

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: P834482

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834482
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-LD4-2STD-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

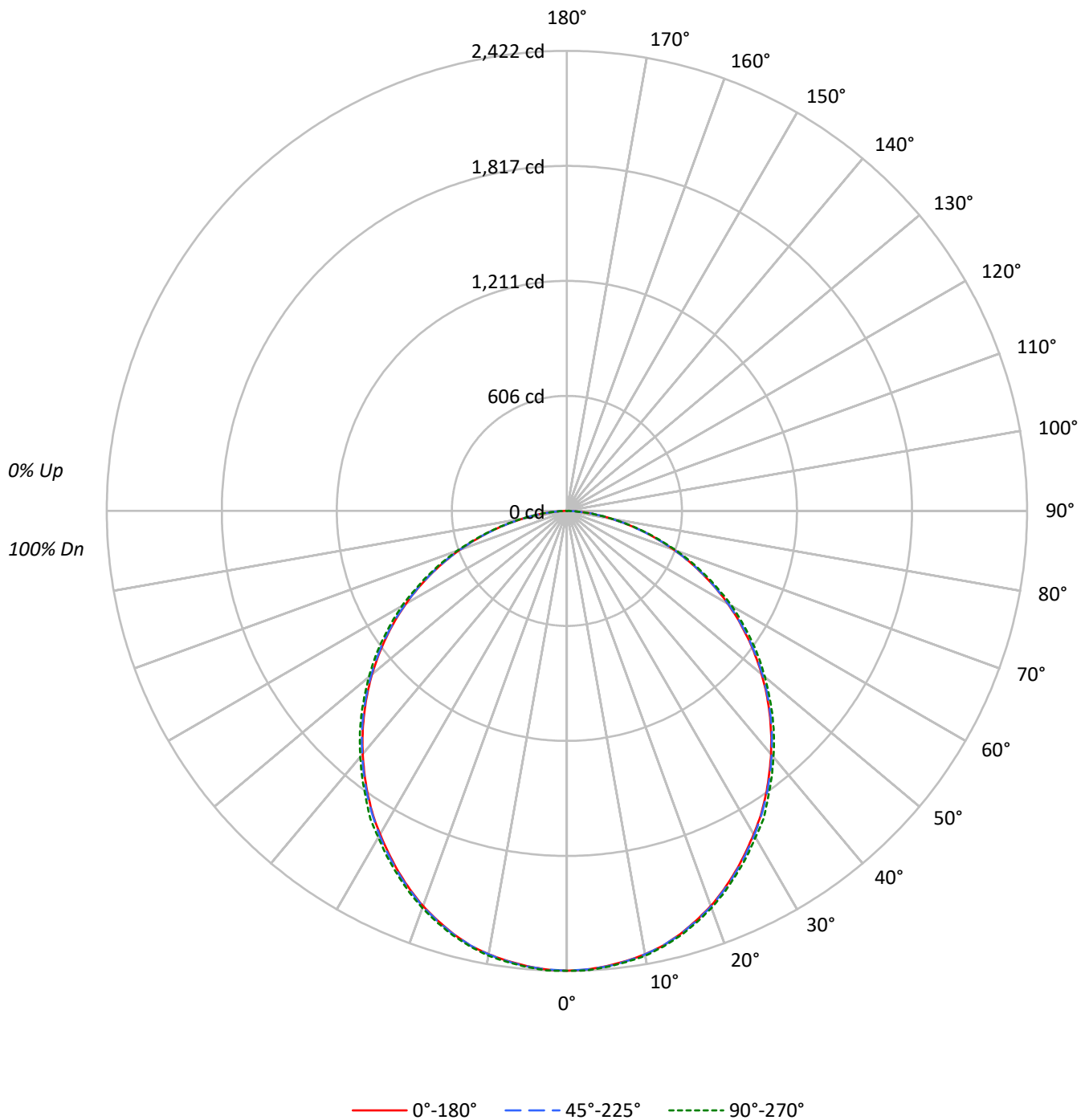
Lumens per Lamp: N/A
Luminaire Lumens: 6542.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	6515	6515	6515
5°	6498	6504	6512
10°	6477	6479	6498
15°	6424	6428	6446
20°	6340	6348	6371
25°	6226	6241	6269
30°	6109	6129	6166
35°	5997	6012	6060
40°	5871	5890	5943
45°	5742	5767	5826
50°	5603	5628	5693
55°	5444	5470	5560
60°	5264	5285	5403
65°	5033	5049	5145
70°	4725	4729	4832
75°	4294	4278	4378
80°	3690	3674	3736
85°	2862	2816	2831

