

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: P834942

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834942
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-LD4-2HI-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

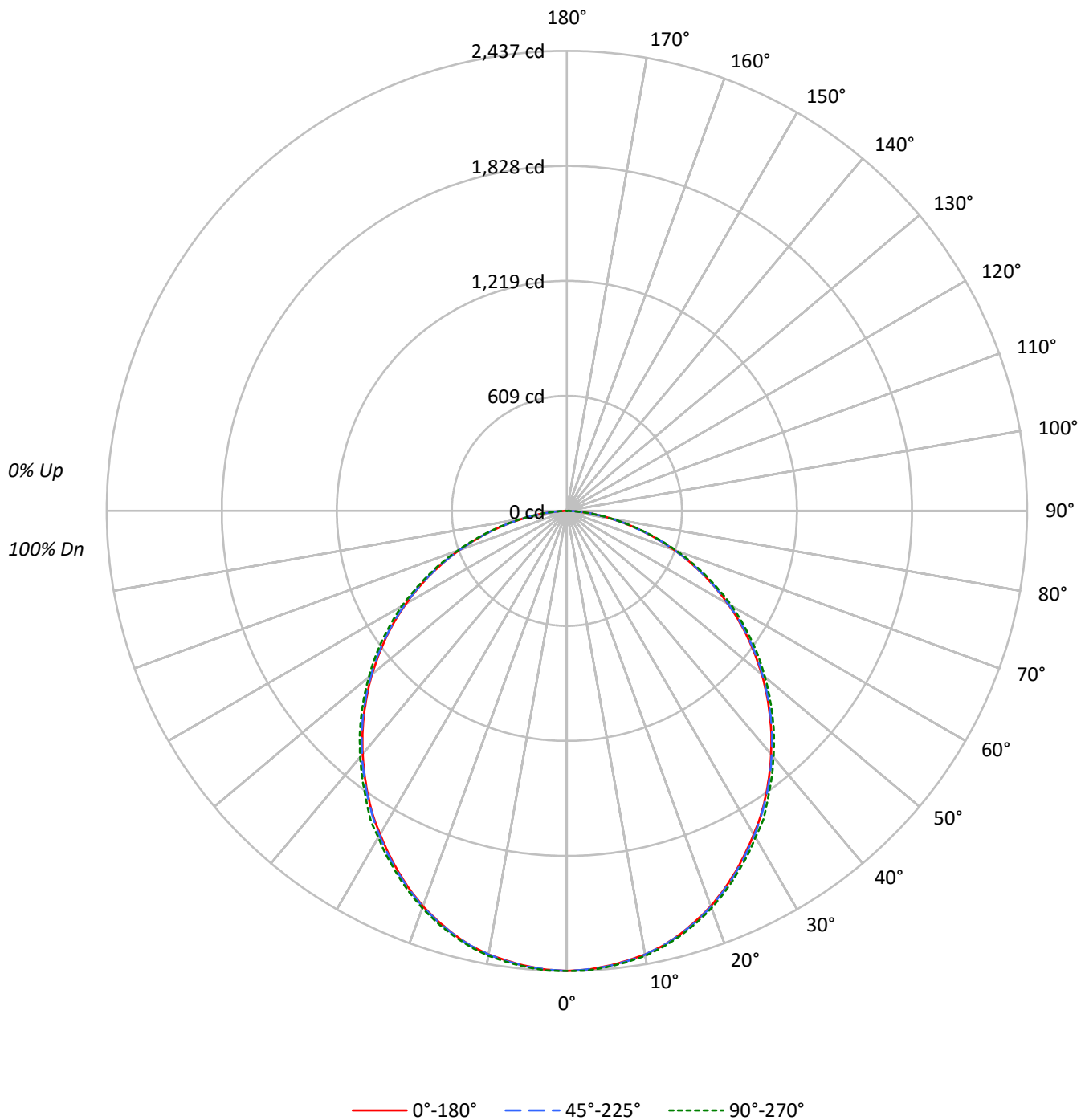
Lumens per Lamp: N/A
Luminaire Lumens: 6584.8 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3279	3279	3279
5°	3270	3273	3277
10°	3260	3261	3270
15°	3233	3235	3244
20°	3191	3195	3206
25°	3133	3141	3155
30°	3074	3084	3103
35°	3018	3026	3050
40°	2954	2964	2991
45°	2890	2902	2932
50°	2820	2833	2865
55°	2740	2753	2798
60°	2649	2660	2720
65°	2533	2541	2589
70°	2378	2380	2432
75°	2161	2153	2203
80°	1857	1849	1881
85°	1440	1417	1425

