

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: P835103

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835103
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-LD4-2STD-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

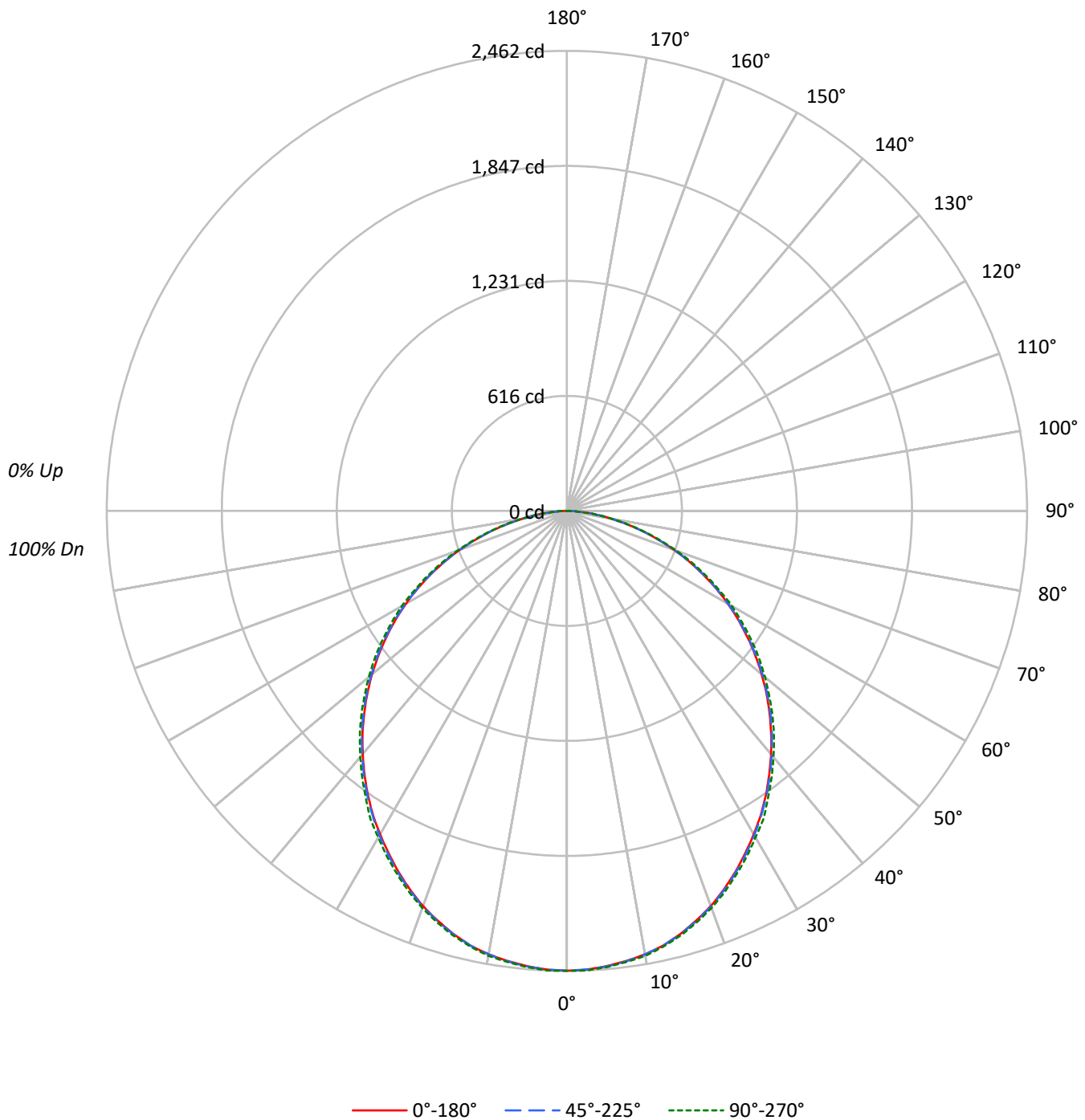
Lumens per Lamp: N/A
Luminaire Lumens: 6650.4 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	3312	3312	3312
5°	3303	3306	3310
10°	3292	3293	3303
15°	3265	3267	3277
20°	3223	3226	3238
25°	3164	3172	3186
30°	3105	3115	3134
35°	3048	3056	3080
40°	2984	2994	3021
45°	2919	2931	2961
50°	2848	2861	2894
55°	2767	2780	2826
60°	2675	2686	2747
65°	2558	2566	2615
70°	2402	2404	2456
75°	2183	2175	2225
80°	1875	1867	1899
85°	1456	1431	1440

