

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: P1315816

Luminaire Tested: LDSQA3D17R509735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

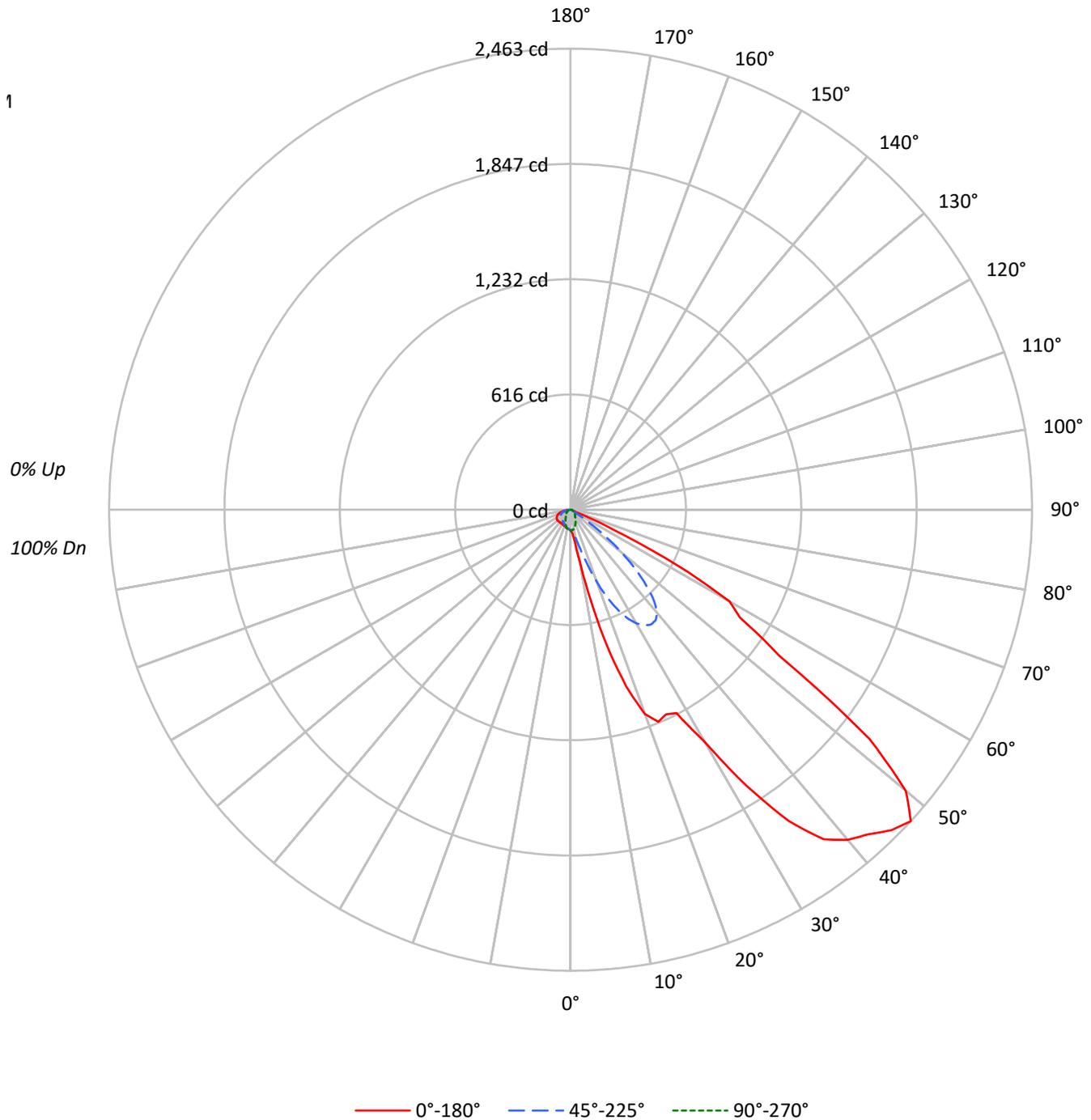
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1389.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
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





