

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: P835745

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835745
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-LD4-6STD-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

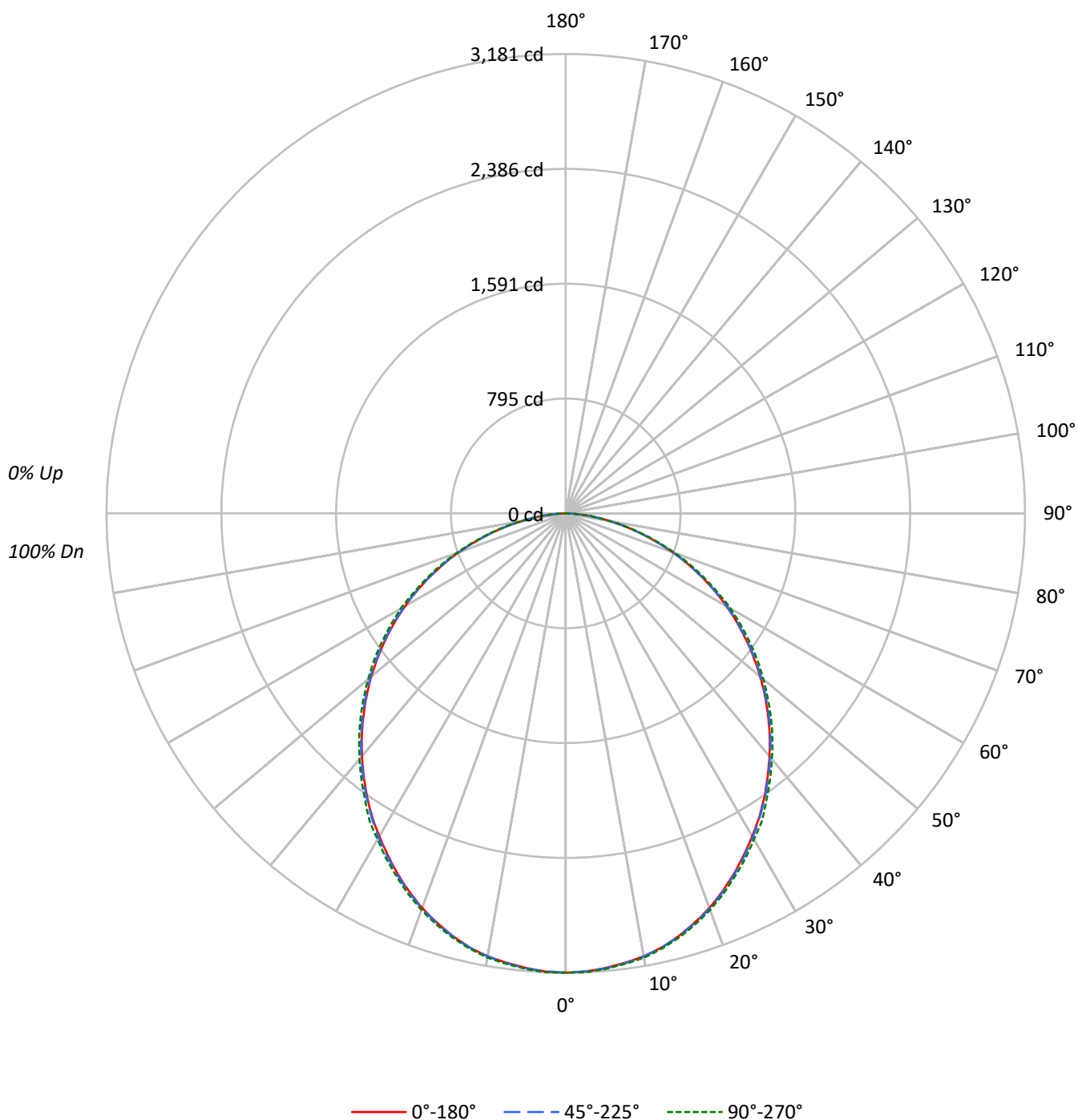
Lumens per Lamp: N/A
Luminaire Lumens: 8593.4 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8558	8558	8558
5°	8535	8543	8553
10°	8508	8510	8535
15°	8438	8444	8467
20°	8328	8338	8368
25°	8178	8197	8234
30°	8024	8051	8100
35°	7878	7897	7960
40°	7711	7737	7806
45°	7542	7575	7653
50°	7360	7393	7478
55°	7151	7185	7302
60°	6914	6942	7098
65°	6612	6632	6758
70°	6206	6212	6346
75°	5641	5621	5751
80°	4847	4826	4908
85°	3761	3699	3721

