

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: P1324421

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQCA45R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324421
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: LDSQA3D05R20W2N902765DE010 3LSQCA45R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

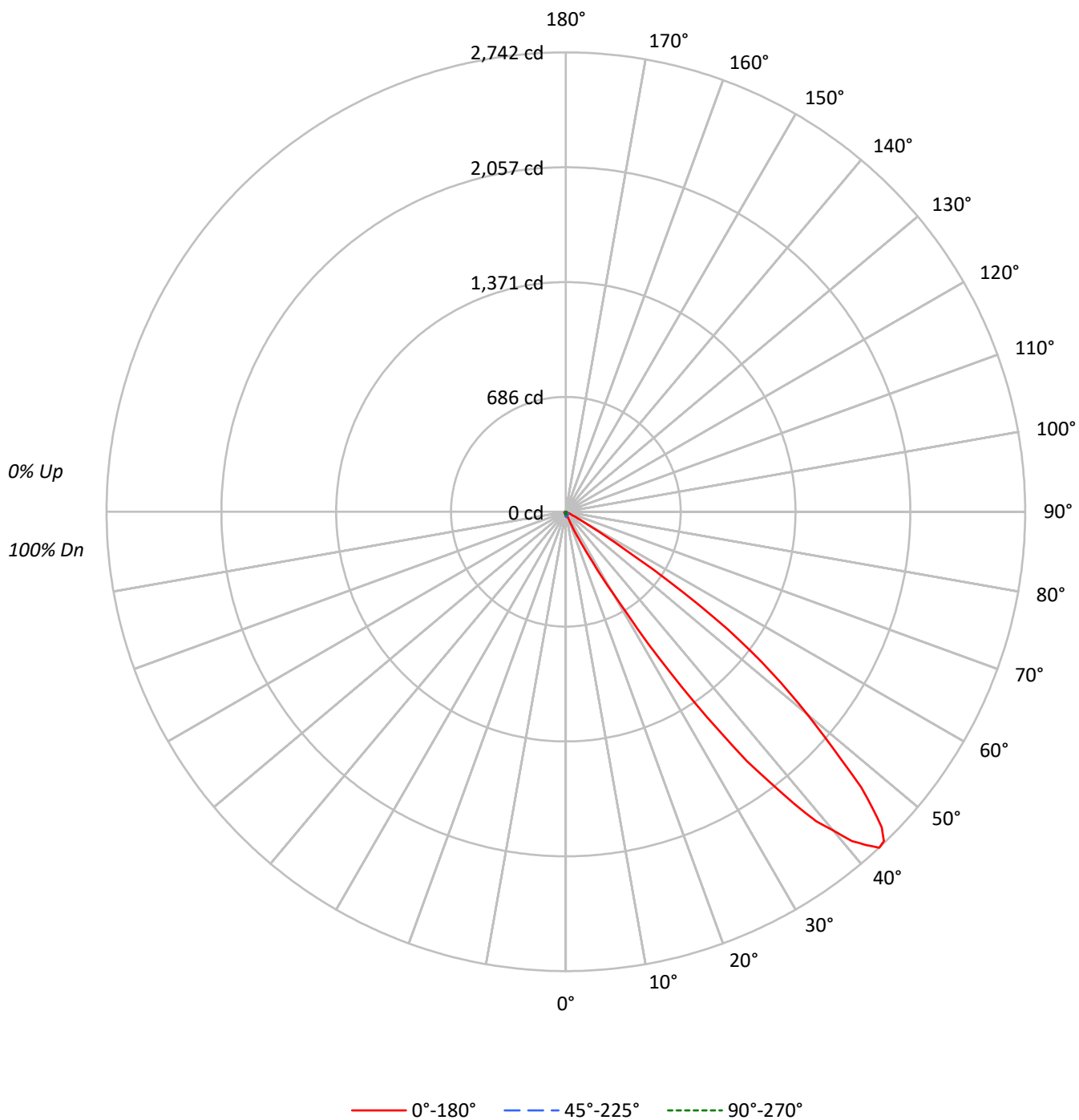
Lumens per Lamp: N/A
Luminaire Lumens: 381.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		108	104	101	97		100	97	94		96	94	92		92	91	89
2	101	93	87	82		98	91	86	81		88	83	79		85	81	77		82	78	75
3	92	81	74	67		89	80	73	67		77	71	66		74	69	65		72	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	75	62	53	46		73	61	53	46		59	51	46		57	50	45		55	49	45
6	68	55	45	39		66	54	45	38		52	44	38		50	43	38		48	42	37
7	62	48	39	32		60	47	38	32		46	38	32		44	37	32		43	36	31
8	57	42	33	27		55	42	33	27		40	33	27		39	32	27		38	31	27
9	52	38	29	23		51	37	29	23		36	28	23		35	28	23		34	27	23
10	48	34	25	20		47	33	25	20		32	25	19		31	24	19		30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4564	4564	4564	4564	4564
5°	5325	4944	4270	3717	3596
10°	5264	4512	3375	2886	2816
15°	4600	3441	2496	2300	2425
20°	6818	2896	1833	1961	2163
25°	29397	3002	1425	1767	2109
30°	111146	3639	1213	1710	2068
35°	336939	4373	1135	1724	2187
40°	558724	4339	967	1844	2338
45°	649427	2971	877	1924	2533
50°	504139	1634	857	2009	2867
55°	291764	1081	871	2252	3123
60°	49325	241	723	2342	3444
65°	3790	0	856	2608	3953
70°	554	0	1057	2870	4532
75°	466	266	1198	3327	5257
80°	397	397	1785	3570	6050
85°	790	790	2766	3557	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 649427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.6
10°-20°	4.8	1.3
20°-30°	15.2	4.0
30°-40°	97.2	25.5
40°-50°	177.8	46.7
50°-60°	73.1	19.2
60°-70°	6.2	1.6
70°-80°	3.1	0.8
