

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: P835793

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835793
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-LD4-4STD-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

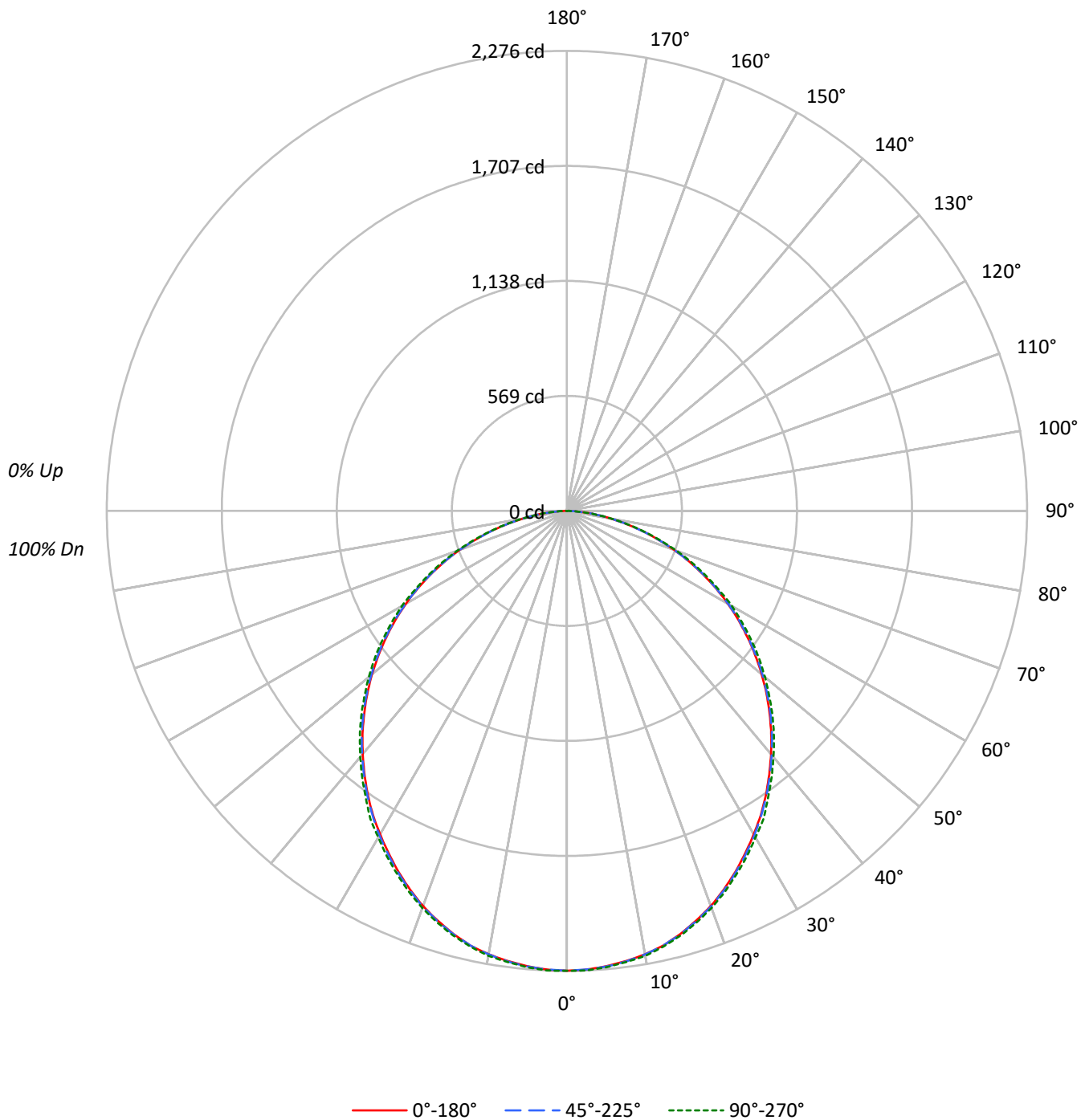
Lumens per Lamp: N/A
Luminaire Lumens: 6148.1 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6123	6123	6123
5°	6107	6112	6119
10°	6087	6089	6107
15°	6037	6041	6058
20°	5958	5965	5987
25°	5851	5865	5891
30°	5741	5760	5795
35°	5636	5650	5695
40°	5517	5536	5585
45°	5396	5420	5475
50°	5266	5289	5350
55°	5116	5141	5225
60°	4947	4966	5078
65°	4730	4745	4835
70°	4441	4444	4541
75°	4036	4022	4114
80°	3468	3453	3512
85°	2689	2646	2661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	3.5
10°-20°	611.6	9.9
20°-30°	910.5	14.8
30°-40°	1076.7	17.5
40°-50°	1099.2	17.9
50°-60°	981.0	16.0
60°-70°	738.9	12.0
70°-80°	412.1	6.7
80°-90°	103.2	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°	1737.1	28.3
0°-40°	2813.8	45.8
0°-60°	4894.0	79.6
0°-90°	6148.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6148.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2261	2265	2263	2263	2265	215
15°	2167	2169	2168	2170	2174	611
25°	1970	1973	1975	1980	1984	908
35°	1716	1714	1720	1726	1734	1073
45°	1418	1418	1424	1431	1439	1094
55°	1090	1089	1096	1103	1114	975
65°	743	740	745	752	759	735
75°	388	385	387	389	396	412
