

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: P835779

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835779
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-LD4-5HI-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

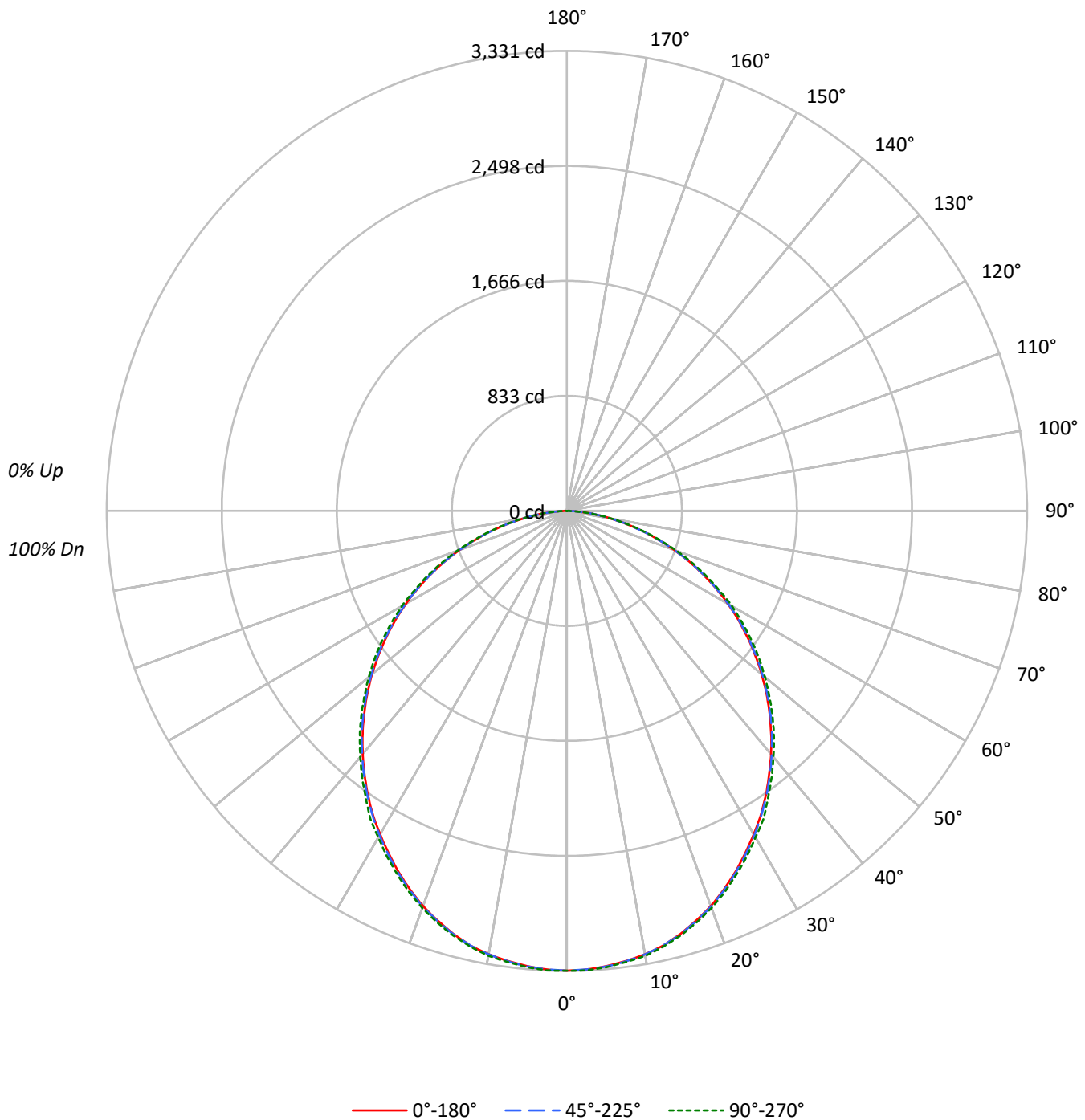
Lumens per Lamp: N/A
Luminaire Lumens: 8997.9 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8961	8961	8961
5°	8937	8945	8956
10°	8909	8911	8937
15°	8835	8841	8866
20°	8720	8730	8762
25°	8563	8583	8622
30°	8402	8430	8481
35°	8249	8269	8335
40°	8075	8101	8174
45°	7897	7931	8013
50°	7706	7741	7830
55°	7488	7523	7646
60°	7239	7269	7432
65°	6923	6945	7077
70°	6498	6504	6644
75°	5907	5885	6021
80°	5075	5053	5139
85°	3937	3875	3896

