

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: P834404

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834404
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-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

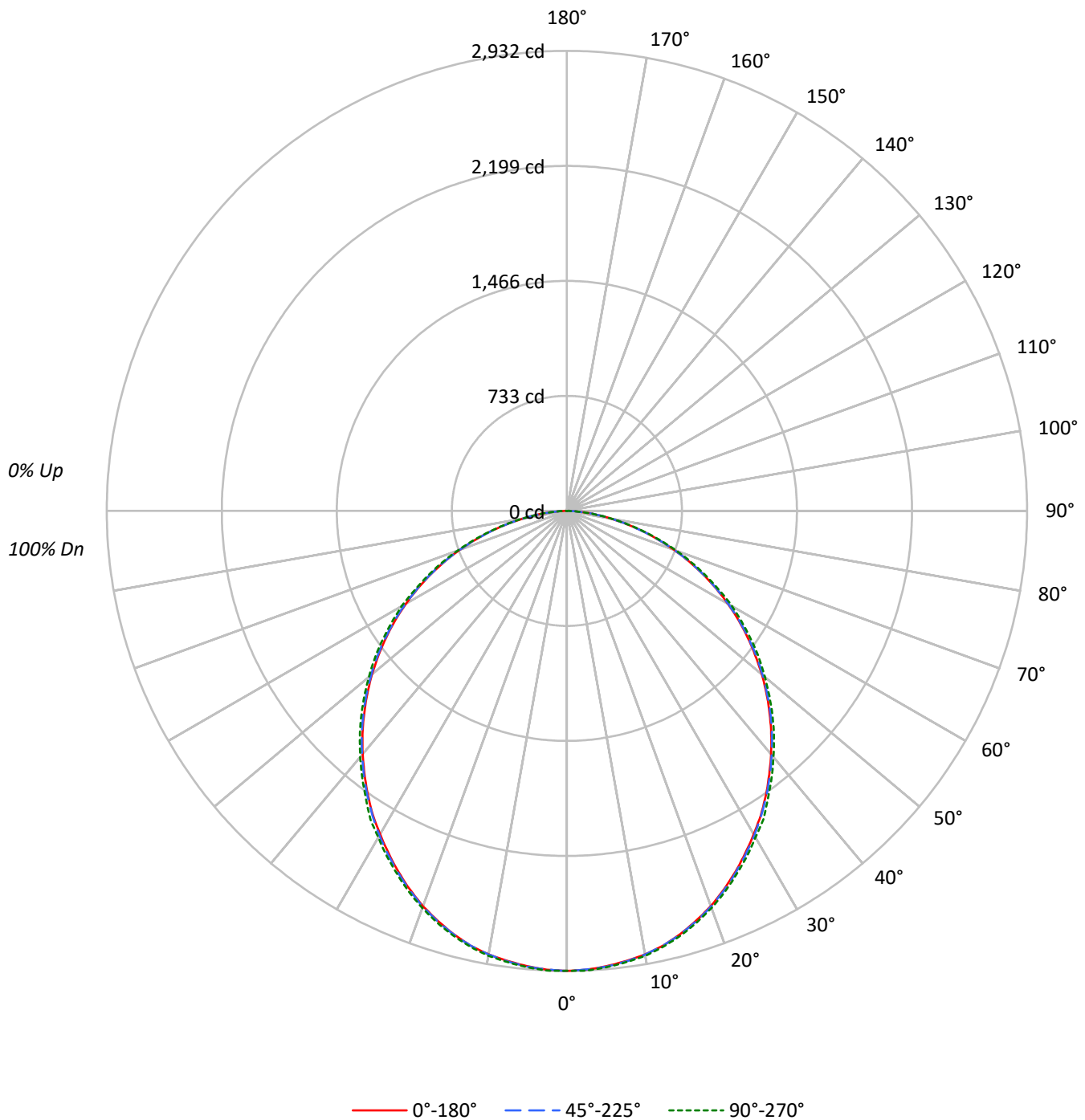
Lumens per Lamp: N/A
Luminaire Lumens: 7921.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7889	7889	7889
5°	7868	7875	7885
10°	7843	7845	7868
15°	7778	7783	7805
20°	7677	7686	7714
25°	7538	7557	7591
30°	7397	7421	7466
35°	7262	7280	7338
40°	7109	7132	7196
45°	6952	6983	7054
50°	6785	6815	6894
55°	6592	6624	6731
60°	6373	6399	6543
65°	6095	6114	6230
70°	5721	5725	5850
75°	5200	5181	5300
80°	4468	4449	4523
85°	3467	3412	3430

