

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: P835028

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835028
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1STD-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

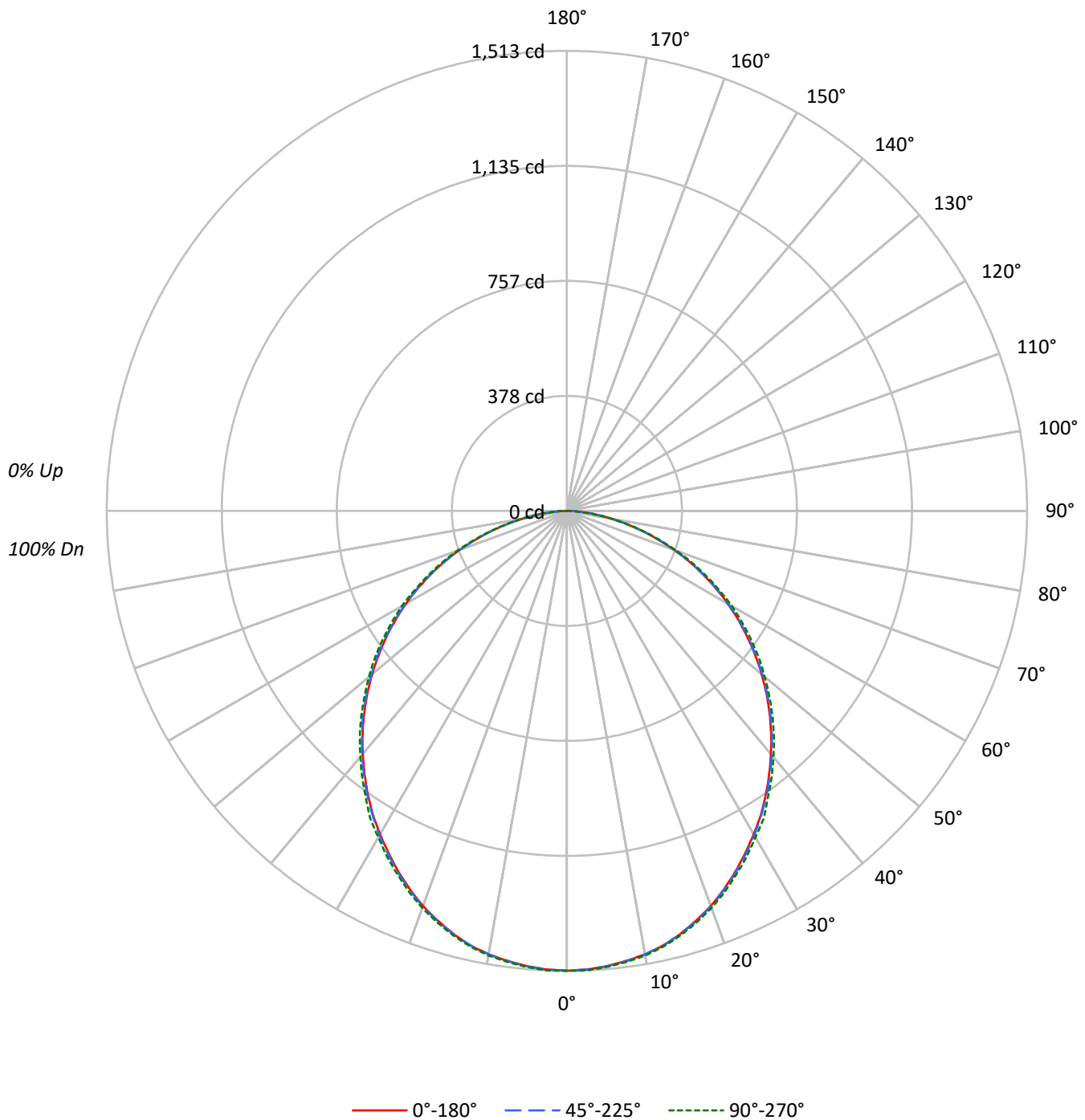
Lumens per Lamp: N/A
Luminaire Lumens: 4086.4 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2035	2035	2035
5°	2029	2031	2034
10°	2023	2023	2029
15°	2006	2008	2013
20°	1980	1983	1990
25°	1944	1949	1958
30°	1908	1914	1926
35°	1873	1878	1893
40°	1834	1839	1856
45°	1793	1801	1819
50°	1750	1758	1778
55°	1700	1708	1736
60°	1644	1651	1688
65°	1572	1577	1607
70°	1476	1477	1509
75°	1341	1337	1367
80°	1152	1148	1167
85°	894	880	885

