

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: P835069

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835069
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-LD4-3LO-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

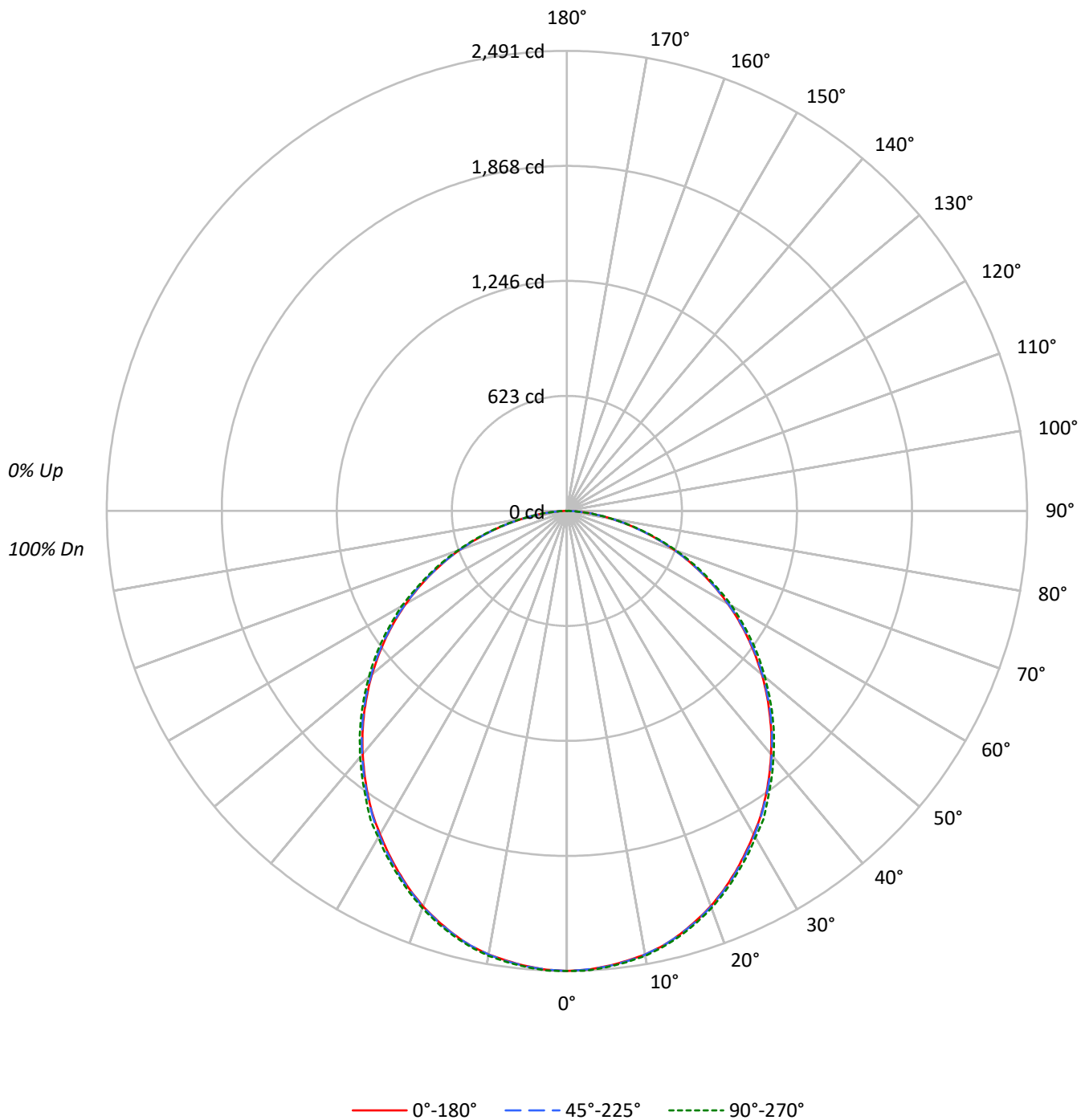
Lumens per Lamp: N/A
Luminaire Lumens: 6730.7 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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



