

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: P835104

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835104
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-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

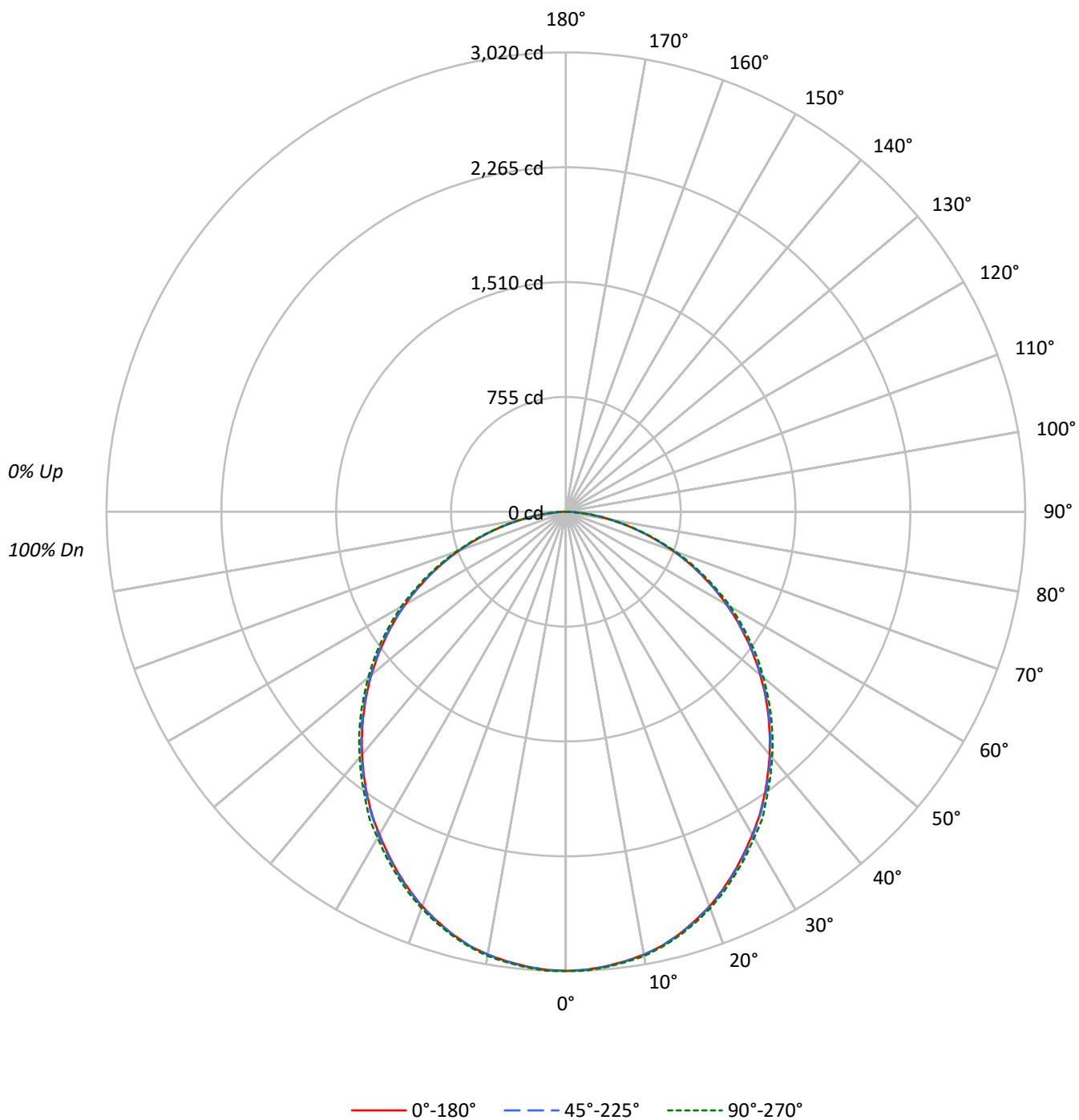
Lumens per Lamp: N/A
Luminaire Lumens: 8157.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4062	4062	4062
5°	4051	4055	4060
10°	4038	4039	4051
15°	4005	4008	4019
20°	3953	3957	3972
25°	3881	3891	3908
30°	3808	3821	3844
35°	3739	3748	3778
40°	3660	3672	3705
45°	3580	3595	3632
50°	3493	3509	3549
55°	3394	3410	3466
60°	3281	3295	3369
65°	3138	3148	3208
70°	2946	2948	3012
75°	2677	2667	2729
80°	2300	2290	2329
85°	1785	1757	1766