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	3.5
10°-20°	895.1	9.9
20°-30°	1332.5	14.8
30°-40°	1575.8	17.5
40°-50°	1608.7	17.9
50°-60°	1435.7	16.0
60°-70°	1081.3	12.0
70°-80°	603.0	6.7
80°-90°	151.1	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°	2542.3	28.3
0°-40°	4118.1	45.8
0°-60°	7162.4	79.6
0°-90°	8997.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8997.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3330	3330	3330	3330	3330	
5°	3309	3315	3311	3312	3316	314
15°	3171	3175	3173	3176	3182	894
25°	2884	2887	2891	2898	2904	1329
35°	2511	2508	2517	2527	2537	1570
45°	2075	2074	2084	2094	2106	1601
55°	1596	1594	1604	1615	1630	1427
65°	1087	1083	1091	1100	1111	1075
75°	568	563	566	569	579	602
85°	128	124	126	124	126	153
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3329.9	3329.9	3329.9	3329.9	3329.9
2.5°	3324.4	3329.9	3323.0	3324.4	3330.6
5°	3308.6	3314.8	3311.3	3312.0	3315.5
7.5°	3286.5	3294.8	3289.9	3291.3	3294.8
10°	3260.3	3266.5	3261.0	3264.4	3270.6
12.5°	3223.1	3225.8	3223.1	3224.5	3231.3
15°	3171.4	3174.8	3173.4	3176.2	3182.4
17.5°	3110.7	3114.8	3114.1	3119.7	3124.5
20°	3045.2	3045.9	3048.6	3054.2	3059.7
22.5°	2968.0	2970.1	2972.8	2980.4	2985.9
25°	2883.9	2887.3	2890.8	2898.4	2903.9
27.5°	2794.9	2798.4	2803.2	2811.5	2820.4
30°	2703.9	2703.9	2712.9	2721.2	2729.4
32.5°	2612.2	2608.8	2617.1	2627.4	2647.4
35°	2510.9	2508.1	2517.1	2526.8	2537.1
37.5°	2405.4	2403.3	2413.7	2424.0	2433.7
40°	2298.6	2295.8	2306.1	2316.5	2326.8
42.5°	2188.9	2187.6	2197.2	2207.5	2218.6
45°	2075.2	2074.5	2084.1	2094.5	2105.5
47.5°	1959.4	1958.0	1967.6	1978.7	1988.3
50°	1840.8	1839.4	1849.0	1860.1	1870.4
52.5°	1718.7	1718.7	1727.7	1737.4	1753.2
55°	1596.0	1594.0	1603.6	1614.6	1629.8
57.5°	1471.9	1469.2	1478.1	1489.2	1503.0
60°	1345.1	1342.3	1350.6	1361.6	1380.9
62.5°	1216.8	1212.7	1221.0	1231.3	1243.0
65°	1087.2	1083.1	1090.7	1100.3	1111.4
67.5°	956.9	952.1	959.7	968.0	978.3
70°	825.9	821.1	826.6	834.9	844.5
72.5°	695.6	690.8	695.6	699.1	710.8
75°	568.1	563.3	566.0	568.8	579.1
77.5°	444.0	439.2	444.7	446.1	452.3
80°	327.5	322.7	326.1	326.8	331.6
82.5°	221.3	217.2	222.0	218.5	222.7
85°	127.5	124.1	125.5	124.1	126.2
87.5°	50.3	47.6	48.3	45.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)