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	3.5
10°-20°	661.6	9.9
20°-30°	984.9	14.8
30°-40°	1164.7	17.5
40°-50°	1189.0	17.9
50°-60°	1061.1	16.0
60°-70°	799.2	12.0
70°-80°	445.7	6.7
80°-90°	111.7	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°	1879.0	28.3
0°-40°	3043.7	45.8
0°-60°	5293.8	79.6
0°-90°	6650.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6650.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2445	2450	2447	2448	2450	232
15°	2344	2346	2346	2348	2352	661
25°	2132	2134	2137	2142	2146	982
35°	1856	1854	1860	1868	1875	1161
45°	1534	1533	1540	1548	1556	1183
55°	1180	1178	1185	1193	1205	1054
65°	804	800	806	813	821	795
75°	420	416	418	420	428	445
85°	94	92	93	92	93	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.2	2461.2	2461.2	2461.2	2461.2
2.5°	2457.1	2461.2	2456.1	2457.1	2461.7
5°	2445.4	2450.0	2447.4	2448.0	2450.5
7.5°	2429.1	2435.2	2431.6	2432.7	2435.2
10°	2409.7	2414.3	2410.2	2412.8	2417.4
12.5°	2382.2	2384.3	2382.2	2383.2	2388.3
15°	2344.0	2346.5	2345.5	2347.6	2352.2
17.5°	2299.2	2302.2	2301.7	2305.8	2309.3
20°	2250.7	2251.3	2253.3	2257.4	2261.4
22.5°	2193.7	2195.2	2197.2	2202.8	2206.9
25°	2131.5	2134.1	2136.6	2142.2	2146.3
27.5°	2065.8	2068.3	2071.9	2078.0	2084.6
30°	1998.5	1998.5	2005.1	2011.3	2017.4
32.5°	1930.7	1928.2	1934.3	1942.0	1956.7
35°	1855.8	1853.8	1860.4	1867.6	1875.2
37.5°	1777.9	1776.3	1784.0	1791.6	1798.8
40°	1698.9	1696.9	1704.5	1712.1	1719.8
42.5°	1617.9	1616.8	1624.0	1631.6	1639.8
45°	1533.8	1533.3	1540.4	1548.1	1556.2
47.5°	1448.2	1447.2	1454.3	1462.5	1469.6
50°	1360.5	1359.5	1366.7	1374.8	1382.4
52.5°	1270.3	1270.3	1277.0	1284.1	1295.8
55°	1179.6	1178.1	1185.2	1193.4	1204.6
57.5°	1087.9	1085.9	1092.5	1100.7	1110.9
60°	994.2	992.1	998.2	1006.4	1020.7
62.5°	899.4	896.3	902.4	910.1	918.7
65°	803.6	800.5	806.1	813.3	821.4
67.5°	707.3	703.7	709.3	715.4	723.1
70°	610.5	606.9	611.0	617.1	624.2
72.5°	514.2	510.6	514.2	516.7	525.4
75°	419.9	416.3	418.4	420.4	428.0
77.5°	328.2	324.6	328.7	329.7	334.3
80°	242.0	238.5	241.0	241.5	245.1
82.5°	163.6	160.5	164.1	161.5	164.6
85°	94.3	91.7	92.7	91.7	93.3
87.5°	37.2	35.2	35.7	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)