

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: P835655

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835655
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-LD4-6STD-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

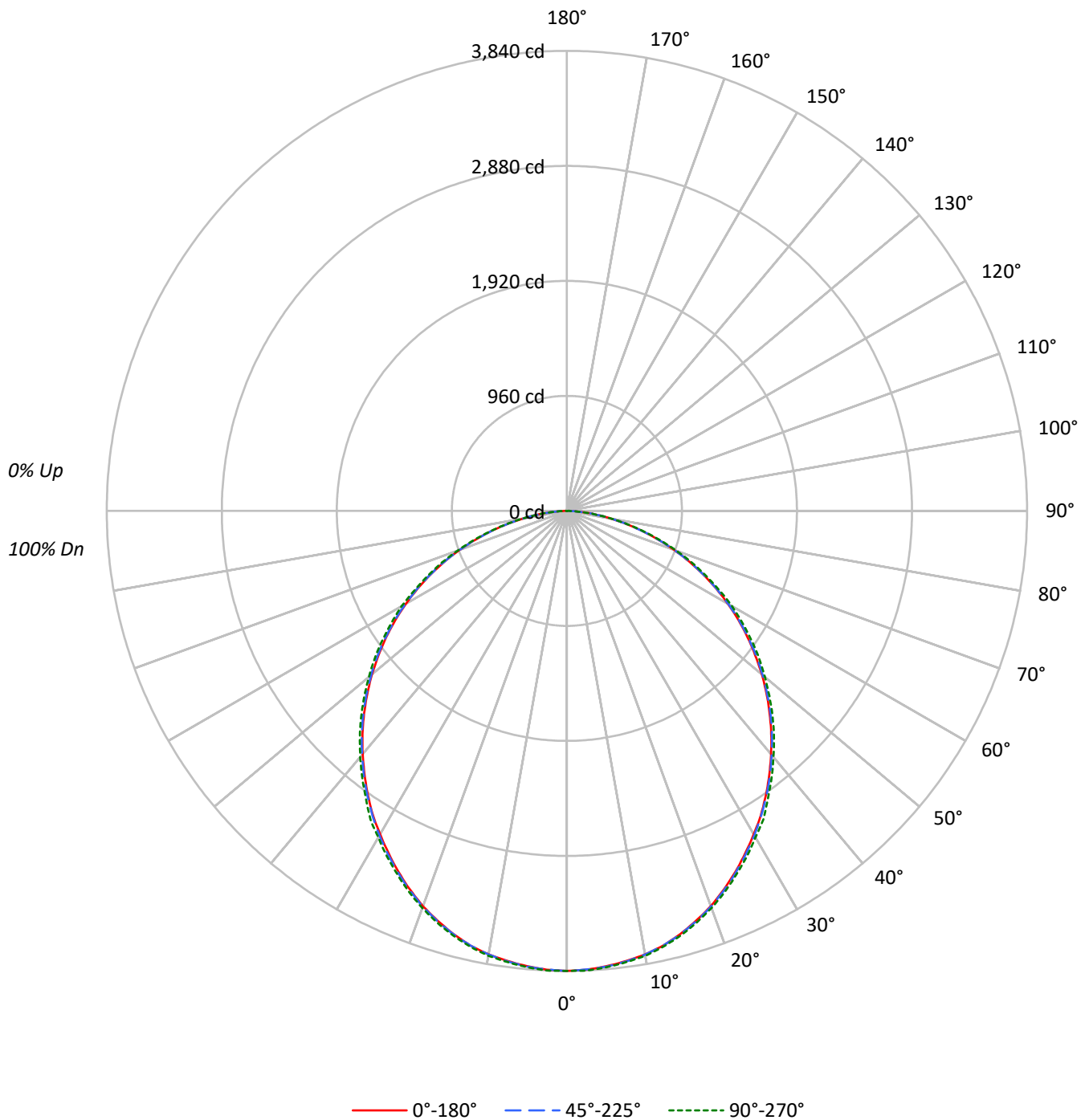
Lumens per Lamp: N/A
Luminaire Lumens: 10375.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	10332	10332	10332
5°	10305	10314	10327
10°	10272	10274	10305
15°	10187	10194	10223
20°	10055	10066	10103
25°	9873	9897	9942
30°	9688	9720	9779
35°	9511	9534	9610
40°	9310	9341	9425
45°	9106	9145	9239
50°	8886	8925	9029
55°	8634	8675	8816
60°	8347	8381	8570
65°	7982	8008	8159
70°	7493	7499	7662
75°	6810	6785	6943
80°	5852	5827	5926
85°	4542	4468	4492