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	3.5
10°-20°	788.0	9.9
20°-30°	1173.1	14.8
30°-40°	1387.3	17.5
40°-50°	1416.3	17.9
50°-60°	1263.9	16.0
60°-70°	952.0	12.0
70°-80°	530.9	6.7
80°-90°	133.0	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°	2238.1	28.3
0°-40°	3625.5	45.8
0°-60°	6305.6	79.6
0°-90°	7921.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7921.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2932	2932	2932	2932	2932	
5°	2913	2918	2915	2916	2919	277
15°	2792	2795	2794	2796	2802	787
25°	2539	2542	2545	2552	2556	1170
35°	2210	2208	2216	2224	2234	1382
45°	1827	1826	1835	1844	1854	1409
55°	1405	1403	1412	1422	1435	1256
65°	957	954	960	969	978	947
75°	500	496	498	501	510	530
85°	112	109	110	109	111	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	2926.8	2931.6	2925.5	2926.8	2932.2
5°	2912.8	2918.3	2915.2	2915.8	2918.9
7.5°	2893.4	2900.7	2896.4	2897.6	2900.7
10°	2870.3	2875.8	2870.9	2873.9	2879.4
12.5°	2837.5	2840.0	2837.5	2838.7	2844.8
15°	2792.0	2795.0	2793.8	2796.3	2801.7
17.5°	2738.6	2742.2	2741.6	2746.5	2750.7
20°	2680.9	2681.5	2684.0	2688.8	2693.7
22.5°	2613.0	2614.8	2617.2	2623.9	2628.7
25°	2538.9	2541.9	2545.0	2551.7	2556.5
27.5°	2460.6	2463.6	2467.9	2475.2	2483.1
30°	2380.5	2380.5	2388.4	2395.7	2402.9
32.5°	2299.8	2296.7	2304.0	2313.1	2330.7
35°	2210.5	2208.1	2216.0	2224.5	2233.6
37.5°	2117.7	2115.9	2125.0	2134.1	2142.6
40°	2023.6	2021.2	2030.3	2039.4	2048.5
42.5°	1927.1	1925.9	1934.4	1943.5	1953.2
45°	1826.9	1826.3	1834.8	1843.9	1853.6
47.5°	1725.0	1723.8	1732.3	1742.0	1750.5
50°	1620.6	1619.4	1627.9	1637.6	1646.7
52.5°	1513.1	1513.1	1521.0	1529.5	1543.5
55°	1405.1	1403.3	1411.8	1421.5	1434.8
57.5°	1295.9	1293.4	1301.3	1311.0	1323.2
60°	1184.2	1181.7	1189.0	1198.7	1215.7
62.5°	1071.3	1067.6	1074.9	1084.0	1094.3
65°	957.2	953.5	960.2	968.7	978.4
67.5°	842.5	838.2	844.9	852.2	861.3
70°	727.1	722.9	727.7	735.0	743.5
72.5°	612.4	608.2	612.4	615.5	625.8
75°	500.1	495.9	498.3	500.7	509.8
77.5°	390.9	386.6	391.5	392.7	398.2
80°	288.3	284.1	287.1	287.7	291.9
82.5°	194.8	191.2	195.4	192.4	196.0
85°	112.3	109.3	110.5	109.3	111.1
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)