Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1325121

Luminaire Tested: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MW_5000K

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1325121
	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 1MW_5000K
Description:	3in Adjustable Tunable White LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	435.0 lumens
Efficiency:	N/A
Efficacy:	73.7 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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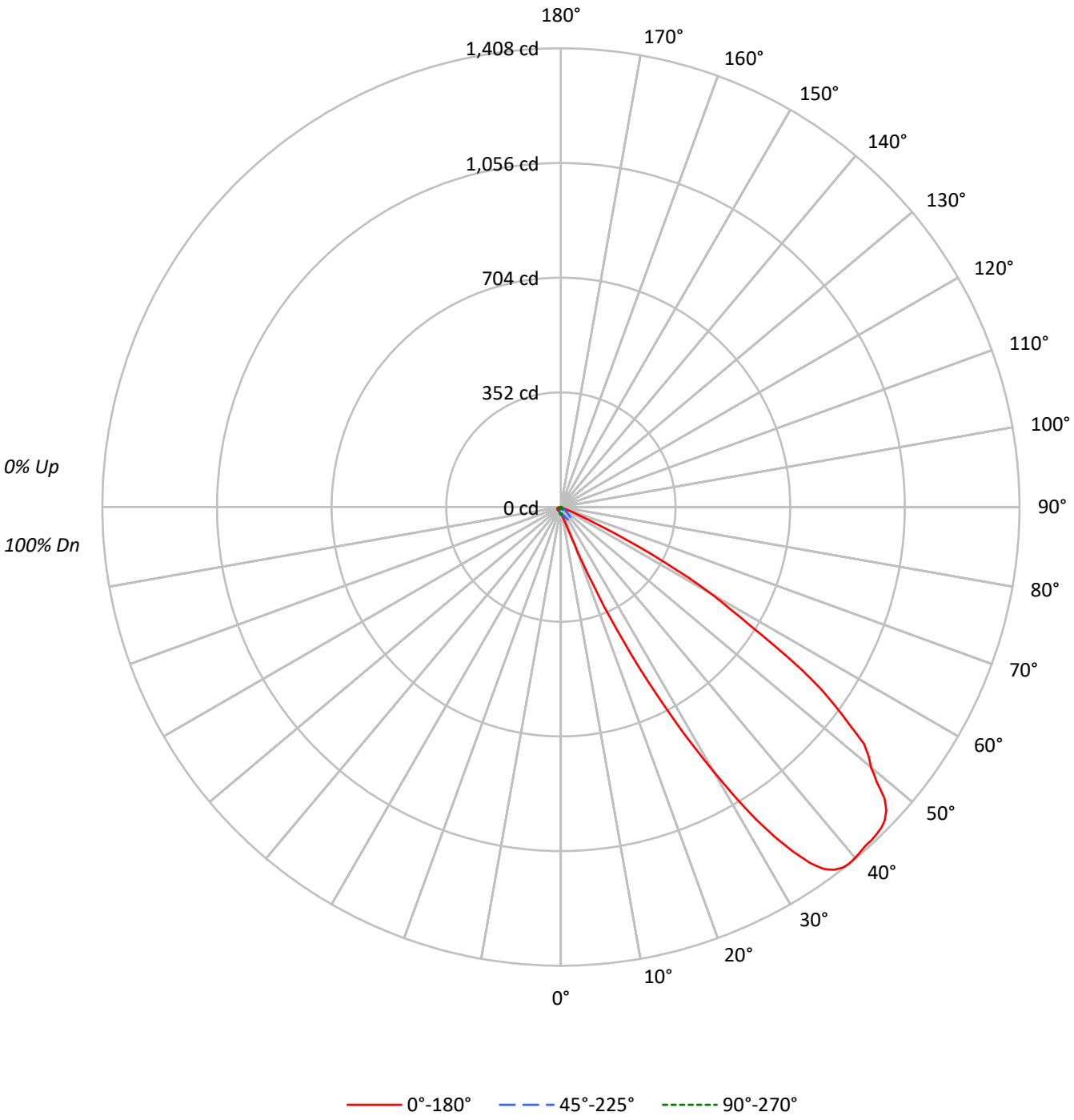
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24
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	20	31	24	20	30	24	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3858	3858	3858	3858	3858
5°	4287	4149	3803	3458	3388
10°	5176	4407	3498	3148	3078
15°	8469	4778	2995	2781	2853
20°	22396	5645	2493	2493	2712
25°	86386	6993	1976	2280	2660
30°	186377	9287	1591	2227	2625
35°	280530	10996	1346	2187	2691
40°	316053	11039	1169	2248	2878
45°	338889	8573	1072	2338	3118
50°	333092	5359	965	2465	3430
55°	293025	2642	961	2762	3843
60°	185484	551	1102	3031	4271
65°	37940	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: 345002 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°	33.8	7.8
30°-40°	109.9	25.3
40°-50°	151.5	34.8
50°-60°	105.5	24.3
60°-70°	20.0	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°	42.8	9.8
0°-40°	152.7	35.1
0°-60°	409.7	94.2
0°-90°	435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	25	24	22	20	20	2
15°	48	27	17	16	16	17
25°	455	37	10	12	14	234
35°	1334	52	6	10	13	806
45°	1391	35	4	10	13	1058
55°	976	9	3	9	13	834
65°	93	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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	22.8	22.4
5°	24.8	24.8	24.8	24.8	24.4	24.4	24.4	24.0	24.0	23.2	22.0
7.5°	26.4	26.4	26.4	26.4	26.0	25.6	25.2	25.2	24.8	22.8	21.2
10°	29.6	29.6	29.2	28.8	28.4	27.6	27.2	26.4	25.2	22.4	20.0
12.5°	36.0	35.2	34.8	34.0	32.8	31.2	29.6	28.4	25.6	21.6	18.8
15°	47.5	46.7	45.1	42.7	40.3	37.2	34.4	31.6	26.8	20.4	16.8
17.5°	67.9	65.5	63.1	59.1	53.1	47.5	41.5	36.4	28.4	19.2	15.2
20°	122.2	120.6	106.3	95.1	77.1	64.3	52.3	43.5	30.8	18.0	13.6
22.5°	252.1	235.3	211.7	173.4	135.0	99.5	72.3	54.7	33.2	16.4	12.0
25°	454.6	428.3	377.5	303.6	224.1	158.6	104.7	71.5	36.8	14.8	10.4
27.5°	688.3	661.6	582.9	481.0	351.1	239.3	149.4	94.7	41.5	13.2	9.2
30°	937.2	914.4	814.6	673.5	495.0	335.2	200.1	118.2	46.7	11.6	8.0
