

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: P835086

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835086
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-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

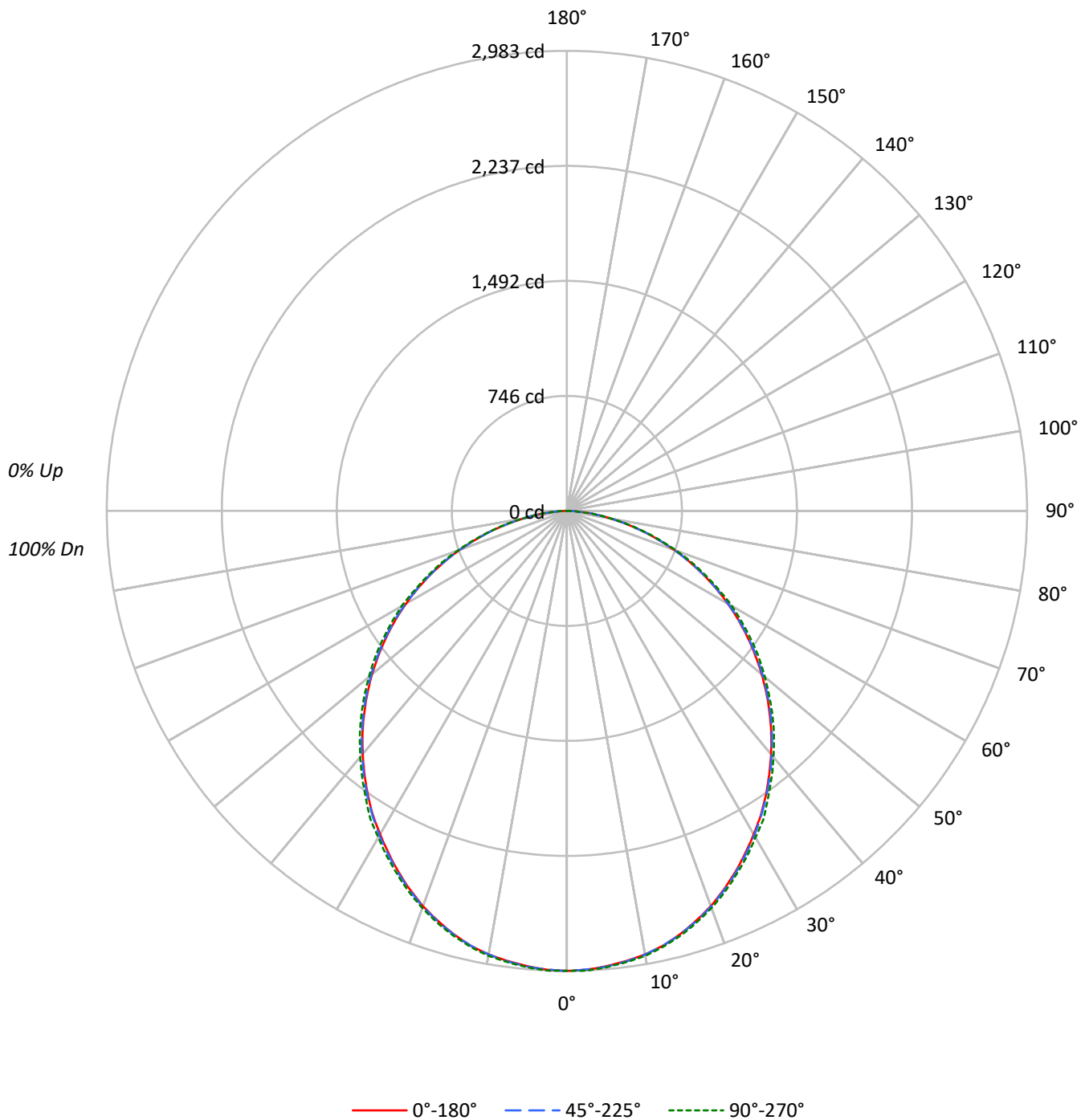
Lumens per Lamp: N/A
Luminaire Lumens: 8059.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

