

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: P834945

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3HI-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

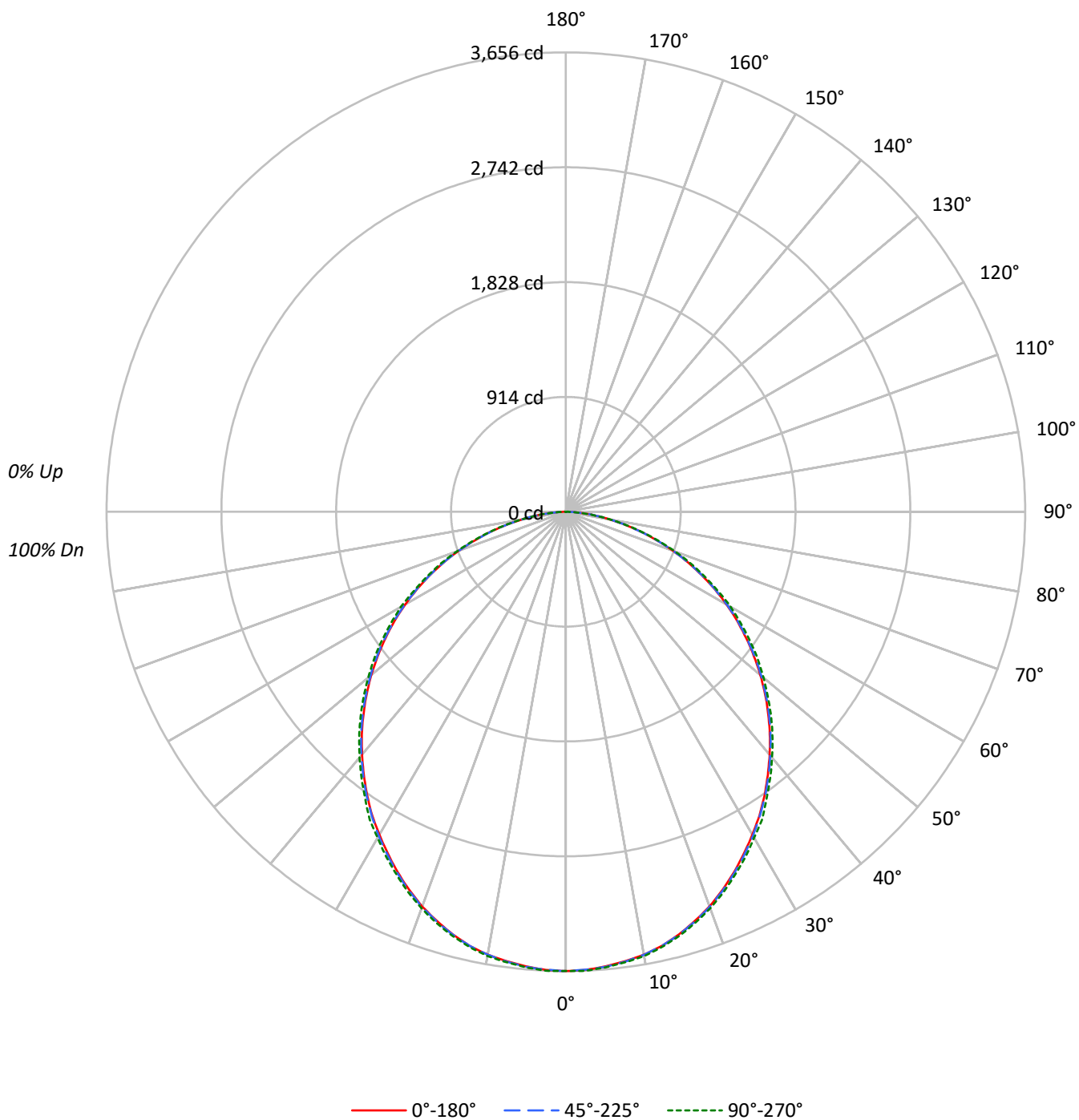
Lumens per Lamp: N/A
Luminaire Lumens: 9876.9 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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

