

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: P835054

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4LO-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835054
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-LD4-4LO-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

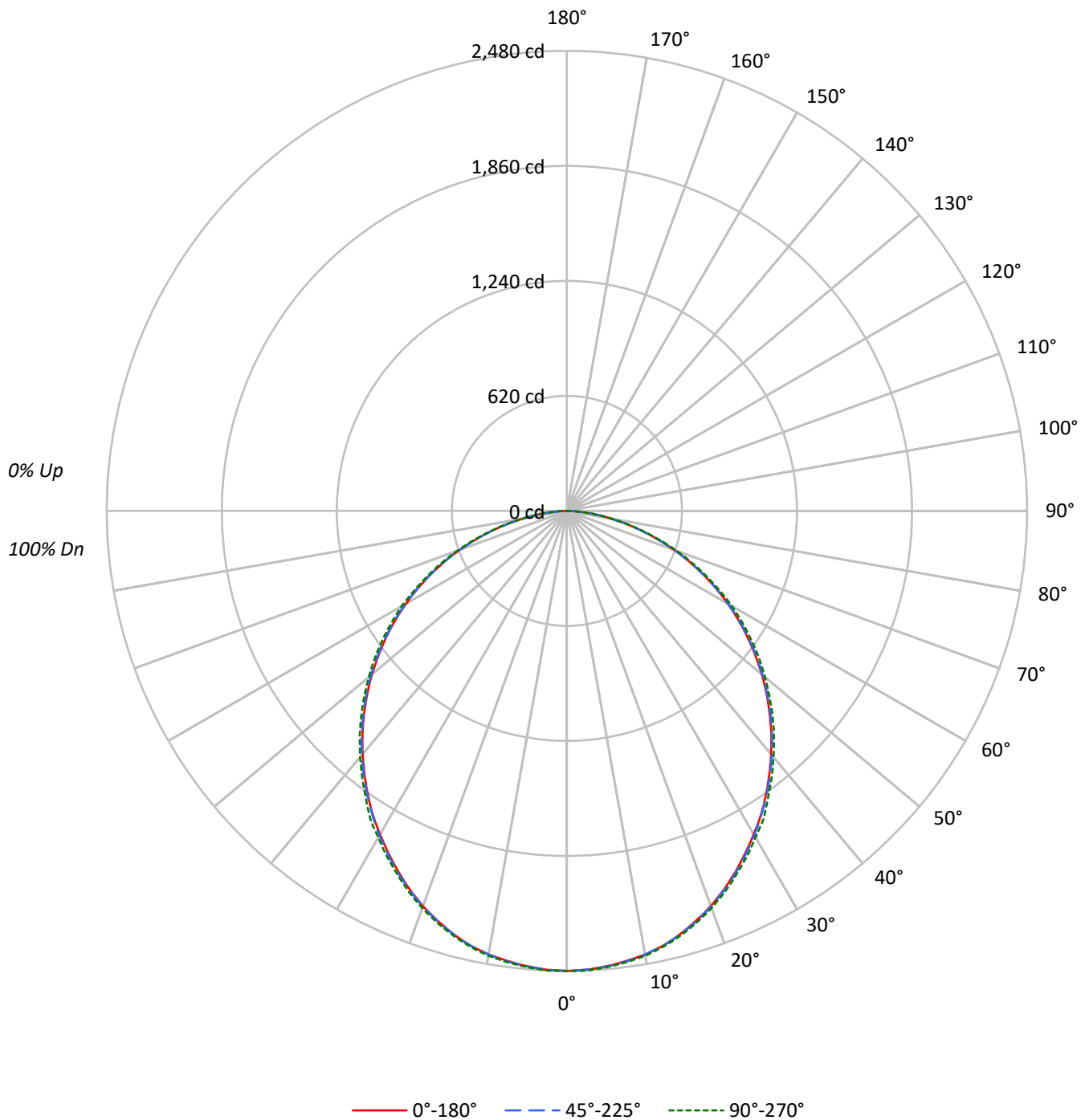
Lumens per Lamp: N/A
Luminaire Lumens: 6701.2 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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