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	3.5
10°-20°	650.8	9.9
20°-30°	968.8	14.8
30°-40°	1145.7	17.5
40°-50°	1169.6	17.9
50°-60°	1043.8	16.0
60°-70°	786.2	12.0
70°-80°	438.4	6.7
80°-90°	109.8	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°	1848.4	28.3
0°-40°	2994.1	45.8
0°-60°	5207.6	79.6
0°-90°	6542.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6542.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2421	2421	2421	2421	2421	
5°	2406	2410	2408	2408	2411	229
15°	2306	2308	2307	2309	2314	650
25°	2097	2099	2102	2107	2111	966
35°	1826	1824	1830	1837	1845	1142
45°	1509	1508	1515	1523	1531	1164
55°	1160	1159	1166	1174	1185	1037
65°	790	788	793	800	808	782
75°	413	410	412	414	421	438
85°	93	90	91	90	92	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2421.1	2421.1	2421.1	2421.1	2421.1
2.5°	2417.1	2421.1	2416.1	2417.1	2421.6
5°	2405.6	2410.1	2407.6	2408.1	2410.6
7.5°	2389.5	2395.6	2392.1	2393.1	2395.6
10°	2370.5	2375.0	2371.0	2373.5	2378.0
12.5°	2343.4	2345.4	2343.4	2344.4	2349.4
15°	2305.8	2308.3	2307.3	2309.3	2313.9
17.5°	2261.7	2264.7	2264.2	2268.2	2271.7
20°	2214.1	2214.6	2216.6	2220.6	2224.6
22.5°	2158.0	2159.5	2161.5	2167.0	2171.0
25°	2096.8	2099.3	2101.8	2107.3	2111.3
27.5°	2032.1	2034.6	2038.2	2044.2	2050.7
30°	1966.0	1966.0	1972.5	1978.5	1984.5
32.5°	1899.3	1896.8	1902.8	1910.3	1924.9
35°	1825.6	1823.6	1830.1	1837.1	1844.7
37.5°	1748.9	1747.4	1754.9	1762.5	1769.5
40°	1671.2	1669.2	1676.7	1684.3	1691.8
42.5°	1591.5	1590.5	1597.5	1605.1	1613.1
45°	1508.8	1508.3	1515.3	1522.9	1530.9
47.5°	1424.6	1423.6	1430.6	1438.6	1445.7
50°	1338.4	1337.4	1344.4	1352.4	1359.9
52.5°	1249.7	1249.7	1256.2	1263.2	1274.7
55°	1160.4	1158.9	1166.0	1174.0	1185.0
57.5°	1070.2	1068.2	1074.7	1082.7	1092.8
60°	978.0	976.0	982.0	990.0	1004.0
62.5°	884.7	881.7	887.7	895.3	903.8
65°	790.5	787.5	793.0	800.0	808.0
67.5°	695.8	692.3	697.8	703.8	711.3
70°	600.5	597.0	601.0	607.0	614.1
72.5°	505.8	502.3	505.8	508.3	516.8
75°	413.0	409.5	411.5	413.5	421.1
77.5°	322.8	319.3	323.3	324.3	328.8
80°	238.1	234.6	237.1	237.6	241.1
82.5°	160.9	157.9	161.4	158.9	161.9
85°	92.7	90.2	91.2	90.2	91.7
87.5°	36.6	34.6	35.1	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)