85°	87	85	86	85	86	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2275.3	2275.3	2275.3	2275.3	2275.3
2.5°	2271.5	2275.3	2270.6	2271.5	2275.8
5°	2260.7	2264.9	2262.6	2263.1	2265.4
7.5°	2245.6	2251.3	2248.0	2248.9	2251.3
10°	2227.7	2232.0	2228.2	2230.6	2234.8
12.5°	2202.3	2204.2	2202.3	2203.2	2207.9
15°	2167.0	2169.3	2168.4	2170.3	2174.5
17.5°	2125.5	2128.3	2127.9	2131.6	2134.9
20°	2080.7	2081.2	2083.1	2086.9	2090.6
22.5°	2028.0	2029.4	2031.3	2036.5	2040.2
25°	1970.5	1972.9	1975.2	1980.4	1984.2
27.5°	1909.7	1912.1	1915.4	1921.1	1927.2
30°	1847.6	1847.6	1853.7	1859.3	1865.0
32.5°	1784.9	1782.6	1788.2	1795.3	1808.9
35°	1715.7	1713.8	1719.9	1726.5	1733.6
37.5°	1643.6	1642.2	1649.2	1656.3	1662.9
40°	1570.6	1568.7	1575.8	1582.8	1589.9
42.5°	1495.7	1494.7	1501.3	1508.4	1515.9
45°	1417.9	1417.5	1424.1	1431.1	1438.7
47.5°	1338.8	1337.9	1344.5	1352.0	1358.6
50°	1257.8	1256.8	1263.4	1271.0	1278.0
52.5°	1174.4	1174.4	1180.5	1187.1	1197.9
55°	1090.5	1089.1	1095.7	1103.3	1113.6
57.5°	1005.8	1003.9	1010.0	1017.5	1026.9
60°	919.1	917.2	922.8	930.4	943.6
62.5°	831.5	828.6	834.3	841.3	849.4
65°	742.9	740.1	745.2	751.8	759.4
67.5°	653.9	650.6	655.7	661.4	668.5
70°	564.4	561.1	564.8	570.5	577.1
72.5°	475.3	472.0	475.3	477.7	485.7
75°	388.2	384.9	386.8	388.6	395.7
77.5°	303.4	300.1	303.8	304.8	309.0
80°	223.8	220.5	222.8	223.3	226.6
82.5°	151.2	148.4	151.7	149.3	152.2
85°	87.1	84.8	85.7	84.8	86.2
87.5°	34.4	32.5	33.0	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)