

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: P834473

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834473
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-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

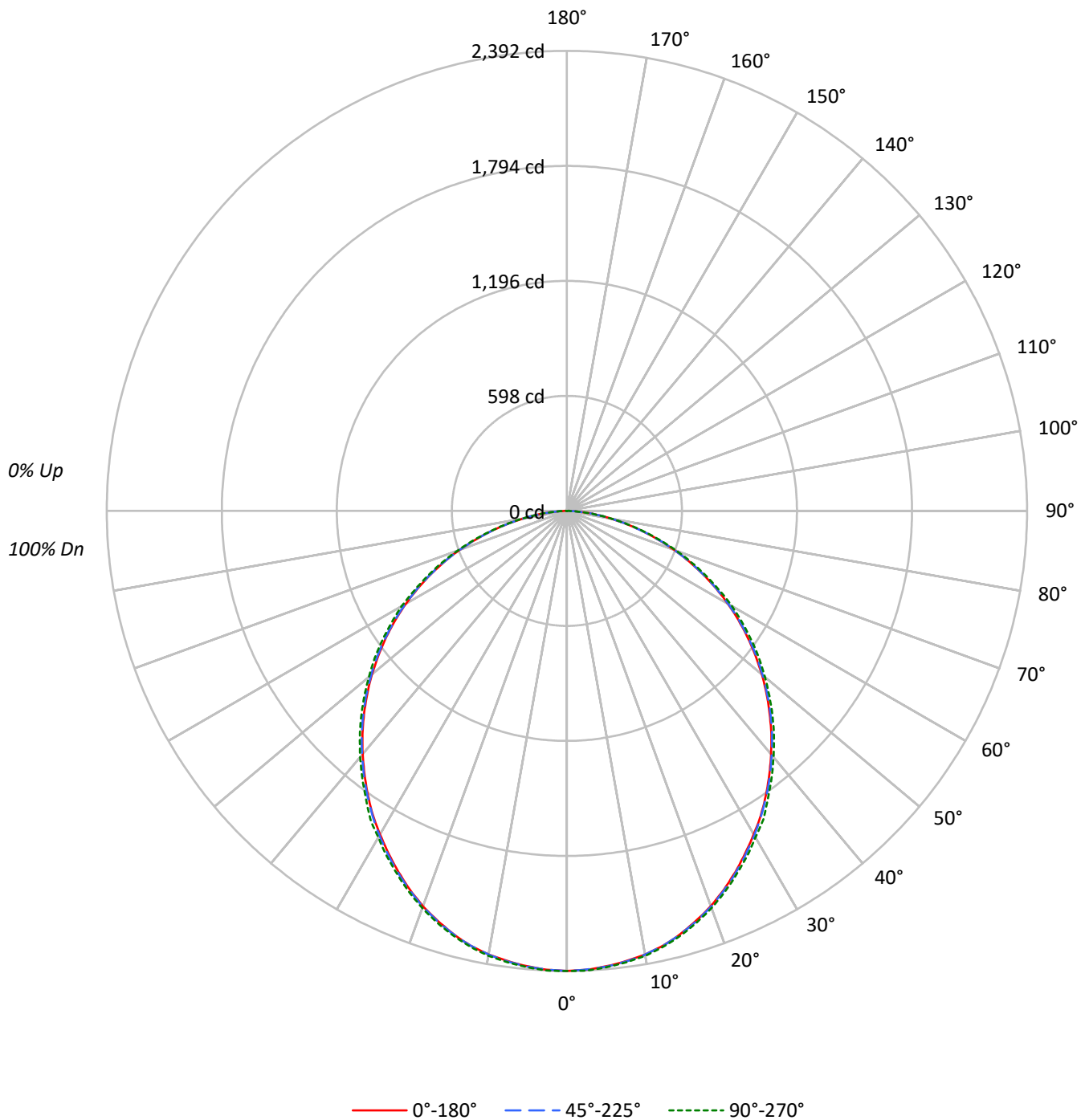
Lumens per Lamp: N/A
Luminaire Lumens: 6463.3 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6437	6437	6437
5°	6420	6425	6433
10°	6399	6401	6420
15°	6347	6350	6369
20°	6264	6271	6294
25°	6151	6165	6193
30°	6035	6055	6092
35°	5925	5940	5987
40°	5800	5819	5871
45°	5673	5697	5756
50°	5536	5560	5625
55°	5379	5404	5492
60°	5200	5222	5338
65°	4973	4989	5083
70°	4668	4672	4773
75°	4243	4227	4325
80°	3645	3629	3691
85°	2828	2782	2797

