

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: P1325114

Luminaire Tested: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

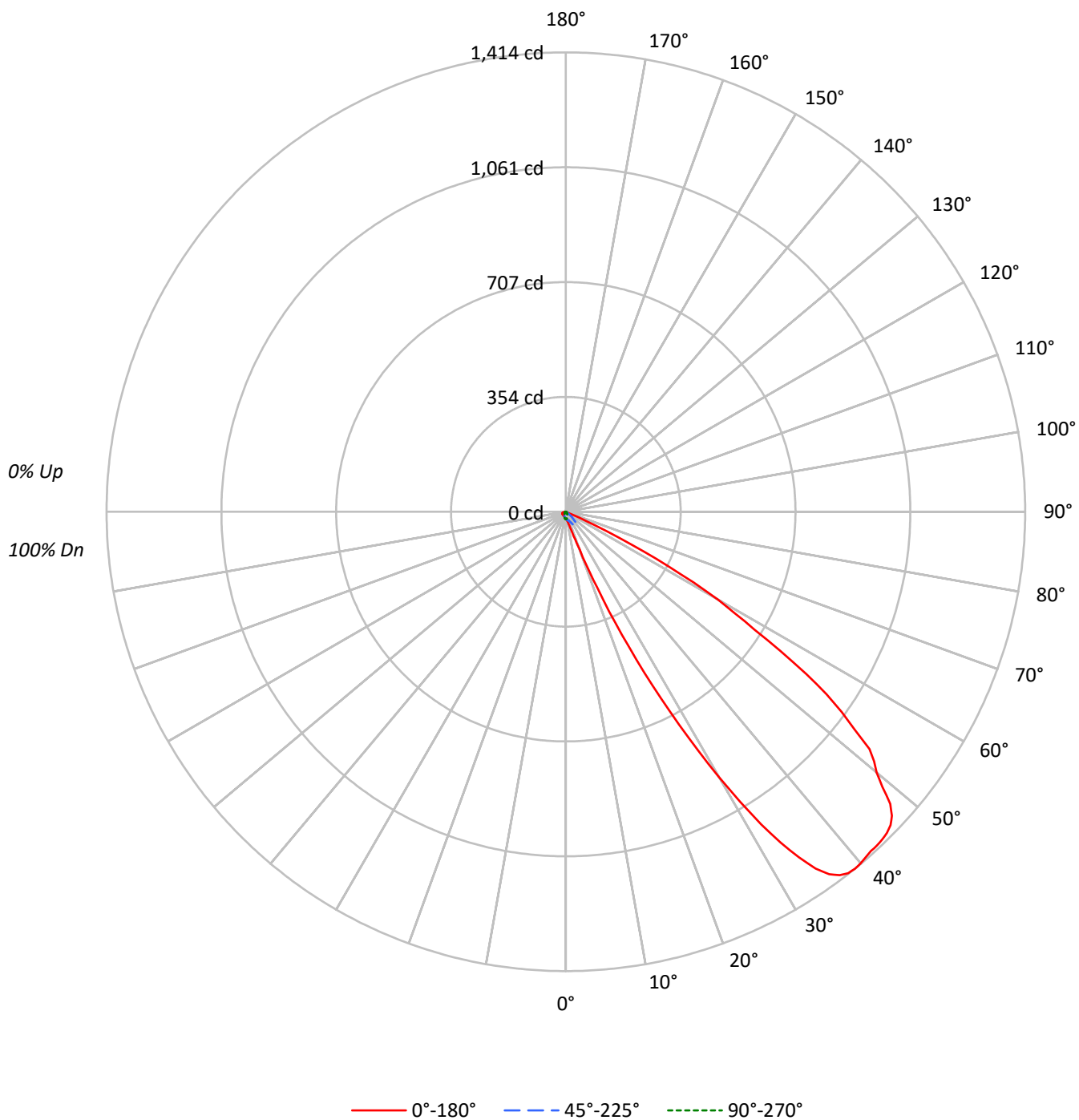
Lumens per Lamp: N/A
Luminaire Lumens: 436.9 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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				0
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	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26
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	20	31	24	20	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3875	3875	3875	3875	3875
5°	4305	4166	3821	3475	3406
10°	5194	4424	3515	3165	3095
15°	8523	4796	3013	2799	2871
20°	22506	5663	2493	2493	2712
25°	86785	7012	1976	2280	2660
30°	187232	9347	1591	2227	2625
35°	281812	11059	1346	2187	2691
40°	317514	11106	1169	2248	2878
45°	340448	8598	1072	2338	3118
50°	334619	5385	965	2465	3430
55°	294376	2642	961	2762	3843
60°	186345	551	1102	3031	4271
65°	38103	163	1141	3260	4727
70°	806	201	1209	3626	5438
75°	799	532	1331	3993	6122
80°	793	397	1587	4364	7141
85°	790	790	3162	4742	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 346593 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	6.9	1.6
20°-30°	33.9	7.8
30°-40°	110.4	25.3
40°-50°	152.2	34.8
50°-60°	106.0	24.3
60°-70°	20.1	4.6
70°-80°	3.6	0.8
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°	43.0	9.8
0°-40°	153.4	35.1
0°-60°	411.5	94.2
0°-90°	436.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	25	24	22	20	20	3
15°	48	27	17	16	16	17
25°	457	37	10	12	14	235
35°	1340	53	6	10	13	810
45°	1398	35	4	10	13	1063
55°	980	9	3	9	13	838
65°	94	0	3	8	12	165
75°	1	1	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°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
2.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	22.9	22.5
5°	24.9	24.9	24.9	24.9	24.5	24.5	24.5	24.1	24.1	23.3	22.1
7.5°	26.5	26.5	26.5	26.5	26.1	25.7	25.3	25.3	24.9	22.9	21.3
10°	29.7	29.7	29.3	28.9	28.5	27.7	27.3	26.5	25.3	22.5	20.1
12.5°	36.1	35.3	34.9	34.1	32.9	31.3	29.7	28.5	25.7	21.7	18.9
15°	47.8	47.0	45.3	42.9	40.5	37.3	34.5	31.7	26.9	20.5	16.9
17.5°	68.2	65.8	63.4	59.4	53.4	47.8	41.7	36.5	28.5	19.3	15.3
20°	122.8	121.2	106.8	95.5	77.5	64.6	52.6	43.7	30.9	18.1	13.6
22.5°	253.2	236.4	212.7	174.2	135.6	99.9	72.6	55.0	33.3	16.5	12.0
25°	456.7	430.2	379.3	305.0	225.1	159.3	105.1	71.8	36.9	14.8	10.4
27.5°	691.5	664.6	585.5	483.2	352.8	240.4	150.1	95.1	41.7	13.2	9.2
30°	941.5	918.6	818.3	676.6	497.2	336.7	201.1	118.8	47.0	11.6	8.0
31°	1042.2	1012.9	904.6	753.7	565.1	376.4	221.5	128.8	49.0	11.2	7.6