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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	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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19013	19013	19013	19013	19013
5°	22613	21161	18879	18049	17841
10°	48669	26232	18048	17418	17628
15°	134758	42988	16261	16689	17331
20°	213058	75418	14076	16055	16935
25°	229115	110805	12086	15506	17102
30°	284398	139087	10500	15273	17659
35°	426776	157389	9083	15390	18670
40°	517605	161826	8094	15917	19694
45°	589682	138805	7891	16952	21628
50°	625860	95785	8038	18326	24114
55°	408865	38554	7927	19817	26663
60°	337212	6613	7853	21493	29347
65°	101675	3423	7335	22984	32275
70°	4230	3626	7251	23566	35047
75°	3993	3993	7187	23955	38328
80°	3570	3570	7141	23803	39275
85°	2371	4742	9485	23712	37940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 627898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.8
10°-20°	65.8	4.7
20°-30°	169.1	12.2
30°-40°	303.7	21.9
40°-50°	405.7	29.2
50°-60°	309.0	22.2
60°-70°	93.8	6.8
70°-80°	22.4	1.6
80°-90°	8.1	0.6
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°	246.4	17.7
0°-40°	550.1	39.6
0°-60°	1264.7	91.1
0°-90°	1389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1389.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	131	122	109	104	103	17
15°	756	241	91	94	97	222
25°	1206	583	64	82	90	575
35°	2030	749	43	73	89	1246
45°	2421	570	32	70	89	1851
55°	1362	128	26	66	89	1355
65°	250	8	18	56	79	345
75°	6	6	11	36	58	6
85°	1	2	5	12	19	2
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°	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4
2.5°	117.6	117.6	117.6	117.6	117.6	117.6	116.4	116.4	116.4	114.0	111.6
5°	130.8	132.0	130.8	130.8	128.4	128.4	126.0	126.0	122.4	115.2	109.2
7.5°	171.6	170.4	169.2	164.4	160.8	152.4	148.8	142.8	132.0	115.2	106.8
10°	278.3	271.1	266.3	255.5	232.7	218.4	199.2	180.0	150.0	115.2	103.2
12.5°	483.5	482.3	467.9	431.9	399.5	355.1	308.3	261.5	184.8	112.8	98.4
15°	755.8	745.0	724.6	682.6	625.1	555.5	471.5	388.7	241.1	109.2	91.2
17.5°	988.6	975.4	959.8	917.8	851.8	764.2	663.5	549.5	317.9	104.4	84.0
20°	1162.5	1154.1	1140.9	1107.4	1045.0	965.8	853.0	715.0	411.5	98.4	76.8
22.5°	1226.1	1224.9	1227.3	1215.3	1184.1	1121.8	1013.8	869.8	503.9	91.2	69.6
25°	1205.7	1204.5	1220.1	1235.7	1242.9	1217.7	1134.9	994.6	583.1	85.2	63.6
27.5°	1224.9	1221.3	1214.1	1216.5	1236.9	1251.3	1212.9	1090.6	651.5	76.8	57.6
30°	1430.1	1409.7	1377.3	1322.1	1281.3	1277.7	1260.9	1166.1	699.4	68.4	52.8
32.5°	1750.4	1725.2	1666.4	1564.5	1467.3	1392.9	1340.1	1229.7	733.0	60.0	46.8
35°	2029.9	2012.0	1943.6	1842.8	1703.6	1564.5	1468.5	1323.3	748.6	52.8	43.2
37.5°	2219.5	2212.3	2145.1	2037.1	1895.6	1731.2	1604.0	1419.3	745.0	44.4	39.6
40°	2302.3	2280.7	2224.3	2133.1	1990.4	1842.8	1708.4	1480.5	719.8	36.0	36.0
42.5°	2351.5	2327.5	2266.3	2179.9	2039.5	1882.4	1720.4	1454.1	659.9	28.8	34.8
45°	2421.1	2395.9	2315.5	2223.1	2081.5	1899.2	1673.6	1360.5	569.9	21.6	32.4
47.5°	2463.1	2446.3	2386.3	2293.9	2122.3	1875.2	1565.7	1272.9	470.3	16.8	31.2
50°	2335.9	2319.1	2274.7	2211.1	2095.9	1794.8	1470.9	1131.3	357.5	13.2	30.0
52.5°	2010.8	2025.2	2033.5	2051.5	1967.6	1614.8	1329.3	1018.6	241.1	10.8	27.6
55°	1361.7	1383.3	1407.3	1479.3	1577.6	1437.3	1180.5	880.6	128.4	10.8	26.4
57.5°	1070.2	1063.0	1055.8	1051.0	1127.7	1185.3	1037.8	704.2	55.2	10.8	24.0
60°	979.0	957.4	943.0	946.6	985.0	962.2	821.8	459.5	19.2	10.8	22.8
62.5°	641.9	658.7	691.0	746.2	719.8	617.9	477.5	182.4	9.6	10.8	20.4
65°	249.5	241.1	249.5	265.1	229.1	170.4	106.8	32.4	8.4	9.6	18.0
67.5°	33.6	30.0	22.8	14.4	13.2	12.0	9.6	8.4	8.4	9.6	16.8
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.2	7.2	8.4	14.4
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.4	12.0
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	10.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	8.4
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	7.2
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	6.0
85°	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	3.6
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°	110.4	110.4	110.4	110.4
2.5°	109.2	106.8	106.8	106.8
5°	106.8	104.4	104.4	103.2
7.5°	103.2	102.0	102.0	102.0
10°	100.8	99.6	100.8	100.8
12.5°	96.0	97.2	98.4	98.4
15°	91.2	93.6	96.0	97.2
17.5°	86.4	91.2	93.6	94.8
20°	81.6	87.6	91.2	92.4
22.5°	78.0	84.0	88.8	91.2
25°	73.2	81.6	87.6	90.0
27.5°	68.4	78.0	85.2	88.8
30°	64.8	76.8	85.2	88.8
32.5°	61.2	74.4	84.0	87.6
35°	58.8	73.2	84.0	88.8
37.5°	56.4	72.0	84.0	87.6
40°	55.2	70.8	84.0	87.6
42.5°	54.0	70.8	84.0	88.8
45°	51.6	69.6	84.0	88.8
47.5°	50.4	69.6	84.0	88.8
50°	49.2	68.4	84.0	90.0
52.5°	48.0	67.2	84.0	90.0
55°	45.6	66.0	82.8	88.8
57.5°	44.4	64.8	81.6	86.4
60°	42.0	62.4	79.2	85.2
62.5°	39.6	60.0	76.8	81.6
65°	36.0	56.4	73.2	79.2
67.5°	32.4	51.6	69.6	75.6
70°	28.8	46.8	64.8	69.6
72.5°	25.2	42.0	60.0	63.6
75°	21.6	36.0	52.8	57.6
77.5°	18.0	31.2	44.4	48.0
80°	13.2	24.0	36.0	39.6
82.5°	10.8	18.0	26.4	28.8
85°	7.2	12.0	16.8	19.2
87.5°	3.6	6.0	8.4	9.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)