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	3.5
10°-20°	643.0	9.9
20°-30°	957.2	14.8
30°-40°	1131.9	17.5
40°-50°	1155.5	17.9
50°-60°	1031.3	16.0
60°-70°	776.8	12.0
70°-80°	433.2	6.7
80°-90°	108.5	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°	1826.1	28.3
0°-40°	2958.1	45.8
0°-60°	5144.9	79.6
0°-90°	6463.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6463.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2392	2392	2392	2392	2392	
5°	2377	2381	2379	2379	2382	226
15°	2278	2280	2280	2282	2286	642
25°	2072	2074	2076	2082	2086	954
35°	1804	1802	1808	1815	1822	1128
45°	1491	1490	1497	1504	1512	1150
55°	1146	1145	1152	1160	1171	1025
65°	781	778	784	790	798	772
75°	408	405	407	409	416	433
85°	92	89	90	89	91	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2392.0	2392.0	2392.0	2392.0	2392.0
2.5°	2388.0	2392.0	2387.0	2388.0	2392.5
5°	2376.6	2381.1	2378.6	2379.1	2381.6
7.5°	2360.8	2366.7	2363.2	2364.2	2366.7
10°	2341.9	2346.4	2342.4	2344.9	2349.4
12.5°	2315.2	2317.2	2315.2	2316.2	2321.1
15°	2278.1	2280.5	2279.5	2281.5	2286.0
17.5°	2234.5	2237.4	2237.0	2240.9	2244.4
20°	2187.4	2187.9	2189.9	2193.9	2197.8
22.5°	2132.0	2133.4	2135.4	2140.9	2144.8
25°	2071.5	2074.0	2076.5	2081.9	2085.9
27.5°	2007.7	2010.1	2013.6	2019.5	2026.0
30°	1942.3	1942.3	1948.7	1954.7	1960.6
32.5°	1876.4	1873.9	1879.9	1887.3	1901.7
35°	1803.6	1801.6	1808.1	1815.0	1822.4
37.5°	1727.9	1726.4	1733.8	1741.2	1748.2
40°	1651.1	1649.1	1656.5	1664.0	1671.4
42.5°	1572.4	1571.4	1578.3	1585.7	1593.6
45°	1490.6	1490.1	1497.1	1504.5	1512.4
47.5°	1407.4	1406.5	1413.4	1421.3	1428.2
50°	1322.3	1321.3	1328.2	1336.1	1343.6
52.5°	1234.6	1234.6	1241.0	1248.0	1259.4
55°	1146.5	1145.0	1151.9	1159.8	1170.7
57.5°	1057.3	1055.3	1061.8	1069.7	1079.6
60°	966.2	964.2	970.2	978.1	991.9
62.5°	874.1	871.1	877.1	884.5	892.9
65°	781.0	778.0	783.5	790.4	798.3
67.5°	687.4	683.9	689.4	695.3	702.7
70°	593.3	589.8	593.8	599.7	606.7
72.5°	499.7	496.2	499.7	502.2	510.6
75°	408.1	404.6	406.6	408.6	416.0
77.5°	318.9	315.5	319.4	320.4	324.9
80°	235.2	231.8	234.2	234.7	238.2
82.5°	159.0	156.0	159.5	157.0	160.0
85°	91.6	89.1	90.1	89.1	90.6
87.5°	36.2	34.2	34.7	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)