

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: P1312745

Luminaire Tested: LDSQA3D17R409050DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312745
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: LDSQA3D17R409050DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

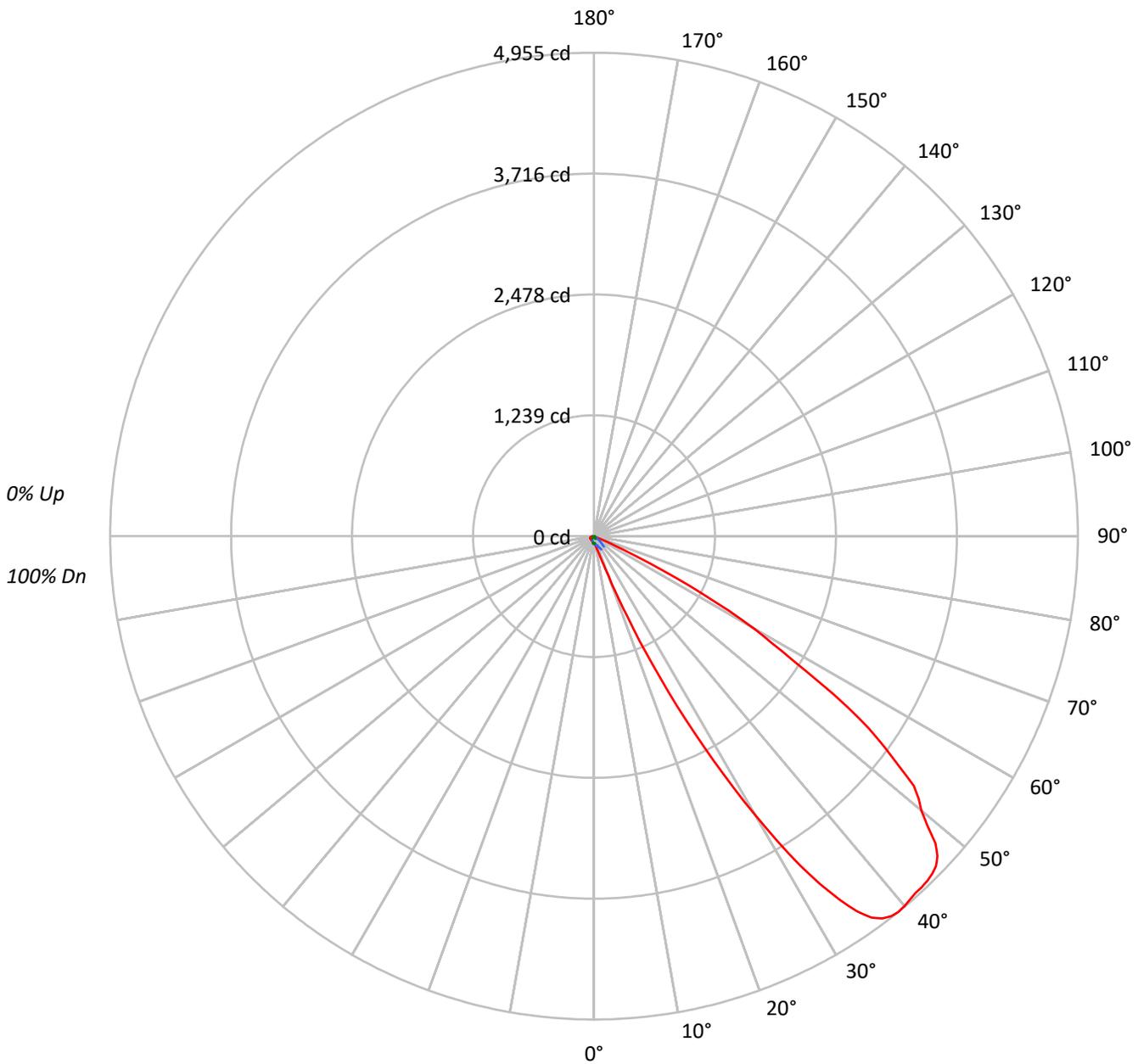
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1531.0 lumens
Efficiency: N/A
Efficacy: 72.2 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): 21.2
Input Voltage (V): NR
Input Current (A_{in}): 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	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	62	62	62	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	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	38	50	43	37	48	42	37	37	37	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	26	26	26	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13554	13554	13554	13554	13554
5°	15075	14591	13364	12153	11911
10°	18187	15494	12294	11070	10825
15°	29829	16796	10537	9771	10020
20°	78845	19849	8761	8761	9530
25°	304043	24589	6955	8019	9349
30°	655958	32713	5588	7835	9227
35°	987332	38727	4731	7695	9461
40°	1112368	38871	4114	7914	10117
45°	1192736	30128	3775	8208	10960
50°	1172332	18836	3403	8654	12057
55°	1031367	9278	3363	9698	13512
60°	652827	1929	3858	10643	15018
65°	133501	571	3994	11451	16627
70°	2820	705	4230	12740	19135
75°	2795	1863	4658	14040	21493
80°	2777	1389	5554	15373	25092
85°	2766	2766	11066	16599	27862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 1214299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.5
10°-20°	24.3	1.6
20°-30°	118.9	7.8
30°-40°	386.8	25.3
40°-50°	533.2	34.8
50°-60°	371.4	24.3
60°-70°	70.4	4.6
70°-80°	12.7	0.8
80°-90°	5.9	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°	150.5	9.8
0°-40°	537.3	35.1
0°-60°	1442.0	94.2
0°-90°	1531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	87	84	77	70	69	9
15°	167	94	59	55	56	61
25°	1600	129	37	42	49	824
35°	4696	184	22	37	45	2838
45°	4897	124	16	34	45	3724
55°	3435	31	11	32	45	2936
65°	328	1	10	28	41	579
75°	4	3	7	21	32	4
85°	1	1	6	8	14	1
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°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2.5°	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	80.1	78.7
5°	87.2	87.2	87.2	87.2	85.8	85.8	85.8	84.4	84.4	81.5	77.3
7.5°	92.8	92.8	92.8	92.8	91.4	90.0	88.6	88.6	87.2	80.1	74.5
10°	104.0	104.0	102.6	101.2	99.8	97.0	95.6	92.8	88.6	78.7	70.3
