

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: P834438

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834438
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

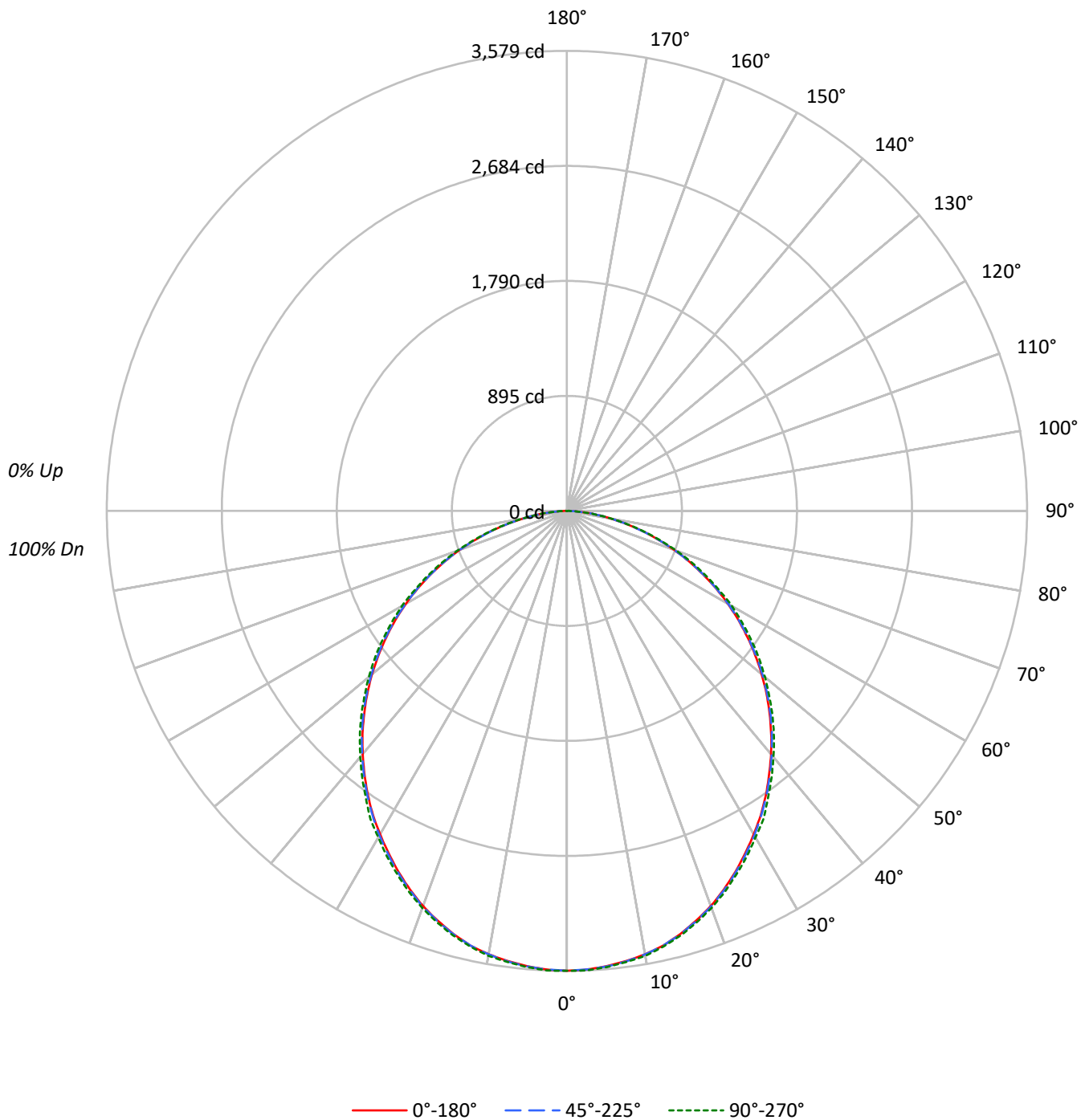
Lumens per Lamp: N/A
Luminaire Lumens: 9667.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9628	9628	9628
5°	9603	9611	9623
10°	9572	9574	9603
15°	9493	9499	9526
20°	9370	9380	9414
25°	9200	9222	9264
30°	9028	9057	9113
35°	8862	8884	8955
40°	8676	8704	8782
45°	8485	8522	8609
50°	8280	8317	8413
55°	8046	8084	8216
60°	7778	7810	7985
65°	7438	7462	7603
70°	6982	6988	7139
75°	6346	6324	6469
80°	5453	5430	5521
85°	4230	4162	4187

