

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: P834467

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834467
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

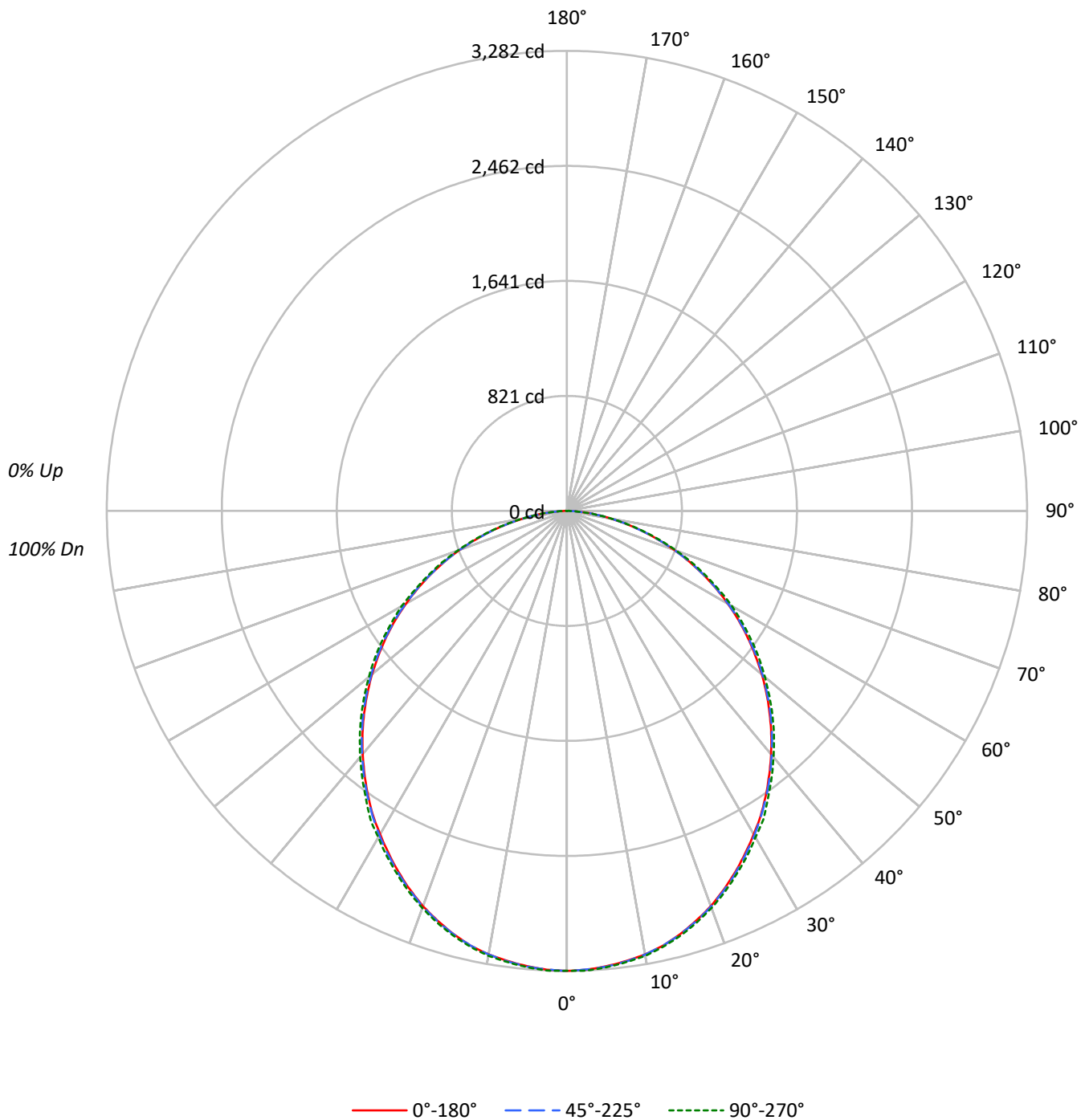
Lumens per Lamp: N/A
Luminaire Lumens: 8867.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8831	8831	8831
5°	8808	8815	8826
10°	8779	8781	8807
15°	8707	8713	8737
20°	8594	8604	8635
25°	8439	8459	8497
30°	8280	8308	8358
35°	8129	8149	8214
40°	7957	7984	8055
45°	7783	7816	7897
50°	7595	7628	7717
55°	7379	7415	7536
60°	7134	7163	7324
65°	6823	6844	6974
70°	6404	6409	6548
75°	5821	5800	5934
80°	5001	4981	5064
85°	3881	3819	3838