32°	1134.9	1101.6	989.3	827.5	620.0	419.4	244.0	137.7	50.6	10.4	7.2
33°	1214.8	1175.9	1067.5	897.4	680.6	459.5	267.3	146.1	51.8	9.6	6.8
34°	1282.6	1248.9	1132.5	967.6	734.4	498.0	290.2	154.5	52.6	9.2	6.4
35°	1340.4	1309.9	1194.7	1021.0	787.0	535.4	311.0	162.5	52.6	8.4	6.4
36°	1379.3	1352.9	1248.5	1075.5	831.1	567.1	328.7	169.8	52.6	7.6	6.0
37°	1400.6	1374.9	1283.8	1120.5	874.5	598.4	344.7	175.4	52.2	7.2	5.6
38°	1411.5	1389.0	1309.9	1157.0	904.6	620.8	358.8	179.8	51.8	6.4	5.6
39°	1414.3	1395.4	1326.4	1183.5	933.9	643.3	368.8	182.2	50.6	6.0	5.2
40°	1412.3	1395.8	1335.2	1207.2	956.4	661.0	376.0	183.0	49.4	5.2	5.2
41°	1408.2	1395.4	1341.6	1223.6	974.4	672.2	378.8	181.4	47.8	4.4	4.8
42°	1404.6	1390.6	1344.4	1234.9	986.9	677.8	378.4	178.2	45.3	4.0	4.8
43°	1404.6	1388.6	1344.8	1242.1	992.9	678.2	373.6	172.2	42.1	3.6	4.4
44°	1402.2	1387.4	1346.8	1246.9	994.5	674.6	366.0	165.7	38.5	3.2	4.4
45°	1397.8	1382.2	1346.4	1247.3	991.7	665.8	353.6	157.3	35.3	2.4	4.4
46°	1389.4	1375.3	1342.8	1244.5	983.2	653.0	338.7	148.9	31.7	2.0	4.0
47°	1372.5	1361.7	1333.2	1234.9	970.4	634.1	321.1	139.3	28.9	1.6	4.0
48°	1343.6	1336.0	1316.7	1213.6	945.9	610.8	302.2	128.8	26.1	1.6	4.0
49°	1290.7	1284.6	1273.4	1179.5	914.6	582.3	281.7	117.2	23.3	1.2	4.0
50°	1248.9	1242.5	1219.6	1122.1	869.7	546.2	259.3	105.5	20.1	0.8	3.6
51°	1221.2	1210.8	1174.7	1055.5	804.3	498.0	234.8	93.9	16.9	0.8	3.6
52°	1186.3	1170.7	1125.7	995.7	744.5	449.9	208.3	82.3	14.8	0.8	3.6
53°	1113.3	1107.7	1063.1	931.5	684.7	403.7	181.0	72.6	12.8	0.8	3.6
54°	1049.5	1041.0	980.4	842.4	619.6	352.4	152.9	64.2	10.8	0.8	3.6
55°	980.4	964.0	910.2	767.3	543.4	305.0	126.0	55.4	8.8	0.8	3.2
56°	893.3	878.9	821.1	687.1	473.2	256.8	105.5	45.3	6.8	0.8	3.2
57°	787.4	774.2	729.6	588.3	400.1	209.9	85.9	36.5	5.2	0.8	3.2
58°	685.1	670.2	619.2	493.6	323.1	166.5	71.8	29.7	4.0	0.8	3.2
59°	606.4	586.3	520.5	414.6	252.8	126.4	57.0	23.7	2.8	0.8	3.2
60°	541.0	524.5	456.3	345.1	198.3	93.1	42.1	18.1	1.6	0.8	3.2
62.5°	313.4	309.0	247.6	177.8	93.5	43.3	20.9	8.4	0.8	1.2	3.2
65°	93.5	81.5	63.4	37.7	24.1	14.4	7.6	2.8	0.4	1.2	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.6	0.8	0.4	1.2	2.8
70°	1.6	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	1.2	2.4
72.5°	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.8	1.2	2.0
75°	1.2	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	1.2	2.0
77.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.8	1.2	2.0
80°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.2	1.2
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):