12.5°	126.5	123.7	122.3	119.5	115.3	109.7	104.0	99.8	90.0	75.9	66.1
15°	167.3	164.5	158.9	150.4	142.0	130.8	120.9	111.1	94.2	71.7	59.1
17.5°	239.0	230.6	222.1	208.1	187.0	167.3	146.2	127.9	99.8	67.5	53.4
20°	430.2	424.6	374.0	334.6	271.4	226.4	184.2	153.3	108.3	63.3	47.8
22.5°	887.2	828.1	745.2	610.2	475.2	350.1	254.5	192.6	116.7	57.6	42.2
25°	1600.0	1507.2	1328.7	1068.6	788.8	558.2	368.4	251.7	129.4	52.0	36.6
27.5°	2422.6	2328.4	2051.4	1692.8	1235.9	842.2	525.8	333.2	146.2	46.4	32.3
30°	3298.5	3218.4	2866.9	2370.5	1742.0	1179.6	704.4	416.2	164.5	40.8	28.1
31°	3651.4	3548.8	3169.1	2640.5	1979.7	1318.8	776.1	451.3	171.5	39.4	26.7
32°	3976.2	3859.5	3465.8	2899.2	2172.3	1469.3	854.9	482.3	177.2	36.6	25.3
33°	4256.0	4119.6	3740.0	3143.8	2384.6	1609.9	936.4	511.8	181.4	33.7	23.9
34°	4493.6	4375.5	3967.8	3389.9	2573.0	1744.9	1016.5	541.3	184.2	32.3	22.5
35°	4696.1	4589.2	4185.7	3576.9	2757.2	1875.6	1089.7	569.4	184.2	29.5	22.5
36°	4832.5	4739.7	4374.1	3768.1	2911.8	1986.7	1151.5	594.7	184.2	26.7	21.1
37°	4907.0	4817.0	4497.8	3925.6	3063.7	2096.4	1207.8	614.4	182.8	25.3	19.7
38°	4944.9	4866.2	4589.2	4053.5	3169.1	2175.1	1257.0	629.9	181.4	22.5	19.7
39°	4954.8	4888.7	4646.9	4146.3	3271.8	2253.8	1292.1	638.3	177.2	21.1	18.3
40°	4947.8	4890.1	4677.8	4229.3	3350.5	2315.7	1317.4	641.1	172.9	18.3	18.3
41°	4933.7	4888.7	4700.3	4286.9	3413.8	2355.1	1327.3	635.5	167.3	15.5	16.9
42°	4921.0	4871.8	4710.1	4326.3	3457.4	2374.8	1325.9	624.3	158.9	14.1	16.9
43°	4921.0	4864.8	4711.5	4351.6	3478.5	2376.2	1309.0	603.2	147.6	12.7	15.5
44°	4912.6	4860.6	4718.6	4368.5	3484.1	2363.5	1282.3	580.7	135.0	11.2	15.5
45°	4897.1	4842.3	4717.2	4369.9	3474.3	2332.6	1238.7	551.2	123.7	8.4	15.5
46°	4867.6	4818.4	4704.5	4360.0	3444.7	2287.6	1186.7	521.6	111.1	7.0	14.1
47°	4808.6	4770.6	4670.8	4326.3	3399.7	2221.5	1124.8	487.9	101.2	5.6	14.1
48°	4707.3	4680.6	4613.1	4251.8	3314.0	2139.9	1058.7	451.3	91.4	5.6	14.1
49°	4521.7	4500.6	4461.3	4132.3	3204.3	2040.1	987.0	410.6	81.5	4.2	14.1
50°	4375.5	4353.0	4272.9	3931.2	3046.8	1913.6	908.3	369.8	70.3	2.8	12.7
51°	4278.5	4241.9	4115.4	3697.8	2817.6	1744.9	822.5	329.0	59.1	2.8	12.7
52°	4156.2	4101.3	3943.9	3488.3	2608.1	1576.1	729.7	288.2	52.0	2.8	12.7
53°	3900.3	3880.6	3724.5	3263.4	2398.7	1414.4	634.1	254.5	45.0	2.8	12.7
54°	3676.7	3647.2	3434.9	2951.2	2170.9	1234.5	535.7	225.0	38.0	2.8	12.7
55°	3434.9	3377.2	3188.8	2688.3	1903.7	1068.6	441.5	194.0	30.9	2.8	11.2
