

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: P834474

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834474
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-LD4-2HI-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

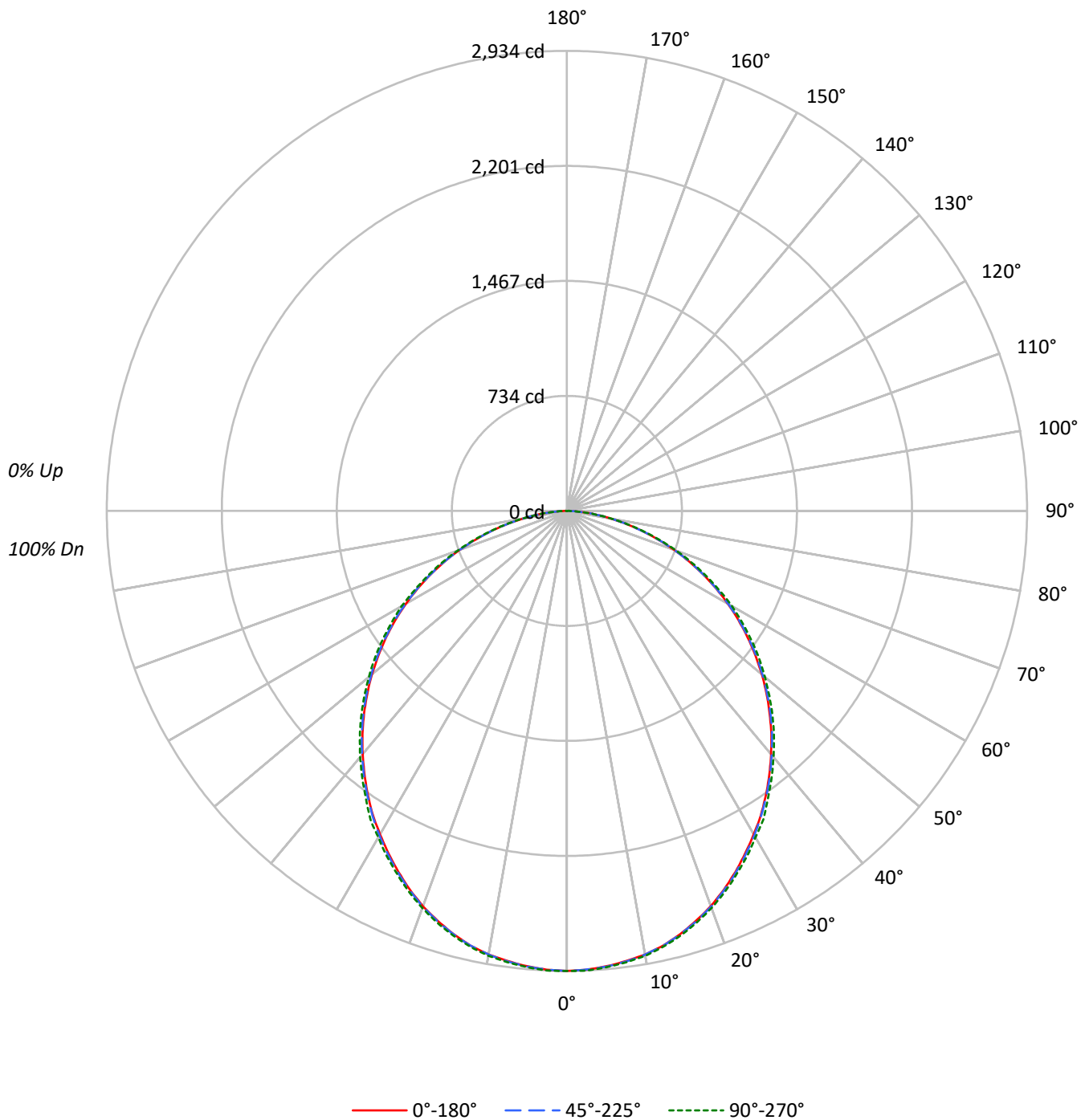
Lumens per Lamp: N/A
Luminaire Lumens: 7927.6 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7895	7895	7895
5°	7874	7881	7891
10°	7849	7851	7874
15°	7784	7789	7811
20°	7683	7692	7720
25°	7544	7562	7597
30°	7402	7427	7472
35°	7267	7285	7343
40°	7114	7137	7202
45°	6958	6988	7060
50°	6790	6820	6899
55°	6597	6629	6737
60°	6378	6404	6548
65°	6099	6118	6235
70°	5725	5730	5855
75°	5204	5185	5305
80°	4471	4452	4528
85°	3470	3415	3433