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.8	3.5
10°-20°	1032.1	9.9
20°-30°	1536.4	14.8
30°-40°	1817.0	17.5
40°-50°	1854.9	17.9
50°-60°	1655.4	16.0
60°-70°	1246.8	12.0
70°-80°	695.3	6.7
80°-90°	174.2	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°	2931.3	28.3
0°-40°	4748.3	45.8
0°-60°	8258.6	79.6
0°-90°	10375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3840	3840	3840	3840	3840	
5°	3815	3822	3818	3819	3823	362
15°	3657	3661	3659	3662	3670	1031
25°	3325	3329	3333	3342	3348	1532
35°	2895	2892	2902	2914	2925	1810
45°	2393	2392	2403	2415	2428	1846
55°	1840	1838	1849	1862	1879	1645
65°	1254	1249	1258	1269	1281	1240
75°	655	650	653	656	668	694
85°	147	143	145	143	146	177
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3839.6	3839.6	3839.6	3839.6	3839.6
2.5°	3833.2	3839.6	3831.6	3833.2	3840.4
5°	3814.9	3822.1	3818.1	3818.9	3822.9
7.5°	3789.5	3799.0	3793.5	3795.1	3799.0
10°	3759.3	3766.4	3760.1	3764.1	3771.2
12.5°	3716.4	3719.5	3716.4	3717.9	3725.9
15°	3656.7	3660.7	3659.1	3662.3	3669.5
17.5°	3586.8	3591.6	3590.8	3597.1	3602.7
20°	3511.3	3512.1	3515.2	3521.6	3528.0
22.5°	3422.2	3424.6	3427.8	3436.5	3442.9
25°	3325.2	3329.2	3333.2	3341.9	3348.3
27.5°	3222.7	3226.7	3232.2	3241.8	3252.1
30°	3117.8	3117.8	3128.1	3137.6	3147.2
32.5°	3012.0	3008.1	3017.6	3029.5	3052.6
35°	2895.2	2892.0	2902.3	2913.5	2925.4
37.5°	2773.6	2771.2	2783.1	2795.0	2806.1
40°	2650.3	2647.2	2659.1	2671.0	2682.9
42.5°	2523.9	2522.4	2533.5	2545.4	2558.1
45°	2392.8	2392.0	2403.1	2415.0	2427.8
47.5°	2259.2	2257.6	2268.8	2281.5	2292.6
50°	2122.5	2120.9	2132.0	2144.8	2156.7
52.5°	1981.8	1981.8	1992.1	2003.3	2021.5
55°	1840.3	1837.9	1849.0	1861.8	1879.2
57.5°	1697.2	1694.0	1704.4	1717.1	1733.0
60°	1550.9	1547.8	1557.3	1570.0	1592.3
62.5°	1403.1	1398.3	1407.8	1419.8	1433.3
65°	1253.6	1248.9	1257.6	1268.7	1281.4
67.5°	1103.4	1097.8	1106.6	1116.1	1128.0
70°	952.3	946.8	953.1	962.7	973.8
72.5°	802.1	796.5	802.1	806.1	819.6
75°	655.0	649.5	652.6	655.8	667.8
77.5°	511.9	506.4	512.7	514.3	521.5
80°	377.6	372.0	376.0	376.8	382.4
82.5°	255.2	250.4	256.0	252.0	256.8
85°	147.1	143.1	144.7	143.1	145.5
87.5°	58.0	54.9	55.6	52.5	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)