

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: P835707

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835707
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-5HI-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

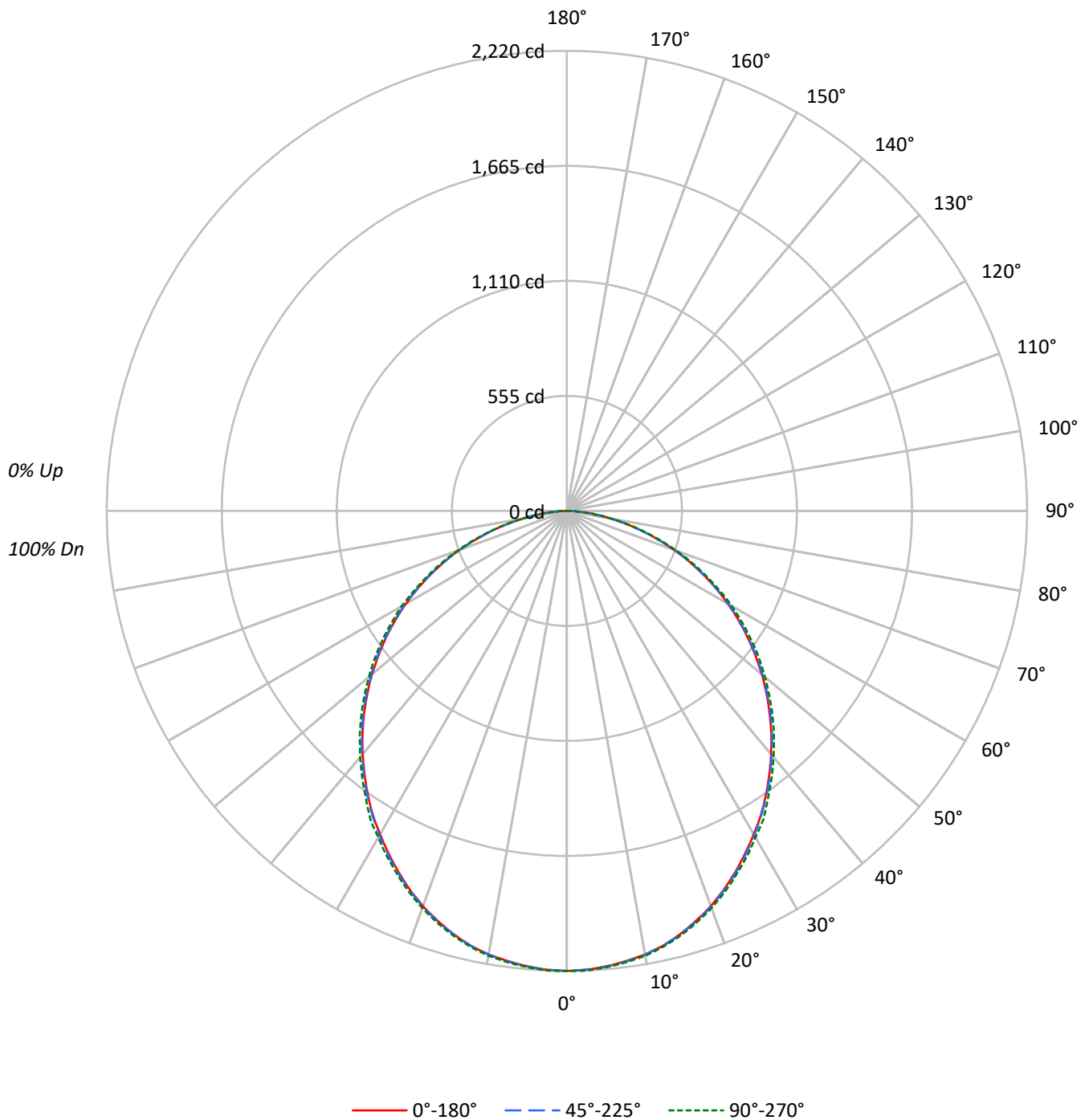
Lumens per Lamp: N/A
Luminaire Lumens: 5998.6 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5974	5974	5974
5°	5958	5963	5971
10°	5939	5940	5958
15°	5890	5894	5911
20°	5814	5820	5841
25°	5709	5722	5748
30°	5601	5620	5654
35°	5499	5513	5556
40°	5383	5401	5449
45°	5265	5288	5342
50°	5138	5161	5220
55°	4992	5016	5097
60°	4826	4846	4955
65°	4615	4630	4718
70°	4332	4336	4430
75°	3937	3923	4014
80°	3383	3369	3426
85°	2624	2584	2597

