	491.0	382.2	275.0	197.4	141.6	100.9	3.6
57°	566.6	564.2	497.3	418.6	328.4	260.3	188.3	139.3	100.1	78.3	2.8
58°	367.6	355.3	312.6	267.1	214.8	162.6	121.1	94.6	68.1	53.4	2.4
59°	257.6	233.0	210.1	178.0	135.3	102.5	77.9	60.5	47.1	37.2	1.6
60°	158.3	153.1	137.7	108.4	87.8	72.4	58.2	44.7	34.4	26.5	0.8
62.5°	45.1	45.9	41.5	36.8	31.7	27.3	24.5	21.0	17.4	13.8	0.0
65°	10.3	9.9	10.7	9.9	9.1	9.1	7.9	7.1	6.3	5.9	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°	3.2	3.2	2.8	2.8	2.8	2.4	2.4	2.0	2.0	1.6	0.0
70°	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4	0.0
72.5°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.8	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.0	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°	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	30.5	28.9	27.7	26.5	26.1	26.1
5°	29.7	27.3	24.9	23.7	22.9	22.9
7.5°	27.3	24.5	22.2	21.0	20.6	20.6
10°	24.5	21.4	19.0	18.2	18.2	17.8
12.5°	21.4	18.2	16.6	16.2	16.2	16.2
15°	17.8	15.4	14.2	14.2	14.6	15.0
17.5°	15.0	12.7	12.3	13.1	13.8	13.8
20°	12.7	11.1	11.1	11.9	12.7	13.1
22.5°	10.7	9.5	9.9	11.1	12.3	12.7
25°	9.5	8.3	9.1	10.3	11.5	12.3
27.5°	7.9	7.5	8.3	9.9	11.5	11.9
30°	6.7	6.7	7.9	9.5	11.1	11.5
31°	6.3	6.3	7.9	9.5	11.1	11.5
32°	5.9	6.3	7.5	9.5	11.1	11.5
33°	5.5	5.9	7.5	9.1	11.1	11.5
34°	5.1	5.9	7.5	9.1	11.1	11.5
35°	4.7	5.9	7.5	9.1	11.1	11.5
36°	4.4	5.5	7.1	9.1	11.1	11.5
37°	4.0	5.5	7.1	9.1	11.1	11.5
38°	3.6	5.1	7.1	9.1	11.1	11.5
39°	3.6	5.1	6.7	9.1	10.7	11.5
40°	3.2	4.7	6.7	9.1	10.7	11.5
41°	2.8	4.7	6.7	8.7	10.7	11.5
42°	2.4	4.4	6.3	8.7	10.7	11.5
43°	2.0	4.4	6.3	8.7	10.7	11.5
44°	2.0	4.0	6.3	8.7	10.7	11.5
45°	1.6	4.0	6.3	8.7	10.7	11.5
46°	1.2	4.0	6.3	8.7	10.7	11.5
47°	1.2	3.6	5.9	8.7	10.7	11.5
48°	0.8	3.6	5.9	8.7	10.7	11.5
49°	0.8	3.6	5.9	8.7	10.7	11.9
50°	0.8	3.6	5.9	8.3	10.7	11.9
51°	0.4	3.6	5.9	8.3	10.7	11.9
52°	0.4	3.6	5.5	8.3	11.1	11.9
53°	0.4	3.2	5.5	8.3	11.1	11.9
54°	0.4	3.2	5.5	8.3	11.1	11.5
55°	0.4	3.2	5.5	8.3	10.7	11.5
56°	0.4	2.8	5.5	8.3	10.7	11.5
57°	0.4	2.8	5.1	7.9	10.7	11.1
58°	0.4	2.8	5.1	7.9	10.7	11.1
59°	0.4	2.8	5.1	7.9	10.3	11.1
60°	0.8	2.4	4.7	7.5	10.3	11.1
62.5°	0.8	2.4	4.7	7.5	9.9	10.7
65°	0.8	2.4	4.4	7.1	9.9	10.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.0	4.0	6.7	9.5	10.3
70°	0.8	2.4	4.0	6.3	9.1	9.9
72.5°	1.2	2.0	3.6	5.9	8.7	9.5
75°	1.2	2.0	3.6	5.5	8.3	8.7
77.5°	1.6	2.0	3.2	4.7	7.5	7.9
80°	1.6	2.0	2.8	4.0	6.3	6.7
82.5°	1.6	2.0	2.0	3.2	4.7	5.1
85°	1.2	1.6	1.6	2.0	3.2	3.6
87.5°	1.2	1.6	1.2	0.8	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)