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	3.5
10°-20°	854.8	9.9
20°-30°	1272.6	14.8
30°-40°	1505.0	17.5
40°-50°	1536.4	17.9
50°-60°	1371.1	16.0
60°-70°	1032.7	12.0
70°-80°	575.9	6.7
80°-90°	144.3	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°	2428.0	28.3
0°-40°	3933.0	45.8
0°-60°	6840.5	79.6
0°-90°	8593.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8593.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3180	3180	3180	3180	3180	
5°	3160	3166	3162	3163	3166	300
15°	3029	3032	3031	3033	3039	854
25°	2754	2758	2761	2768	2773	1269
35°	2398	2395	2404	2413	2423	1500
45°	1982	1981	1990	2000	2011	1529
55°	1524	1522	1532	1542	1556	1363
65°	1038	1034	1042	1051	1061	1027
75°	543	538	541	543	553	575
85°	122	118	120	118	120	146
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3180.3	3180.3	3180.3	3180.3	3180.3
2.5°	3175.0	3180.3	3173.7	3175.0	3180.9
5°	3159.8	3165.8	3162.5	3163.1	3166.4
7.5°	3138.8	3146.7	3142.1	3143.4	3146.7
10°	3113.8	3119.7	3114.4	3117.7	3123.6
12.5°	3078.2	3080.8	3078.2	3079.5	3086.1
15°	3028.8	3032.1	3030.8	3033.4	3039.3
17.5°	2970.9	2974.8	2974.2	2979.4	2984.0
20°	2908.3	2909.0	2911.6	2916.9	2922.1
22.5°	2834.6	2836.5	2839.2	2846.4	2851.7
25°	2754.2	2757.5	2760.8	2768.1	2773.3
27.5°	2669.3	2672.6	2677.2	2685.1	2693.7
30°	2582.4	2582.4	2591.0	2598.9	2606.8
32.5°	2494.8	2491.5	2499.4	2509.3	2528.4
35°	2398.0	2395.4	2404.0	2413.2	2423.1
37.5°	2297.3	2295.3	2305.2	2315.1	2324.3
40°	2195.2	2192.6	2202.5	2212.4	2222.2
42.5°	2090.5	2089.2	2098.4	2108.3	2118.9
45°	1981.9	1981.2	1990.5	2000.3	2010.9
47.5°	1871.3	1870.0	1879.2	1889.7	1898.9
50°	1758.0	1756.7	1765.9	1776.5	1786.3
52.5°	1641.5	1641.5	1650.0	1659.3	1674.4
55°	1524.3	1522.3	1531.5	1542.1	1556.5
57.5°	1405.8	1403.1	1411.7	1422.2	1435.4
60°	1284.6	1282.0	1289.9	1300.4	1318.9
62.5°	1162.1	1158.2	1166.1	1176.0	1187.2
65°	1038.4	1034.4	1041.6	1050.9	1061.4
67.5°	913.9	909.3	916.5	924.4	934.3
70°	788.8	784.2	789.5	797.4	806.6
72.5°	664.4	659.8	664.4	667.7	678.8
75°	542.6	537.9	540.6	543.2	553.1
77.5°	424.0	419.4	424.7	426.0	431.9
80°	312.8	308.1	311.4	312.1	316.7
82.5°	211.4	207.4	212.0	208.7	212.7
85°	121.8	118.5	119.8	118.5	120.5
87.5°	48.1	45.4	46.1	43.5	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)