31°	1037.5	1008.3	900.4	750.2	562.5	374.7	220.5	128.2	48.7	11.2	7.6
32°	1129.7	1096.6	984.7	823.7	617.2	417.5	242.9	137.0	50.3	10.4	7.2
33°	1209.2	1170.5	1062.6	893.3	677.5	457.4	266.1	145.4	51.5	9.6	6.8
34°	1276.8	1243.2	1127.4	963.2	731.1	495.8	288.8	153.8	52.3	9.2	6.4
35°	1334.3	1303.9	1189.3	1016.3	783.4	532.9	309.6	161.8	52.3	8.4	6.4
36°	1373.0	1346.7	1242.8	1070.6	827.3	564.5	327.2	169.0	52.3	7.6	6.0
37°	1394.2	1368.6	1278.0	1115.4	870.5	595.6	343.2	174.6	51.9	7.2	5.6
38°	1405.0	1382.6	1303.9	1151.7	900.4	618.0	357.1	179.0	51.5	6.4	5.6
39°	1407.8	1389.0	1320.3	1178.1	929.6	640.4	367.1	181.4	50.3	6.0	5.2
40°	1405.8	1389.4	1329.1	1201.7	952.0	658.0	374.3	182.2	49.1	5.2	5.2
41°	1401.8	1389.0	1335.5	1218.0	970.0	669.1	377.1	180.6	47.5	4.4	4.8
42°	1398.2	1384.2	1338.3	1229.2	982.3	674.7	376.7	177.4	45.1	4.0	4.8
43°	1398.2	1382.2	1338.7	1236.4	988.3	675.1	371.9	171.4	41.9	3.6	4.4
44°	1395.8	1381.0	1340.7	1241.2	989.9	671.5	364.3	165.0	38.4	3.2	4.4
45°	1391.4	1375.8	1340.3	1241.6	987.1	662.7	351.9	156.6	35.2	2.4	4.4
46°	1383.0	1369.0	1336.7	1238.8	978.7	650.0	337.2	148.2	31.6	2.0	4.0
47°	1366.2	1355.5	1327.1	1229.2	966.0	631.2	319.6	138.6	28.8	1.6	4.0
48°	1337.5	1329.9	1310.7	1208.0	941.6	608.0	300.8	128.2	26.0	1.6	4.0
49°	1284.8	1278.8	1267.6	1174.1	910.4	579.7	280.4	116.7	23.2	1.2	4.0
50°	1243.2	1236.8	1214.0	1117.0	865.7	543.7	258.1	105.1	20.0	0.8	3.6
51°	1215.6	1205.3	1169.3	1050.7	800.6	495.8	233.7	93.5	16.8	0.8	3.6
52°	1180.9	1165.3	1120.6	991.1	741.0	447.8	207.3	81.9	14.8	0.8	3.6
53°	1108.2	1102.6	1058.2	927.2	681.5	401.9	180.2	72.3	12.8	0.8	3.6
54°	1044.7	1036.3	975.9	838.5	616.8	350.7	152.2	63.9	10.8	0.8	3.6
55°	975.9	959.6	906.0	763.8	540.9	303.6	125.4	55.1	8.8	0.8	3.2
56°	889.3	874.9	817.4	683.9	471.0	255.7	105.1	45.1	6.8	0.8	3.2
57°	783.8	770.6	726.3	585.6	398.3	208.9	85.5	36.4	5.2	0.8	3.2
58°	681.9	667.1	616.4	491.4	321.6	165.8	71.5	29.6	4.0	0.8	3.2
59°	603.6	583.7	518.1	412.7	251.7	125.8	56.7	23.6	2.8	0.8	3.2
60°	538.5	522.1	454.2	343.6	197.3	92.7	41.9	18.0	1.6	0.8	3.2
62.5°	312.0	307.6	246.5	177.0	93.1	43.1	20.8	8.4	0.8	1.2	3.2
65°	93.1	81.1	63.1	37.6	24.0	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°	22.4	22.4	22.4	22.4
2.5°	21.6	21.2	20.8	20.8
5°	20.8	20.0	20.0	19.6
7.5°	19.6	18.8	18.8	18.8
10°	18.4	18.0	18.0	17.6
12.5°	16.8	16.8	16.8	16.8
15°	15.6	15.6	16.0	16.0
17.5°	14.0	14.4	15.2	15.6
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)