

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: P835668

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835668
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-LD4-4HI-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

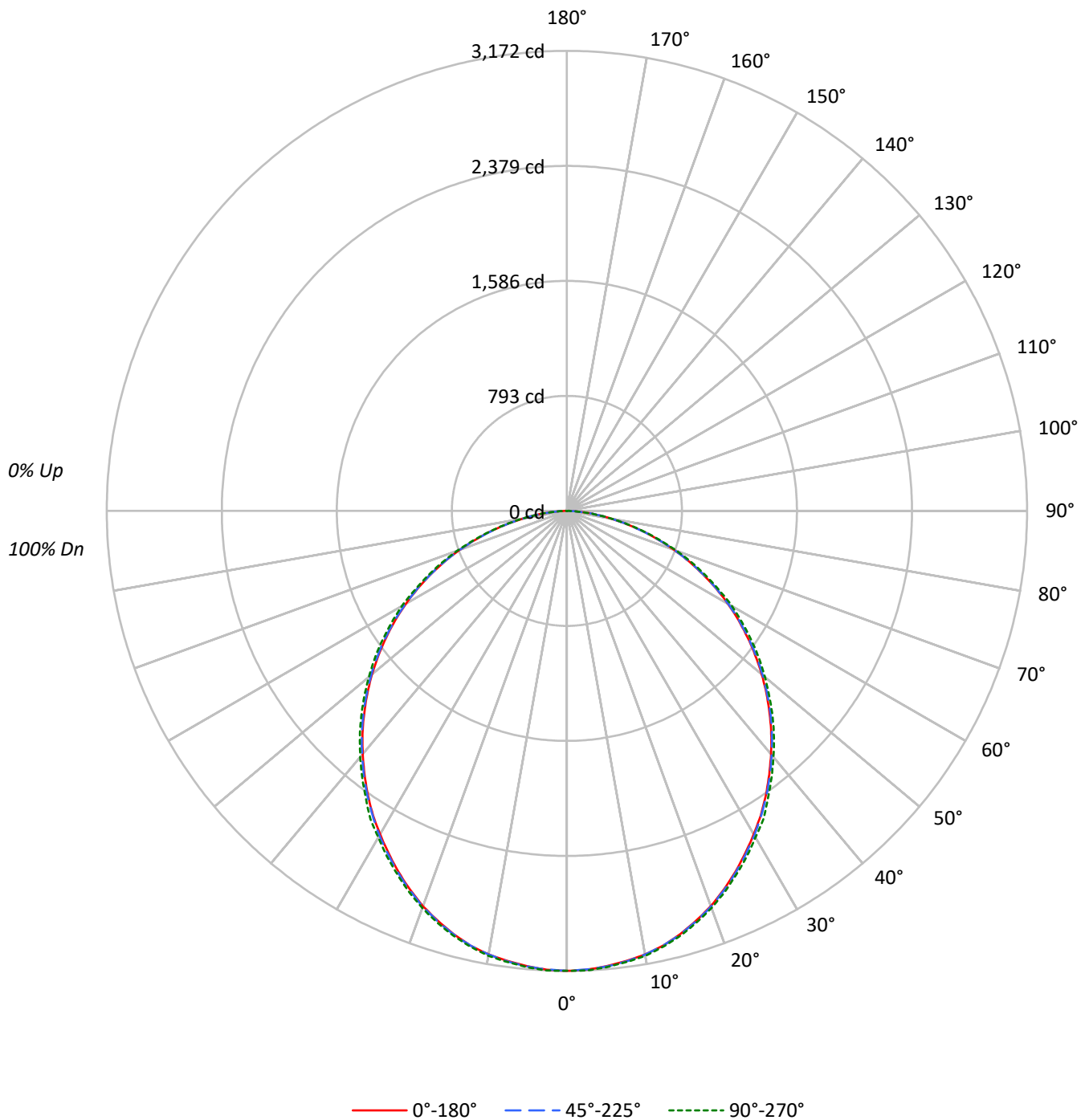
Lumens per Lamp: N/A
Luminaire Lumens: 8569.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	8534	8534	8534
5°	8511	8518	8529
10°	8484	8486	8511
15°	8414	8420	8443
20°	8305	8314	8344
25°	8155	8174	8211
30°	8002	8028	8077
35°	7855	7875	7937
40°	7690	7715	7784
45°	7521	7553	7631
50°	7339	7372	7457
55°	7131	7165	7282
60°	6894	6922	7078
65°	6593	6614	6739
70°	6189	6194	6328
75°	5625	5604	5734
80°	4833	4813	4894
85°	3751	3690	3711