	112.5°	135°	157.5°	180°
0°	22.5	22.5	22.5	22.5
2.5°	21.7	21.3	20.9	20.9
5°	20.9	20.1	20.1	19.7
7.5°	19.7	18.9	18.9	18.9
10°	18.5	18.1	18.1	17.7
12.5°	16.9	16.9	16.9	16.9
15°	15.7	15.7	16.1	16.1
17.5°	14.0	14.4	15.3	15.7
20°	12.8	13.6	14.4	14.8
22.5°	12.0	12.8	14.0	14.4
25°	10.8	12.0	13.6	14.0
27.5°	10.0	11.6	12.8	13.6
30°	9.2	11.2	12.4	13.2
31°	9.2	10.8	12.4	13.2
32°	8.8	10.4	12.4	12.8
33°	8.8	10.4	12.4	12.8
34°	8.4	10.4	12.0	12.8
35°	8.4	10.4	12.0	12.8
36°	8.0	10.0	12.0	12.8
37°	8.0	10.0	12.0	12.8
38°	7.6	10.0	12.0	12.8
39°	7.6	10.0	12.0	12.8
40°	7.6	10.0	12.0	12.8
41°	7.2	10.0	12.0	12.8
42°	7.2	10.0	12.0	12.8
43°	7.2	9.6	12.0	12.8
44°	7.2	9.6	12.0	12.8
45°	6.8	9.6	12.0	12.8
46°	6.8	9.6	12.0	12.8
47°	6.8	9.6	12.0	12.8
48°	6.8	9.6	12.0	12.8
49°	6.8	9.6	12.0	12.8
50°	6.4	9.2	12.0	12.8
51°	6.4	9.2	12.0	12.8
52°	6.4	9.2	12.0	12.8
53°	6.4	9.2	12.0	12.8
54°	6.0	9.2	12.0	12.8
55°	6.0	9.2	12.0	12.8
56°	6.0	9.2	12.0	12.4
57°	6.0	9.2	11.6	12.4
58°	6.0	8.8	11.6	12.4
59°	6.0	8.8	11.6	12.4
60°	6.0	8.8	11.6	12.4
62.5°	5.6	8.8	11.2	12.0
65°	5.2	8.0	11.2	11.6



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	5.2	7.6	10.4	11.2
70°	4.8	7.2	10.0	10.8
72.5°	4.0	6.8	9.2	10.0
75°	3.6	6.0	8.4	9.2
77.5°	3.2	5.2	7.6	8.0
80°	2.8	4.4	6.4	7.2
82.5°	2.0	3.2	5.2	5.6
85°	1.6	2.4	3.6	4.0
87.5°	1.2	1.2	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)