Peachtree City, GA 30269



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4013	4013	4013
5°	4002	4006	4011
10°	3990	3990	4002
15°	3957	3959	3970
20°	3905	3910	3924
25°	3835	3844	3861
30°	3763	3775	3798
35°	3694	3703	3733
40°	3616	3628	3660
45°	3537	3552	3588
50°	3451	3467	3507
55°	3353	3369	3424
60°	3242	3255	3328
65°	3100	3110	3169
70°	2910	2913	2976
75°	2645	2636	2696
80°	2273	2263	2301
85°	1763	1735	1744

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	3.5
10°-20°	801.7	9.9
20°-30°	1193.5	14.8
30°-40°	1411.4	17.5
40°-50°	1440.8	17.9
50°-60°	1285.9	16.0
60°-70°	968.5	12.0
70°-80°	540.1	6.7
80°-90°	135.3	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°	2277.0	28.3
0°-40°	3688.4	45.8
0°-60°	6415.1	79.6
0°-90°	8059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2982	2982	2982	2982	2982	
5°	2963	2969	2966	2966	2970	281
15°	2840	2844	2842	2845	2850	801
25°	2583	2586	2589	2596	2601	1190
35°	2249	2246	2254	2263	2272	1406
45°	1859	1858	1867	1876	1886	1434
55°	1430	1428	1436	1446	1460	1278
65°	974	970	977	986	995	963
75°	509	504	507	509	519	539
85°	114	111	112	111	113	137
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2982.5	2982.5	2982.5	2982.5	2982.5
2.5°	2977.5	2982.5	2976.3	2977.5	2983.1
5°	2963.3	2968.9	2965.8	2966.4	2969.5
7.5°	2943.6	2951.0	2946.7	2947.9	2951.0
10°	2920.1	2925.7	2920.7	2923.8	2929.4
12.5°	2886.8	2889.2	2886.8	2888.0	2894.2
15°	2840.5	2843.5	2842.3	2844.8	2850.3
17.5°	2786.1	2789.8	2789.2	2794.1	2798.5
20°	2727.5	2728.1	2730.5	2735.5	2740.4
22.5°	2658.3	2660.2	2662.6	2669.4	2674.4
25°	2583.0	2586.1	2589.1	2595.9	2600.9
27.5°	2503.3	2506.4	2510.7	2518.1	2526.2
30°	2421.8	2421.8	2429.8	2437.2	2444.6
32.5°	2339.7	2336.6	2344.0	2353.3	2371.2
35°	2248.9	2246.4	2254.5	2263.1	2272.4
37.5°	2154.4	2152.6	2161.8	2171.1	2179.7
40°	2058.7	2056.2	2065.5	2074.8	2084.0
42.5°	1960.5	1959.3	1967.9	1977.2	1987.1
45°	1858.6	1858.0	1866.7	1875.9	1885.8
47.5°	1754.9	1753.7	1762.3	1772.2	1780.8
50°	1648.7	1647.5	1656.1	1666.0	1675.3
52.5°	1539.4	1539.4	1547.4	1556.1	1570.3
55°	1429.5	1427.6	1436.3	1446.2	1459.8
57.5°	1318.3	1315.9	1323.9	1333.8	1346.1
60°	1204.7	1202.3	1209.7	1219.5	1236.8
62.5°	1089.9	1086.2	1093.6	1102.8	1113.3
65°	973.8	970.1	976.9	985.5	995.4
67.5°	857.1	852.8	859.5	867.0	876.2
70°	739.8	735.4	740.4	747.8	756.4
72.5°	623.0	618.7	623.0	626.1	636.6
75°	508.8	504.5	507.0	509.4	518.7
77.5°	397.7	393.3	398.3	399.5	405.1
80°	293.3	289.0	292.1	292.7	297.0
82.5°	198.2	194.5	198.8	195.7	199.4
85°	114.2	111.1	112.4	111.1	113.0
87.5°	45.1	42.6	43.2	40.8	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)