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	3.5
10°-20°	961.7	9.9
20°-30°	1431.7	14.8
30°-40°	1693.1	17.5
40°-50°	1728.5	17.9
50°-60°	1542.6	16.0
60°-70°	1161.8	12.0
70°-80°	647.9	6.7
80°-90°	162.3	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°	2731.5	28.3
0°-40°	4424.7	45.8
0°-60°	7695.7	79.6
0°-90°	9667.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9667.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3578	3578	3578	3578	3578	
5°	3555	3562	3558	3559	3562	338
15°	3408	3411	3410	3413	3419	960
25°	3099	3102	3106	3114	3120	1427
35°	2698	2695	2704	2715	2726	1687
45°	2230	2229	2239	2250	2262	1720
55°	1715	1713	1723	1735	1751	1533
65°	1168	1164	1172	1182	1194	1155
75°	610	605	608	611	622	647
85°	137	133	135	133	136	165
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3577.9	3577.9	3577.9	3577.9	3577.9
2.5°	3571.9	3577.9	3570.5	3571.9	3578.6
5°	3554.9	3561.6	3557.9	3558.6	3562.3
7.5°	3531.2	3540.1	3534.9	3536.4	3540.1
10°	3503.1	3509.7	3503.8	3507.5	3514.2
12.5°	3463.1	3466.0	3463.1	3464.5	3471.9
15°	3407.5	3411.2	3409.7	3412.7	3419.3
17.5°	3342.3	3346.8	3346.0	3351.9	3357.1
20°	3271.9	3272.7	3275.6	3281.6	3287.5
22.5°	3189.0	3191.2	3194.2	3202.3	3208.2
25°	3098.6	3102.3	3106.0	3114.2	3120.1
27.5°	3003.0	3006.7	3011.9	3020.8	3030.4
30°	2905.3	2905.3	2914.9	2923.8	2932.7
32.5°	2806.7	2803.0	2811.9	2823.0	2844.5
35°	2697.8	2694.9	2704.5	2714.9	2726.0
37.5°	2584.5	2582.3	2593.4	2604.5	2614.9
40°	2469.7	2466.7	2477.8	2489.0	2500.1
42.5°	2351.9	2350.4	2360.8	2371.9	2383.8
45°	2229.7	2228.9	2239.3	2250.4	2262.3
47.5°	2105.2	2103.8	2114.1	2126.0	2136.4
50°	1977.8	1976.3	1986.7	1998.6	2009.7
52.5°	1846.7	1846.7	1856.3	1866.7	1883.8
55°	1714.9	1712.6	1723.0	1734.9	1751.2
57.5°	1581.5	1578.6	1588.2	1600.0	1614.9
60°	1445.2	1442.3	1451.1	1463.0	1483.7
62.5°	1307.4	1303.0	1311.9	1323.0	1335.6
65°	1168.2	1163.7	1171.9	1182.3	1194.1
67.5°	1028.2	1023.0	1031.1	1040.0	1051.1
70°	887.4	882.2	888.2	897.1	907.4
72.5°	747.4	742.2	747.4	751.1	763.7
75°	610.4	605.2	608.2	611.1	622.2
77.5°	477.0	471.9	477.8	479.3	485.9
80°	351.9	346.7	350.4	351.1	356.3
82.5°	237.8	233.3	238.5	234.8	239.3
85°	137.0	133.3	134.8	133.3	135.6
87.5°	54.1	51.1	51.9	48.9	48.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)