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	3.5
10°-20°	811.5	9.9
20°-30°	1208.0	14.8
30°-40°	1428.6	17.5
40°-50°	1458.4	17.9
50°-60°	1301.5	16.0
60°-70°	980.3	12.0
70°-80°	546.7	6.7
80°-90°	137.0	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°	2304.8	28.3
0°-40°	3733.4	45.8
0°-60°	6493.3	79.6
0°-90°	8157.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8157.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3019	3019	3019	3019	3019	
5°	3000	3005	3002	3003	3006	285
15°	2875	2878	2877	2880	2885	810
25°	2614	2618	2621	2628	2633	1204
35°	2276	2274	2282	2291	2300	1423
45°	1881	1881	1889	1899	1909	1451
55°	1447	1445	1454	1464	1478	1293
65°	986	982	989	998	1008	975
75°	515	511	513	516	525	546
85°	116	112	114	112	114	139
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018.9	3018.9	3018.9	3018.9	3018.9
2.5°	3013.9	3018.9	3012.6	3013.9	3019.5
5°	2999.5	3005.1	3002.0	3002.6	3005.7
7.5°	2979.5	2987.0	2982.6	2983.9	2987.0
10°	2955.7	2961.4	2956.4	2959.5	2965.1
12.5°	2922.0	2924.5	2922.0	2923.2	2929.5
15°	2875.1	2878.2	2877.0	2879.5	2885.1
17.5°	2820.1	2823.8	2823.2	2828.2	2832.6
20°	2760.7	2761.3	2763.8	2768.8	2773.8
22.5°	2690.7	2692.6	2695.1	2702.0	2707.0
25°	2614.5	2617.6	2620.7	2627.6	2632.6
27.5°	2533.8	2537.0	2541.3	2548.8	2557.0
30°	2451.3	2451.3	2459.5	2467.0	2474.5
32.5°	2368.2	2365.1	2372.6	2382.0	2400.1
35°	2276.3	2273.8	2282.0	2290.7	2300.1
37.5°	2180.7	2178.8	2188.2	2197.6	2206.3
40°	2083.8	2081.3	2090.7	2100.1	2109.4
42.5°	1984.4	1983.2	1991.9	2001.3	2011.3
45°	1881.3	1880.7	1889.4	1898.8	1908.8
47.5°	1776.3	1775.1	1783.8	1793.8	1802.6
50°	1668.8	1667.6	1676.3	1686.3	1695.7
52.5°	1558.2	1558.2	1566.3	1575.1	1589.4
55°	1446.9	1445.1	1453.8	1463.8	1477.6
57.5°	1334.4	1331.9	1340.0	1350.0	1362.5
60°	1219.4	1216.9	1224.4	1234.4	1251.9
62.5°	1103.2	1099.4	1106.9	1116.3	1126.9
65°	985.7	981.9	988.8	997.5	1007.5
67.5°	867.5	863.2	870.0	877.5	886.9
70°	748.8	744.4	749.4	756.9	765.7
72.5°	630.6	626.3	630.6	633.8	644.4
75°	515.0	510.6	513.1	515.6	525.0
77.5°	402.5	398.1	403.1	404.4	410.0
80°	296.9	292.5	295.6	296.3	300.6
82.5°	200.6	196.9	201.3	198.1	201.9
85°	115.6	112.5	113.8	112.5	114.4
87.5°	45.6	43.1	43.8	41.3	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)