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°	22.3	5.8
0°-40°	119.4	31.3
0°-60°	370.3	97.2
0°-90°	381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	381.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	31	29	25	22	21	3
15°	26	19	14	13	14	8
25°	155	16	8	9	11	102
35°	1603	21	5	8	10	1014
45°	2666	12	4	8	10	1914
55°	972	4	3	8	10	849
65°	9	0	2	6	10	30
75°	1	0	2	5	8	1
85°	0	0	1	2	3	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°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
2.5°	29.0	29.0	29.0	28.6	28.6	29.0	28.6	28.6	28.6	28.6	28.3
5°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.4	30.4	30.1	28.6
7.5°	31.5	31.5	31.5	31.5	31.2	31.2	31.2	31.2	30.8	30.4	27.9
10°	30.1	30.1	30.1	29.7	29.7	29.7	29.4	29.4	29.0	28.6	25.8
12.5°	27.2	27.2	27.2	27.2	26.9	26.9	26.5	26.5	26.1	25.8	22.6
15°	25.8	25.8	25.8	25.4	25.4	25.1	24.7	24.3	24.0	23.3	19.3
17.5°	27.9	27.9	27.6	27.6	26.9	26.1	25.8	24.7	24.0	22.9	17.2
20°	37.2	37.6	36.2	35.1	34.4	32.2	31.2	29.4	27.9	26.1	15.8
22.5°	75.2	73.8	71.3	67.3	62.7	58.7	51.6	45.8	41.9	36.5	15.4
25°	154.7	153.2	146.4	140.7	126.4	115.3	99.9	87.4	74.5	61.9	15.8
27.5°	294.0	284.3	282.5	256.4	236.3	207.7	178.0	152.9	130.0	104.6	16.8
30°	558.9	547.8	508.8	469.4	415.3	354.1	295.7	241.3	195.9	154.7	18.3
31°	709.3	720.0	674.2	595.1	515.2	436.8	357.0	287.9	229.2	178.0	19.0
32°	932.4	885.5	837.1	755.8	639.8	539.6	439.3	339.8	262.5	203.0	19.7
33°	1143.3	1115.7	1041.9	940.6	801.3	660.6	530.6	401.0	303.3	233.4	20.1
34°	1368.1	1337.7	1277.9	1132.5	979.6	795.2	621.9	471.6	352.0	263.2	20.4
35°	1602.6	1589.7	1474.5	1348.4	1160.4	938.1	731.9	548.9	399.6	290.4	20.8
36°	1838.6	1797.1	1706.8	1522.8	1326.6	1070.2	847.1	620.9	447.9	322.6	20.8
37°	2016.2	2006.9	1887.3	1707.9	1477.3	1211.3	946.7	700.7	496.6	350.2	20.8
38°	2212.0	2175.2	2053.8	1871.2	1619.1	1340.5	1050.9	770.2	542.8	375.2	20.4