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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°	3337	3337	3337
5°	3328	3331	3335
10°	3317	3318	3328
15°	3290	3292	3301
20°	3247	3251	3263
25°	3189	3196	3211
30°	3129	3139	3158
35°	3072	3079	3104
40°	3007	3017	3044
45°	2941	2954	2984
50°	2870	2883	2916
55°	2788	2802	2847
60°	2696	2707	2767
65°	2578	2586	2635
70°	2420	2422	2474
75°	2200	2191	2242
80°	1890	1882	1914
85°	1467	1442	1451

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	3.5
10°-20°	666.6	9.9
20°-30°	992.4	14.8
30°-40°	1173.6	17.5
40°-50°	1198.1	17.9
50°-60°	1069.2	16.0
60°-70°	805.3	12.0
70°-80°	449.1	6.7
80°-90°	112.5	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°	1893.3	28.3
0°-40°	3066.9	45.8
0°-60°	5334.2	79.6
0°-90°	6701.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6701.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2480	2480	2480	2480	2480	
5°	2464	2469	2466	2467	2469	234
15°	2362	2364	2363	2366	2370	666
25°	2148	2150	2153	2158	2163	989
35°	1870	1868	1875	1882	1890	1169
45°	1546	1545	1552	1560	1568	1192
55°	1189	1187	1194	1202	1214	1062
65°	810	807	812	820	828	801
75°	423	420	422	424	431	449
85°	95	92	93	92	94	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2480.0	2480.0	2480.0	2480.0	2480.0
2.5°	2475.9	2480.0	2474.8	2475.9	2480.5
5°	2464.0	2468.7	2466.1	2466.6	2469.2
7.5°	2447.6	2453.8	2450.2	2451.2	2453.8
10°	2428.1	2432.7	2428.6	2431.2	2435.8
12.5°	2400.4	2402.4	2400.4	2401.4	2406.5
15°	2361.9	2364.4	2363.4	2365.5	2370.1
17.5°	2316.7	2319.8	2319.3	2323.4	2327.0
20°	2267.9	2268.4	2270.5	2274.6	2278.7
22.5°	2210.4	2211.9	2214.0	2219.6	2223.8
25°	2147.8	2150.3	2152.9	2158.5	2162.7
27.5°	2081.5	2084.1	2087.7	2093.9	2100.5
30°	2013.8	2013.8	2020.4	2026.6	2032.8
32.5°	1945.5	1942.9	1949.1	1956.8	1971.7
35°	1870.0	1867.9	1874.6	1881.8	1889.5
37.5°	1791.4	1789.9	1797.6	1805.3	1812.5
40°	1711.8	1709.8	1717.5	1725.2	1732.9
42.5°	1630.2	1629.2	1636.4	1644.1	1652.3
45°	1545.5	1545.0	1552.2	1559.9	1568.1
47.5°	1459.2	1458.2	1465.4	1473.6	1480.8
50°	1370.9	1369.9	1377.1	1385.3	1393.0
52.5°	1280.0	1280.0	1286.7	1293.9	1305.7
55°	1188.6	1187.1	1194.3	1202.5	1213.8
57.5°	1096.2	1094.2	1100.8	1109.1	1119.3
60°	1001.7	999.7	1005.8	1014.1	1028.4
62.5°	906.2	903.2	909.3	917.0	925.8
65°	809.7	806.6	812.3	819.5	827.7
67.5°	712.7	709.1	714.7	720.9	728.6
70°	615.1	611.5	615.6	621.8	629.0
72.5°	518.1	514.5	518.1	520.6	529.4
75°	423.1	419.5	421.5	423.6	431.3
77.5°	330.7	327.1	331.2	332.2	336.8
80°	243.9	240.3	242.9	243.4	247.0
82.5°	164.8	161.7	165.3	162.8	165.8
85°	95.0	92.4	93.4	92.4	94.0
87.5°	37.5	35.4	35.9	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)