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	3.5
10°-20°	788.6	9.9
20°-30°	1174.0	14.8
30°-40°	1388.4	17.5
40°-50°	1417.3	17.9
50°-60°	1264.9	16.0
60°-70°	952.7	12.0
70°-80°	531.3	6.7
80°-90°	133.1	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°	2239.9	28.3
0°-40°	3628.2	45.8
0°-60°	6310.5	79.6
0°-90°	7927.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7927.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2934	2934	2934	2934	2934	
5°	2915	2920	2918	2918	2921	277
15°	2794	2797	2796	2798	2804	788
25°	2541	2544	2547	2554	2558	1171
35°	2212	2210	2218	2226	2235	1383
45°	1828	1828	1836	1845	1855	1410
55°	1406	1404	1413	1423	1436	1257
65°	958	954	961	969	979	947
75°	500	496	499	501	510	531
85°	112	109	111	109	111	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2933.9	2933.9	2933.9	2933.9	2933.9
2.5°	2929.0	2933.9	2927.8	2929.0	2934.5
5°	2915.0	2920.5	2917.5	2918.1	2921.1
7.5°	2895.6	2902.9	2898.6	2899.8	2902.9
10°	2872.5	2878.0	2873.1	2876.1	2881.6
12.5°	2839.7	2842.1	2839.7	2840.9	2847.0
15°	2794.1	2797.2	2796.0	2798.4	2803.9
17.5°	2740.7	2744.3	2743.7	2748.6	2752.8
20°	2683.0	2683.6	2686.0	2690.9	2695.7
22.5°	2615.0	2616.8	2619.2	2625.9	2630.7
25°	2540.9	2543.9	2546.9	2553.6	2558.5
27.5°	2462.5	2465.5	2469.8	2477.1	2485.0
30°	2382.3	2382.3	2390.2	2397.5	2404.8
32.5°	2301.5	2298.5	2305.8	2314.9	2332.5
35°	2212.2	2209.8	2217.7	2226.2	2235.3
37.5°	2119.3	2117.5	2126.6	2135.7	2144.2
40°	2025.1	2022.7	2031.8	2040.9	2050.1
42.5°	1928.6	1927.4	1935.9	1945.0	1954.7
45°	1828.3	1827.7	1836.2	1845.4	1855.1
47.5°	1726.3	1725.1	1733.6	1743.3	1751.8
50°	1621.8	1620.6	1629.1	1638.8	1647.9
52.5°	1514.3	1514.3	1522.2	1530.7	1544.7
55°	1406.2	1404.4	1412.9	1422.6	1435.9
57.5°	1296.8	1294.4	1302.3	1312.0	1324.2
60°	1185.1	1182.7	1189.9	1199.7	1216.7
62.5°	1072.1	1068.5	1075.7	1084.9	1095.2
65°	957.9	954.3	960.9	969.4	979.2
67.5°	843.1	838.9	845.5	852.8	861.9
70°	727.7	723.4	728.3	735.6	744.1
72.5°	612.9	608.6	612.9	615.9	626.3
75°	500.5	496.3	498.7	501.1	510.2
77.5°	391.2	386.9	391.8	393.0	398.5
80°	288.5	284.3	287.3	287.9	292.2
82.5°	195.0	191.3	195.6	192.6	196.2
85°	112.4	109.3	110.6	109.3	111.2
87.5°	44.3	41.9	42.5	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)