39°	2377.1	2322.3	2199.9	2019.4	1743.0	1438.6	1133.6	837.5	583.6	396.0	20.1
40°	2485.2	2447.3	2319.5	2116.4	1855.4	1531.4	1217.4	893.0	614.1	411.8	19.3
41°	2604.5	2541.4	2415.1	2211.0	1937.1	1613.0	1270.0	929.5	637.7	422.1	18.6
42°	2675.7	2624.2	2474.1	2274.3	1995.4	1659.6	1313.0	957.4	652.0	427.5	17.2
43°	2742.3	2672.1	2526.0	2311.2	2034.1	1692.5	1332.7	970.3	655.2	427.5	15.4
44°	2733.4	2666.8	2515.3	2316.2	2042.7	1702.2	1340.9	970.7	650.2	422.1	13.6
45°	2666.4	2600.2	2463.7	2272.5	2011.9	1683.2	1324.4	956.4	636.3	412.8	12.2
46°	2543.6	2477.7	2373.2	2199.5	1954.6	1640.2	1286.1	925.2	613.0	397.8	10.7
47°	2410.0	2345.9	2238.9	2081.7	1856.9	1563.6	1230.6	881.5	580.4	376.0	9.7
48°	2216.3	2176.2	2068.8	1934.5	1721.1	1443.7	1133.2	810.3	536.7	347.7	8.2
49°	2045.2	2002.9	1908.8	1764.5	1544.3	1304.0	1016.9	723.6	479.8	316.2	7.2
50°	1881.6	1844.7	1757.7	1594.8	1384.6	1135.4	859.7	614.4	408.2	277.1	6.1
51°	1721.5	1693.9	1605.1	1455.5	1242.1	1005.8	744.7	511.7	337.3	229.9	5.7
52°	1560.7	1557.5	1461.2	1309.7	1103.5	876.5	633.0	431.8	286.1	193.0	5.4
53°	1387.8	1367.0	1282.9	1146.8	948.8	741.9	536.7	364.1	246.3	164.3	4.7
54°	1190.9	1167.6	1077.4	954.6	775.2	607.6	432.5	294.3	205.2	138.9	4.3
55°	971.7	932.0	866.5	740.4	605.5	463.7	334.1	233.1	164.0	115.7	3.6
56°	737.2	697.5	660.6	567.9	444.3	345.9	248.8	178.7	128.2	91.3	3.2
57°	512.7	510.6	450.1	378.8	297.2	235.6	170.4	126.0	90.6	70.9	2.5
58°	332.6	321.5	282.9	241.7	194.4	147.2	109.6	85.6	61.6	48.3	2.1
59°	233.1	210.9	190.1	161.1	122.5	92.7	70.5	54.8	42.6	33.7	1.4
60°	143.2	138.6	124.6	98.1	79.5	65.5	52.6	40.5	31.2	24.0	0.7
62.5°	40.8	41.5	37.6	33.3	28.6	24.7	22.2	19.0	15.8	12.5	0.0
65°	9.3	9.0	9.7	9.0	8.2	8.2	7.2	6.4	5.7	5.4	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°	2.9	2.9	2.5	2.5	2.5	2.1	2.1	1.8	1.8	1.4	0.0
70°	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.4	0.4	0.0
