

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P835645

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-3LO-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

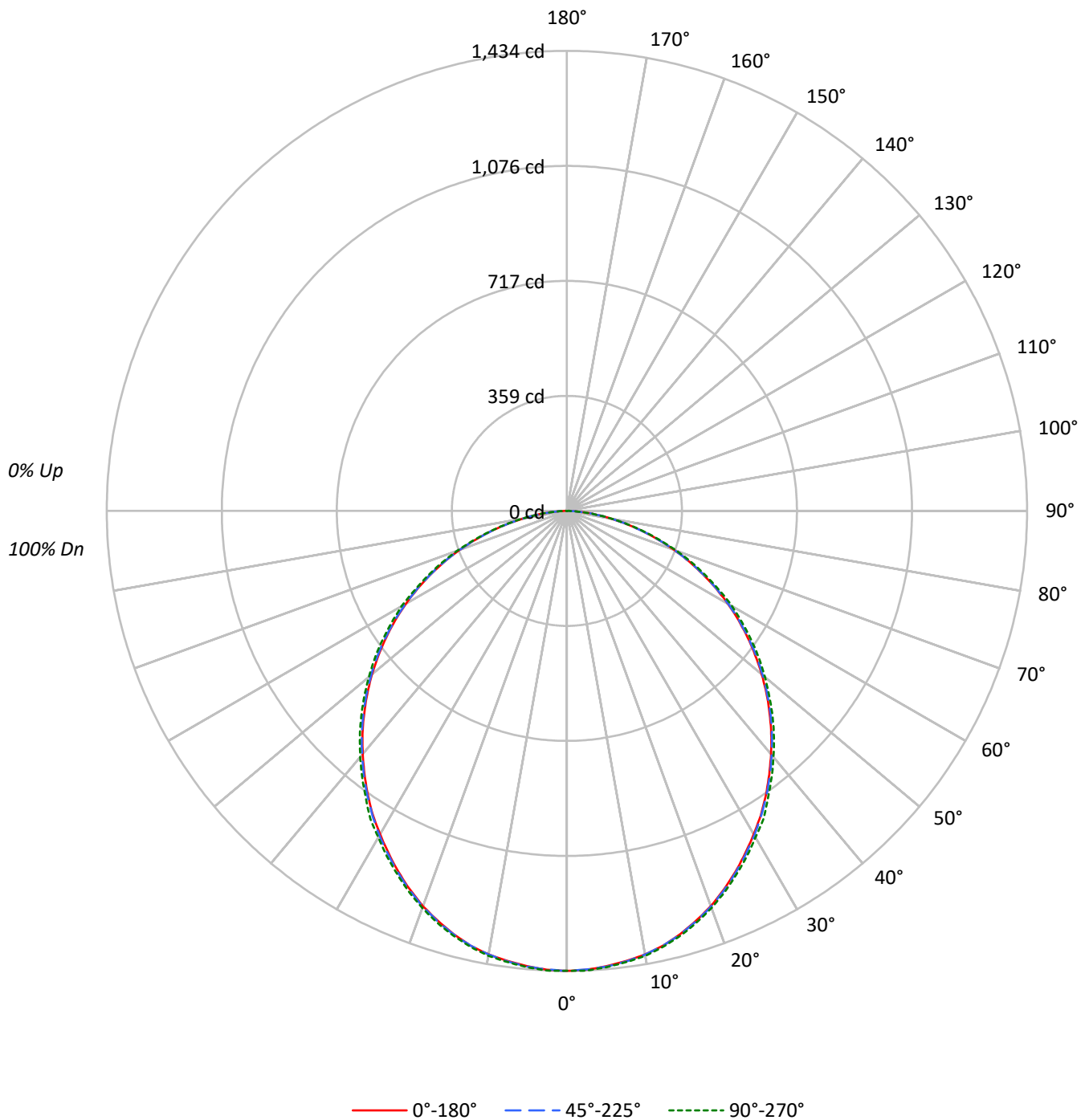
Lumens per Lamp: N/A
Luminaire Lumens: 3874.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): 120
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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3858	3858	3858
5°	3848	3851	3856
10°	3836	3836	3848
15°	3804	3806	3817
20°	3755	3759	3772
25°	3687	3695	3712
30°	3617	3629	3652
35°	3551	3560	3588
40°	3476	3488	3519
45°	3400	3415	3450
50°	3318	3333	3371
55°	3224	3239	3292
60°	3117	3130	3200
65°	2981	2990	3047
70°	2798	2800	2861
75°	2543	2534	2592
80°	2185	2176	2213
85°	1695	1667	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.5
10°-20°	385.4	9.9
20°-30°	573.7	14.8
30°-40°	678.5	17.5
40°-50°	692.6	17.9
50°-60°	618.1	16.0
60°-70°	465.6	12.0
70°-80°	259.6	6.7
80°-90°	65.0	1.7
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°	1094.6	28.3
0°-40°	1773.0	45.8
0°-60°	3083.8	79.6
0°-90°	3874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1424	1427	1426	1426	1428	135
15°	1365	1367	1366	1368	1370	385
25°	1242	1243	1245	1248	1250	572
35°	1081	1080	1084	1088	1092	676
45°	894	893	897	902	906	689
55°	687	686	690	695	702	614
65°	468	466	470	474	478	463
75°	245	242	244	245	249	259