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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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3351	3351	3351
5°	3343	3346	3350
10°	3332	3333	3343
15°	3305	3307	3316
20°	3262	3265	3277
25°	3203	3210	3225
30°	3142	3153	3172
35°	3085	3093	3117
40°	3020	3030	3057
45°	2954	2966	2997
50°	2882	2895	2929
55°	2801	2814	2860
60°	2708	2719	2780
65°	2589	2598	2647
70°	2430	2432	2485
75°	2209	2201	2252
80°	1898	1890	1922
85°	1473	1450	1457

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.5
10°-20°	669.6	9.9
20°-30°	996.8	14.8
30°-40°	1178.8	17.5
40°-50°	1203.3	17.9
50°-60°	1073.9	16.0
60°-70°	808.9	12.0
70°-80°	451.1	6.7
80°-90°	113.0	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°	1901.7	28.3
0°-40°	3080.5	45.8
0°-60°	5357.7	79.6
0°-90°	6730.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6730.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2491	2491	2491	2491	2491	
5°	2475	2480	2477	2478	2480	235
15°	2372	2375	2374	2376	2380	669
25°	2157	2160	2162	2168	2172	994
35°	1878	1876	1883	1890	1898	1175
45°	1552	1552	1559	1567	1575	1197
55°	1194	1192	1200	1208	1219	1067
65°	813	810	816	823	831	804
75°	425	421	423	426	433	450
85°	95	93	94	93	94	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2490.9	2490.9	2490.9	2490.9	2490.9
2.5°	2486.8	2490.9	2485.7	2486.8	2491.4
5°	2474.9	2479.6	2477.0	2477.5	2480.1
7.5°	2458.4	2464.6	2461.0	2462.0	2464.6
10°	2438.8	2443.5	2439.3	2441.9	2446.6
12.5°	2411.0	2413.0	2411.0	2412.0	2417.2
15°	2372.3	2374.9	2373.8	2375.9	2380.5
17.5°	2326.9	2330.0	2329.5	2333.6	2337.2
20°	2277.9	2278.4	2280.5	2284.6	2288.7
22.5°	2220.2	2221.7	2223.8	2229.4	2233.6
25°	2157.2	2159.8	2162.4	2168.1	2172.2
27.5°	2090.7	2093.3	2096.9	2103.1	2109.8
30°	2022.6	2022.6	2029.3	2035.5	2041.7
32.5°	1954.0	1951.5	1957.7	1965.4	1980.3
35°	1878.2	1876.2	1882.9	1890.1	1897.8
37.5°	1799.3	1797.8	1805.5	1813.3	1820.5
40°	1719.4	1717.3	1725.1	1732.8	1740.5
42.5°	1637.4	1636.4	1643.6	1651.3	1659.6
45°	1552.3	1551.8	1559.0	1566.7	1575.0
47.5°	1465.7	1464.6	1471.9	1480.1	1487.3
50°	1377.0	1375.9	1383.1	1391.4	1399.1
52.5°	1285.7	1285.7	1292.4	1299.6	1311.5
55°	1193.9	1192.3	1199.6	1207.8	1219.2
57.5°	1101.1	1099.0	1105.7	1113.9	1124.3
60°	1006.2	1004.1	1010.3	1018.5	1033.0
62.5°	910.2	907.1	913.3	921.1	929.8
65°	813.3	810.2	815.9	823.1	831.3
67.5°	715.8	712.2	717.9	724.1	731.8
70°	617.8	614.2	618.3	624.5	631.8
72.5°	520.4	516.7	520.4	522.9	531.7
75°	424.9	421.3	423.4	425.5	433.2
77.5°	332.1	328.5	332.6	333.7	338.3
80°	245.0	241.4	243.9	244.4	248.1
82.5°	165.5	162.5	166.1	163.5	166.6
85°	95.4	92.8	93.9	92.8	94.4
87.5°	37.6	35.6	36.1	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)