72.5°	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.4	0.7	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°	26.5	26.5	26.5	26.5	26.5	26.5
2.5°	27.6	26.1	25.1	24.0	23.6	23.6
5°	26.9	24.7	22.6	21.5	20.8	20.8
7.5°	24.7	22.2	20.1	19.0	18.6	18.6
10°	22.2	19.3	17.2	16.5	16.5	16.1
12.5°	19.3	16.5	15.0	14.7	14.7	14.7
15°	16.1	14.0	12.9	12.9	13.2	13.6
17.5°	13.6	11.5	11.1	11.8	12.5	12.5
20°	11.5	10.0	10.0	10.7	11.5	11.8
22.5°	9.7	8.6	9.0	10.0	11.1	11.5
25°	8.6	7.5	8.2	9.3	10.4	11.1
27.5°	7.2	6.8	7.5	9.0	10.4	10.7
30°	6.1	6.1	7.2	8.6	10.0	10.4
31°	5.7	5.7	7.2	8.6	10.0	10.4
32°	5.4	5.7	6.8	8.6	10.0	10.4
33°	5.0	5.4	6.8	8.2	10.0	10.4
34°	4.7	5.4	6.8	8.2	10.0	10.4
35°	4.3	5.4	6.8	8.2	10.0	10.4
36°	3.9	5.0	6.4	8.2	10.0	10.4
37°	3.6	5.0	6.4	8.2	10.0	10.4
38°	3.2	4.7	6.4	8.2	10.0	10.4
39°	3.2	4.7	6.1	8.2	9.7	10.4
40°	2.9	4.3	6.1	8.2	9.7	10.4
41°	2.5	4.3	6.1	7.9	9.7	10.4
42°	2.1	3.9	5.7	7.9	9.7	10.4
43°	1.8	3.9	5.7	7.9	9.7	10.4
44°	1.8	3.6	5.7	7.9	9.7	10.4
45°	1.4	3.6	5.7	7.9	9.7	10.4
46°	1.1	3.6	5.7	7.9	9.7	10.4
47°	1.1	3.2	5.4	7.9	9.7	10.4
48°	0.7	3.2	5.4	7.9	9.7	10.4
49°	0.7	3.2	5.4	7.9	9.7	10.7
50°	0.7	3.2	5.4	7.5	9.7	10.7
51°	0.4	3.2	5.4	7.5	9.7	10.7
52°	0.4	3.2	5.0	7.5	10.0	10.7
53°	0.4	2.9	5.0	7.5	10.0	10.7
54°	0.4	2.9	5.0	7.5	10.0	10.4
55°	0.4	2.9	5.0	7.5	9.7	10.4
56°	0.4	2.5	5.0	7.5	9.7	10.4
57°	0.4	2.5	4.7	7.2	9.7	10.0
58°	0.4	2.5	4.7	7.2	9.7	10.0
59°	0.4	2.5	4.7	7.2	9.3	10.0
60°	0.7	2.1	4.3	6.8	9.3	10.0
62.5°	0.7	2.1	4.3	6.8	9.0	9.7
65°	0.7	2.1	3.9	6.4	9.0	9.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	1.8	3.6	6.1	8.6	9.3
70°	0.7	2.1	3.6	5.7	8.2	9.0
72.5°	1.1	1.8	3.2	5.4	7.9	8.6
75°	1.1	1.8	3.2	5.0	7.5	7.9
77.5°	1.4	1.8	2.9	4.3	6.8	7.2
80°	1.4	1.8	2.5	3.6	5.7	6.1
82.5°	1.4	1.8	1.8	2.9	4.3	4.7
85°	1.1	1.4	1.4	1.8	2.9	3.2
87.5°	1.1	1.4	1.1	0.7	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)