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	3.5
10°-20°	655.0	9.9
20°-30°	975.1	14.8
30°-40°	1153.2	17.5
40°-50°	1177.3	17.9
50°-60°	1050.6	16.0
60°-70°	791.3	12.0
70°-80°	441.3	6.7
80°-90°	110.6	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°	1860.5	28.3
0°-40°	3013.7	45.8
0°-60°	5241.6	79.6
0°-90°	6584.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6584.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2437	2437	2437	2437	2437	
5°	2421	2426	2423	2424	2426	230
15°	2321	2323	2322	2324	2329	654
25°	2110	2113	2116	2121	2125	972
35°	1838	1836	1842	1849	1857	1149
45°	1519	1518	1525	1533	1541	1172
55°	1168	1166	1174	1182	1193	1044
65°	796	793	798	805	813	787
75°	416	412	414	416	424	441
85°	93	91	92	91	92	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2436.9	2436.9	2436.9	2436.9	2436.9
2.5°	2432.9	2436.9	2431.9	2432.9	2437.4
5°	2421.3	2425.8	2423.3	2423.8	2426.3
7.5°	2405.1	2411.2	2407.6	2408.7	2411.2
10°	2385.9	2390.5	2386.5	2389.0	2393.5
12.5°	2358.7	2360.7	2358.7	2359.7	2364.8
15°	2320.9	2323.4	2322.4	2324.4	2328.9
17.5°	2276.5	2279.5	2279.0	2283.0	2286.6
20°	2228.5	2229.0	2231.1	2235.1	2239.1
22.5°	2172.0	2173.5	2175.6	2181.1	2185.1
25°	2110.5	2113.0	2115.5	2121.1	2125.1
27.5°	2045.4	2047.9	2051.4	2057.5	2064.1
30°	1978.8	1978.8	1985.3	1991.4	1997.5
32.5°	1911.7	1909.2	1915.2	1922.8	1937.4
35°	1837.5	1835.5	1842.1	1849.1	1856.7
37.5°	1760.3	1758.8	1766.4	1773.9	1781.0
40°	1682.1	1680.1	1687.7	1695.2	1702.8
42.5°	1601.9	1600.9	1608.0	1615.5	1623.6
45°	1518.7	1518.1	1525.2	1532.8	1540.9
47.5°	1433.9	1432.9	1439.9	1448.0	1455.1
50°	1347.1	1346.1	1353.2	1361.2	1368.8
52.5°	1257.8	1257.8	1264.4	1271.4	1283.0
55°	1168.0	1166.5	1173.6	1181.6	1192.7
57.5°	1077.2	1075.2	1081.7	1089.8	1099.9
60°	984.3	982.3	988.4	996.5	1010.6
62.5°	890.5	887.5	893.5	901.1	909.7
65°	795.7	792.6	798.2	805.2	813.3
67.5°	700.3	696.8	702.3	708.4	715.9
70°	604.4	600.9	604.9	611.0	618.1
72.5°	509.1	505.5	509.1	511.6	520.2
75°	415.7	412.2	414.2	416.2	423.8
77.5°	324.9	321.4	325.4	326.4	331.0
80°	239.7	236.1	238.6	239.1	242.7
82.5°	162.0	158.9	162.5	159.9	163.0
85°	93.3	90.8	91.8	90.8	92.3
87.5°	36.8	34.8	35.3	33.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)