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	3.5
10°-20°	852.4	9.9
20°-30°	1269.0	14.8
30°-40°	1500.7	17.5
40°-50°	1532.0	17.9
50°-60°	1367.2	16.0
60°-70°	1029.8	12.0
70°-80°	574.3	6.7
80°-90°	143.9	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°	2421.1	28.3
0°-40°	3921.8	45.8
0°-60°	6821.1	79.6
0°-90°	8569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3171	3171	3171	3171	3171	
5°	3151	3157	3154	3154	3158	299
15°	3020	3024	3022	3025	3031	851
25°	2746	2750	2753	2760	2766	1265
35°	2391	2389	2397	2406	2416	1495
45°	1976	1976	1985	1995	2005	1525
55°	1520	1518	1527	1538	1552	1359
65°	1035	1032	1039	1048	1058	1024
75°	541	536	539	542	552	574
85°	122	118	120	118	120	146
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3171.2	3171.2	3171.2	3171.2	3171.2
2.5°	3166.0	3171.2	3164.7	3166.0	3171.9
5°	3150.9	3156.8	3153.5	3154.2	3157.5
7.5°	3129.9	3137.8	3133.2	3134.5	3137.8
10°	3104.9	3110.8	3105.6	3108.9	3114.8
12.5°	3069.5	3072.1	3069.5	3070.8	3077.4
15°	3020.2	3023.5	3022.2	3024.8	3030.7
17.5°	2962.5	2966.4	2965.7	2971.0	2975.6
20°	2900.1	2900.7	2903.4	2908.6	2913.9
22.5°	2826.5	2828.5	2831.1	2838.4	2843.6
25°	2746.4	2749.7	2753.0	2760.2	2765.5
27.5°	2661.7	2665.0	2669.6	2677.5	2686.0
30°	2575.1	2575.1	2583.6	2591.5	2599.4
32.5°	2487.8	2484.5	2492.3	2502.2	2521.2
35°	2391.2	2388.6	2397.1	2406.3	2416.2
37.5°	2290.8	2288.8	2298.7	2308.5	2317.7
40°	2189.0	2186.4	2196.2	2206.1	2215.9
42.5°	2084.6	2083.3	2092.5	2102.3	2112.9
45°	1976.3	1975.6	1984.8	1994.7	2005.2
47.5°	1866.0	1864.7	1873.9	1884.4	1893.6
50°	1753.0	1751.7	1760.9	1771.4	1781.3
52.5°	1636.8	1636.8	1645.4	1654.6	1669.7
55°	1520.0	1518.0	1527.2	1537.7	1552.1
57.5°	1401.8	1399.2	1407.7	1418.2	1431.3
60°	1281.0	1278.3	1286.2	1296.7	1315.1
62.5°	1158.9	1154.9	1162.8	1172.6	1183.8
65°	1035.4	1031.5	1038.7	1047.9	1058.4
67.5°	911.3	906.7	913.9	921.8	931.7
70°	786.6	782.0	787.2	795.1	804.3
72.5°	662.5	657.9	662.5	665.8	676.9
75°	541.0	536.4	539.0	541.7	551.5
77.5°	422.8	418.2	423.5	424.8	430.7
80°	311.9	307.3	310.6	311.2	315.8
82.5°	210.8	206.8	211.4	208.1	212.1
85°	121.5	118.2	119.5	118.2	120.2
87.5°	47.9	45.3	46.0	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)