56°	3129.8	3079.2	2876.7	2407.1	1657.7	899.8	369.8	158.9	23.9	2.8	11.2
57°	2758.6	2712.2	2556.1	2061.2	1401.8	735.3	300.9	127.9	18.3	2.8	11.2
58°	2400.1	2348.0	2169.5	1729.4	1131.8	583.5	251.7	104.0	14.1	2.8	11.2
59°	2124.5	2054.2	1823.6	1452.4	885.8	442.9	199.7	83.0	9.8	2.8	11.2
60°	1895.3	1837.7	1598.6	1209.2	694.6	326.2	147.6	63.3	5.6	2.8	11.2
62.5°	1098.1	1082.6	867.5	622.9	327.6	151.8	73.1	29.5	2.8	4.2	11.2
65°	327.6	285.4	222.1	132.2	84.4	50.6	26.7	9.8	1.4	4.2	9.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	9.8	9.8	9.8	9.8	9.8	9.8	5.6	2.8	1.4	4.2	9.8
70°	5.6	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	4.2	8.4
72.5°	4.2	4.2	4.2	4.2	2.8	2.8	2.8	1.4	2.8	4.2	7.0
75°	4.2	2.8	2.8	2.8	2.8	1.4	1.4	1.4	2.8	4.2	7.0
77.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	2.8	4.2	7.0
80°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.6
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.6
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	4.2	4.2
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°	78.7	78.7	78.7	78.7
2.5°	75.9	74.5	73.1	73.1
5°	73.1	70.3	70.3	68.9
7.5°	68.9	66.1	66.1	66.1
10°	64.7	63.3	63.3	61.9
12.5°	59.1	59.1	59.1	59.1
15°	54.8	54.8	56.2	56.2
17.5°	49.2	50.6	53.4	54.8
20°	45.0	47.8	50.6	52.0
22.5°	42.2	45.0	49.2	50.6
25°	38.0	42.2	47.8	49.2
27.5°	35.2	40.8	45.0	47.8
30°	32.3	39.4	43.6	46.4
31°	32.3	38.0	43.6	46.4
32°	30.9	36.6	43.6	45.0
33°	30.9	36.6	43.6	45.0
34°	29.5	36.6	42.2	45.0
35°	29.5	36.6	42.2	45.0
36°	28.1	35.2	42.2	45.0
37°	28.1	35.2	42.2	45.0
38°	26.7	35.2	42.2	45.0
39°	26.7	35.2	42.2	45.0
40°	26.7	35.2	42.2	45.0
41°	25.3	35.2	42.2	45.0
42°	25.3	35.2	42.2	45.0
43°	25.3	33.7	42.2	45.0
44°	25.3	33.7	42.2	45.0
45°	23.9	33.7	42.2	45.0
46°	23.9	33.7	42.2	45.0
47°	23.9	33.7	42.2	45.0
48°	23.9	33.7	42.2	45.0
49°	23.9	33.7	42.2	45.0
50°	22.5	32.3	42.2	45.0
51°	22.5	32.3	42.2	45.0
52°	22.5	32.3	42.2	45.0
53°	22.5	32.3	42.2	45.0
54°	21.1	32.3	42.2	45.0
55°	21.1	32.3	42.2	45.0
56°	21.1	32.3	42.2	43.6
57°	21.1	32.3	40.8	43.6
58°	21.1	30.9	40.8	43.6
59°	21.1	30.9	40.8	43.6
60°	21.1	30.9	40.8	43.6
62.5°	19.7	30.9	39.4	42.2
65°	18.3	28.1	39.4	40.8



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	18.3	26.7	36.6	39.4
70°	16.9	25.3	35.2	38.0
72.5°	14.1	23.9	32.3	35.2
75°	12.7	21.1	29.5	32.3
77.5°	11.2	18.3	26.7	28.1
80°	9.8	15.5	22.5	25.3
82.5°	7.0	11.2	18.3	19.7
85°	5.6	8.4	12.7	14.1
87.5°	4.2	4.2	7.0	7.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)