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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°	4918	4918	4918
5°	4905	4909	4915
10°	4890	4891	4905
15°	4849	4852	4866
20°	4786	4792	4809
25°	4700	4711	4732
30°	4611	4627	4655
35°	4527	4538	4574
40°	4432	4446	4486
45°	4334	4353	4398
50°	4230	4249	4298
55°	4110	4129	4197
60°	3973	3989	4079
65°	3799	3812	3884
70°	3567	3570	3647
75°	3242	3230	3305
80°	2786	2774	2820
85°	2161	2126	2138

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	3.5
10°-20°	982.5	9.9
20°-30°	1462.7	14.8
30°-40°	1729.8	17.5
40°-50°	1765.8	17.9
50°-60°	1575.9	16.0
60°-70°	1187.0	12.0
70°-80°	661.9	6.7
80°-90°	165.8	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°	2790.6	28.3
0°-40°	4520.4	45.8
0°-60°	7862.1	79.6
0°-90°	9876.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9876.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3655	3655	3655	3655	3655	
5°	3632	3639	3635	3636	3639	345
15°	3481	3485	3484	3486	3493	981
25°	3166	3169	3173	3182	3188	1458
35°	2756	2753	2763	2774	2785	1724
45°	2278	2277	2288	2299	2311	1757
55°	1752	1750	1760	1772	1789	1566
65°	1193	1189	1197	1208	1220	1180
75°	624	618	621	624	636	661
85°	140	136	138	136	138	168
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3655.2	3655.2	3655.2	3655.2	3655.2
2.5°	3649.2	3655.2	3647.7	3649.2	3656.0
5°	3631.8	3638.6	3634.8	3635.6	3639.4
7.5°	3607.6	3616.6	3611.4	3612.9	3616.6
10°	3578.8	3585.6	3579.6	3583.3	3590.2
12.5°	3537.9	3541.0	3537.9	3539.5	3547.0
15°	3481.2	3485.0	3483.5	3486.5	3493.3
17.5°	3414.6	3419.1	3418.4	3424.4	3429.7
20°	3342.7	3343.5	3346.5	3352.5	3358.6
22.5°	3257.9	3260.2	3263.2	3271.6	3277.6
25°	3165.6	3169.4	3173.2	3181.5	3187.6
27.5°	3068.0	3071.8	3077.1	3086.1	3096.0
30°	2968.1	2968.1	2977.9	2987.0	2996.1
32.5°	2867.4	2863.7	2872.7	2884.1	2906.0
35°	2756.2	2753.2	2763.0	2773.6	2784.9
37.5°	2640.4	2638.1	2649.5	2660.8	2671.4
40°	2523.1	2520.1	2531.4	2542.8	2554.1
42.5°	2402.8	2401.3	2411.9	2423.2	2435.3
45°	2277.9	2277.1	2287.7	2299.1	2311.2
47.5°	2150.8	2149.3	2159.8	2172.0	2182.6
50°	2020.6	2019.1	2029.7	2041.8	2053.1
52.5°	1886.7	1886.7	1896.5	1907.1	1924.5
55°	1751.9	1749.7	1760.3	1772.4	1789.0
57.5°	1615.7	1612.7	1622.5	1634.6	1649.8
60°	1476.5	1473.4	1482.5	1494.6	1515.8
62.5°	1335.7	1331.2	1340.3	1351.6	1364.5
65°	1193.4	1188.9	1197.2	1207.8	1219.9
67.5°	1050.4	1045.1	1053.4	1062.5	1073.9
70°	906.6	901.3	907.4	916.5	927.1
72.5°	763.6	758.3	763.6	767.4	780.2
75°	623.6	618.3	621.3	624.3	635.7
77.5°	487.4	482.1	488.1	489.6	496.4
80°	359.5	354.2	358.0	358.7	364.0
82.5°	242.9	238.4	243.7	239.9	244.4
85°	140.0	136.2	137.7	136.2	138.5
87.5°	55.2	52.2	53.0	49.9	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)