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	3.5
10°-20°	882.1	9.9
20°-30°	1313.2	14.8
30°-40°	1553.0	17.5
40°-50°	1585.4	17.9
50°-60°	1414.9	16.0
60°-70°	1065.7	12.0
70°-80°	594.3	6.7
80°-90°	148.9	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°	2505.4	28.3
0°-40°	4058.4	45.8
0°-60°	7058.6	79.6
0°-90°	8867.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8867.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3282	3282	3282	3282	3282	
5°	3261	3267	3263	3264	3267	310
15°	3125	3129	3127	3130	3136	881
25°	2842	2846	2849	2856	2862	1309
35°	2474	2472	2481	2490	2500	1547
45°	2045	2044	2054	2064	2075	1578
55°	1573	1571	1580	1591	1606	1406
65°	1072	1067	1075	1084	1095	1060
75°	560	555	558	560	571	594
85°	126	122	124	122	124	151
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3281.6	3281.6	3281.6	3281.6	3281.6
2.5°	3276.2	3281.6	3274.9	3276.2	3282.3
5°	3260.6	3266.7	3263.3	3264.0	3267.4
7.5°	3238.8	3247.0	3242.2	3243.6	3247.0
10°	3213.0	3219.1	3213.7	3217.1	3223.2
12.5°	3176.3	3179.1	3176.3	3177.7	3184.5
15°	3125.4	3128.8	3127.4	3130.1	3136.3
17.5°	3065.6	3069.7	3069.0	3074.4	3079.2
20°	3001.0	3001.7	3004.4	3009.9	3015.3
22.5°	2924.9	2927.0	2929.7	2937.2	2942.6
25°	2842.1	2845.5	2848.9	2856.3	2861.8
27.5°	2754.4	2757.8	2762.6	2770.7	2779.5
30°	2664.7	2664.7	2673.6	2681.7	2689.9
32.5°	2574.4	2571.0	2579.1	2589.3	2609.0
35°	2474.5	2471.8	2480.6	2490.1	2500.3
37.5°	2370.5	2368.5	2378.7	2388.9	2398.4
40°	2265.2	2262.5	2272.7	2282.9	2293.1
42.5°	2157.2	2155.8	2165.3	2175.5	2186.4
45°	2045.1	2044.4	2053.9	2064.1	2075.0
47.5°	1930.9	1929.6	1939.1	1950.0	1959.5
50°	1814.1	1812.7	1822.2	1833.1	1843.3
52.5°	1693.8	1693.8	1702.7	1712.2	1727.8
55°	1572.9	1570.8	1580.4	1591.2	1606.2
57.5°	1450.6	1447.9	1456.7	1467.6	1481.2
60°	1325.6	1322.9	1331.0	1341.9	1360.9
62.5°	1199.2	1195.1	1203.3	1213.5	1225.0
65°	1071.5	1067.4	1074.9	1084.4	1095.2
67.5°	943.0	938.3	945.8	953.9	964.1
70°	814.0	809.2	814.6	822.8	832.3
72.5°	685.5	680.8	685.5	688.9	700.5
75°	559.9	555.1	557.8	560.5	570.7
77.5°	437.6	432.8	438.2	439.6	445.7
80°	322.7	318.0	321.4	322.1	326.8
82.5°	218.1	214.0	218.8	215.4	219.5
85°	125.7	122.3	123.7	122.3	124.3
87.5°	49.6	46.9	47.6	44.8	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)