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.5
10°-20°	406.5	9.9
20°-30°	605.2	14.8
30°-40°	715.7	17.5
40°-50°	730.6	17.9
50°-60°	652.0	16.0
60°-70°	491.1	12.0
70°-80°	273.9	6.7
80°-90°	68.6	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°	1154.6	28.3
0°-40°	1870.2	45.8
0°-60°	3252.8	79.6
0°-90°	4086.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4086.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1503	1505	1504	1504	1506	143
15°	1440	1442	1441	1442	1445	406
25°	1310	1311	1313	1316	1319	603
35°	1140	1139	1143	1148	1152	713
45°	942	942	946	951	956	727
55°	725	724	728	733	740	648
65°	494	492	495	500	505	488
75°	258	256	257	258	263	273
85°	58	56	57	56	57	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.3	1512.3	1512.3	1512.3	1512.3
2.5°	1509.8	1512.3	1509.2	1509.8	1512.6
5°	1502.6	1505.4	1503.8	1504.2	1505.7
7.5°	1492.6	1496.3	1494.1	1494.8	1496.3
10°	1480.7	1483.5	1481.0	1482.6	1485.4
12.5°	1463.8	1465.0	1463.8	1464.4	1467.5
15°	1440.3	1441.9	1441.2	1442.5	1445.3
17.5°	1412.7	1414.6	1414.3	1416.8	1419.0
20°	1383.0	1383.3	1384.6	1387.1	1389.6
22.5°	1347.9	1348.9	1350.1	1353.6	1356.1
25°	1309.7	1311.3	1312.9	1316.3	1318.8
27.5°	1269.3	1270.9	1273.1	1276.8	1280.9
30°	1228.0	1228.0	1232.1	1235.8	1239.6
32.5°	1186.4	1184.8	1188.6	1193.2	1202.3
35°	1140.3	1139.1	1143.2	1147.5	1152.2
37.5°	1092.4	1091.5	1096.2	1100.9	1105.3
40°	1043.9	1042.6	1047.3	1052.0	1056.7
42.5°	994.1	993.5	997.9	1002.6	1007.6
45°	942.4	942.1	946.5	951.2	956.2
47.5°	889.8	889.2	893.6	898.6	903.0
50°	836.0	835.4	839.8	844.8	849.5
52.5°	780.6	780.6	784.6	789.0	796.2
55°	724.8	723.9	728.3	733.3	740.2
57.5°	668.5	667.2	671.3	676.3	682.6
60°	610.9	609.6	613.4	618.4	627.2
62.5°	552.6	550.8	554.5	559.2	564.5
65°	493.8	491.9	495.3	499.7	504.7
67.5°	434.6	432.4	435.8	439.6	444.3
70°	375.1	372.9	375.4	379.2	383.6
72.5°	315.9	313.7	315.9	317.5	322.8
75°	258.0	255.8	257.1	258.3	263.0
77.5°	201.6	199.4	202.0	202.6	205.4
80°	148.7	146.5	148.1	148.4	150.6
82.5°	100.5	98.6	100.8	99.3	101.1
85°	57.9	56.4	57.0	56.4	57.3
87.5°	22.9	21.6	21.9	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)