85°	55	53	54	53	54	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.7	1433.7	1433.7	1433.7	1433.7
2.5°	1431.3	1433.7	1430.7	1431.3	1434.0
5°	1424.5	1427.2	1425.7	1426.0	1427.5
7.5°	1415.0	1418.6	1416.5	1417.1	1418.6
10°	1403.7	1406.4	1404.0	1405.5	1408.2
12.5°	1387.7	1388.9	1387.7	1388.3	1391.3
15°	1365.4	1366.9	1366.3	1367.5	1370.2
17.5°	1339.3	1341.1	1340.8	1343.2	1345.3
20°	1311.1	1311.4	1312.6	1315.0	1317.3
22.5°	1277.9	1278.8	1279.9	1283.2	1285.6
25°	1241.7	1243.1	1244.6	1247.9	1250.3
27.5°	1203.4	1204.8	1206.9	1210.5	1214.3
30°	1164.2	1164.2	1168.0	1171.6	1175.2
32.5°	1124.7	1123.2	1126.8	1131.2	1139.8
35°	1081.1	1079.9	1083.7	1087.9	1092.3
37.5°	1035.7	1034.8	1039.2	1043.7	1047.8
40°	989.6	988.5	992.9	997.4	1001.8
42.5°	942.4	941.9	946.0	950.5	955.2
45°	893.5	893.2	897.3	901.8	906.5
47.5°	843.6	843.0	847.2	851.9	856.1
50°	792.5	792.0	796.1	800.9	805.3
52.5°	740.0	740.0	743.9	748.0	754.8
55°	687.2	686.3	690.4	695.2	701.7
57.5°	633.7	632.6	636.4	641.2	647.1
60°	579.1	577.9	581.5	586.2	594.6
62.5°	523.9	522.1	525.7	530.1	535.2
65°	468.1	466.3	469.6	473.7	478.5
67.5°	412.0	409.9	413.2	416.8	421.2
70°	355.6	353.5	355.9	359.5	363.6
72.5°	299.5	297.4	299.5	301.0	306.0
75°	244.6	242.5	243.7	244.9	249.3
77.5°	191.2	189.1	191.5	192.1	194.7
80°	141.0	138.9	140.4	140.7	142.8
82.5°	95.3	93.5	95.6	94.1	95.9
85°	54.9	53.4	54.0	53.4	54.3
87.5°	21.7	20.5	20.8	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)