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	3.5
10°-20°	596.7	9.9
20°-30°	888.3	14.8
30°-40°	1050.5	17.5
40°-50°	1072.5	17.9
50°-60°	957.1	16.0
60°-70°	720.9	12.0
70°-80°	402.0	6.7
80°-90°	100.7	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°	1694.8	28.3
0°-40°	2745.4	45.8
0°-60°	4774.9	79.6
0°-90°	5998.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5998.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2206	2210	2208	2208	2210	210
15°	2114	2116	2116	2118	2122	596
25°	1923	1925	1927	1932	1936	886
35°	1674	1672	1678	1684	1691	1047
45°	1384	1383	1389	1396	1404	1067
55°	1064	1063	1069	1076	1086	951
65°	725	722	727	734	741	717
75°	379	376	377	379	386	401
85°	85	83	84	83	84	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2220.0	2220.0	2220.0	2220.0	2220.0
2.5°	2216.3	2220.0	2215.4	2216.3	2220.4
5°	2205.7	2209.8	2207.5	2208.0	2210.3
7.5°	2191.0	2196.5	2193.3	2194.2	2196.5
10°	2173.5	2177.7	2174.0	2176.3	2180.4
12.5°	2148.7	2150.6	2148.7	2149.6	2154.2
15°	2114.2	2116.5	2115.6	2117.5	2121.6
17.5°	2073.8	2076.6	2076.1	2079.8	2083.0
20°	2030.1	2030.6	2032.4	2036.1	2039.8
22.5°	1978.7	1980.0	1981.9	1986.9	1990.6
25°	1922.6	1924.9	1927.2	1932.2	1935.9
27.5°	1863.3	1865.6	1868.8	1874.3	1880.3
30°	1802.6	1802.6	1808.6	1814.1	1819.6
32.5°	1741.5	1739.2	1744.7	1751.6	1764.9
35°	1673.9	1672.1	1678.1	1684.5	1691.4
37.5°	1603.6	1602.2	1609.1	1616.0	1622.5
40°	1532.4	1530.5	1537.4	1544.3	1551.2
42.5°	1459.3	1458.4	1464.8	1471.7	1479.1
45°	1383.5	1383.0	1389.4	1396.3	1403.7
47.5°	1306.2	1305.3	1311.8	1319.1	1325.5
50°	1227.2	1226.3	1232.7	1240.0	1246.9
52.5°	1145.8	1145.8	1151.8	1158.2	1168.8
55°	1064.0	1062.6	1069.1	1076.4	1086.5
57.5°	981.3	979.4	985.4	992.8	1002.0
60°	896.7	894.9	900.4	907.7	920.6
62.5°	811.2	808.5	814.0	820.9	828.7
65°	724.8	722.1	727.1	733.6	740.9
67.5°	638.0	634.7	639.8	645.3	652.2
70°	550.6	547.4	551.1	556.6	563.0
72.5°	463.8	460.5	463.8	466.1	473.9
75°	378.7	375.5	377.3	379.2	386.1
77.5°	296.0	292.8	296.5	297.4	301.5
80°	218.3	215.1	217.4	217.9	221.1
82.5°	147.5	144.8	148.0	145.7	148.5
85°	85.0	82.7	83.7	82.7	84.1
87.5°	33.6	31.7	32.2	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)