

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: P834503

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834503
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-LD4-3STD-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

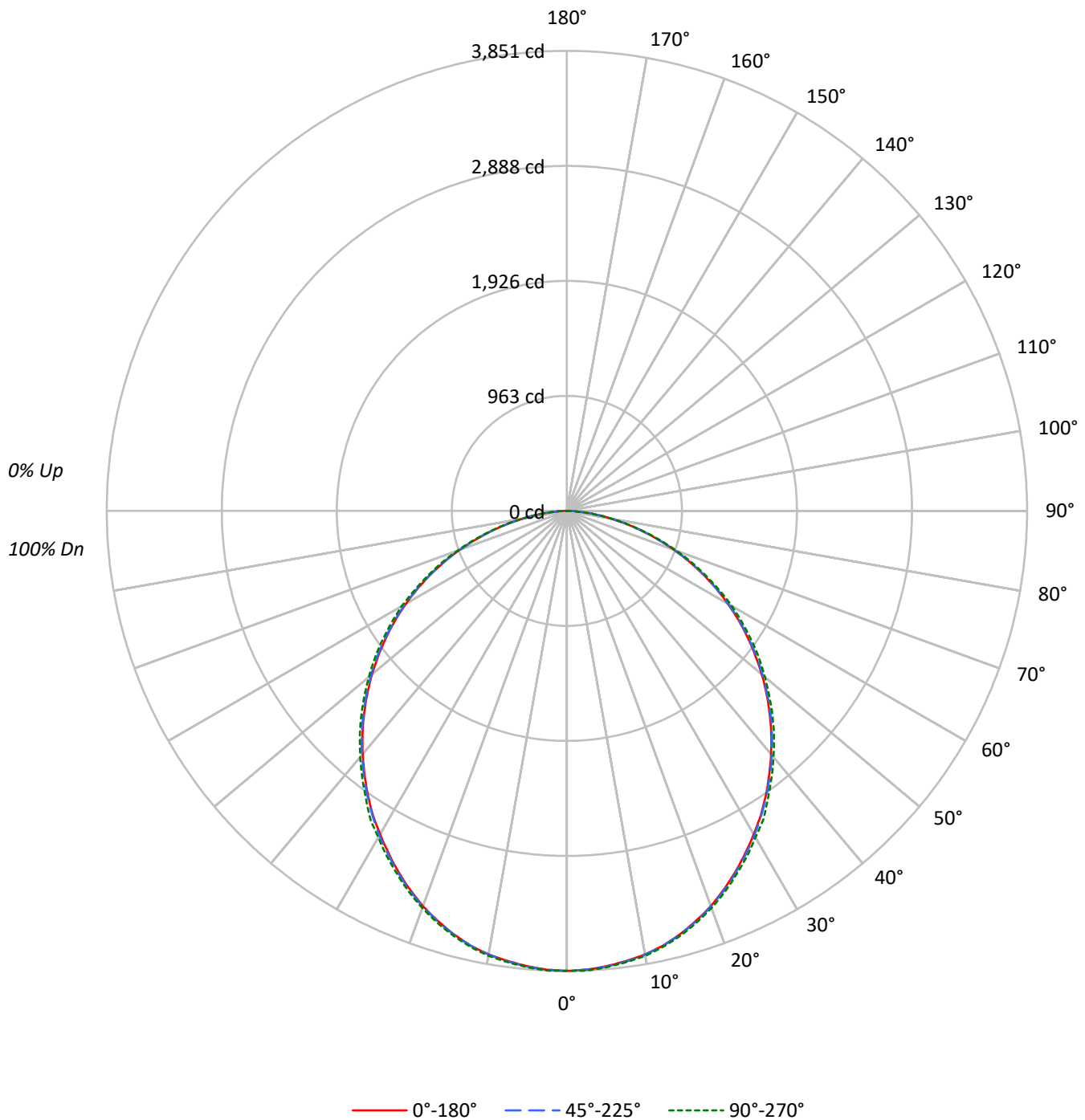
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10404.4 lumens
Efficiency: N/A
Efficacy: 104.1 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): 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

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°	10362	10362	10362
5°	10334	10343	10356
10°	10301	10303	10334
15°	10216	10223	10252
20°	10084	10095	10132
25°	9901	9925	9970
30°	9715	9748	9807
35°	9538	9562	9637
40°	9337	9367	9451
45°	9132	9171	9265
50°	8911	8951	9054
55°	8658	8700	8842
60°	8371	8405	8594
65°	8005	8031	8183
70°	7514	7520	7684
75°	6830	6805	6962
80°	5869	5844	5943
85°	4554	4480	4505

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.9	3.5
10°-20°	1035.0	9.9
20°-30°	1540.8	14.8
30°-40°	1822.1	17.5
40°-50°	1860.1	17.9
50°-60°	1660.1	16.0
60°-70°	1250.4	12.0
70°-80°	697.3	6.7
80°-90°	174.7	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°	2939.6	28.3
0°-40°	4761.8	45.8
0°-60°	8282.0	79.6
0°-90°	10404.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10404.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3850	3850	3850	3850	3850	
5°	3826	3833	3829	3830	3834	363
15°	3667	3671	3670	3673	3680	1034
25°	3335	3339	3343	3351	3358	1536
35°	2903	2900	2911	2922	2934	1816
45°	2400	2399	2410	2422	2435	1851
55°	1846	1843	1854	1867	1885	1650
65°	1257	1252	1261	1272	1285	1243
75°	657	651	654	658	670	696
85°	148	144	145	144	146	177
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3850.5	3850.5	3850.5	3850.5	3850.5
2.5°	3844.1	3850.5	3842.5	3844.1	3851.3
5°	3825.8	3832.9	3828.9	3829.7	3833.7
7.5°	3800.2	3809.8	3804.2	3805.8	3809.8
10°	3770.0	3777.1	3770.7	3774.7	3781.9
12.5°	3726.9	3730.1	3726.9	3728.5	3736.5
15°	3667.1	3671.1	3669.5	3672.7	3679.9
17.5°	3597.0	3601.7	3600.9	3607.3	3612.9
20°	3521.2	3522.0	3525.2	3531.6	3538.0
22.5°	3431.9	3434.3	3437.5	3446.3	3452.7
25°	3334.7	3338.7	3342.7	3351.4	3357.8
27.5°	3231.8	3235.8	3241.4	3251.0	3261.3
30°	3126.6	3126.6	3137.0	3146.5	3156.1
32.5°	3020.6	3016.6	3026.2	3038.1	3061.2
35°	2903.4	2900.2	2910.6	2921.7	2933.7
37.5°	2781.4	2779.0	2791.0	2802.9	2814.1
40°	2657.9	2654.7	2666.6	2678.6	2690.5
42.5°	2531.1	2529.5	2540.7	2552.6	2565.4
45°	2399.6	2398.8	2409.9	2421.9	2434.6
47.5°	2265.6	2264.0	2275.2	2288.0	2299.1
50°	2128.5	2126.9	2138.1	2150.8	2162.8
52.5°	1987.4	1987.4	1997.8	2008.9	2027.3
55°	1845.5	1843.1	1854.3	1867.0	1884.6
57.5°	1702.0	1698.8	1709.2	1721.9	1737.9
60°	1555.3	1552.1	1561.7	1574.5	1596.8
62.5°	1407.1	1402.3	1411.8	1423.8	1437.3
65°	1257.2	1252.4	1261.2	1272.3	1285.1
67.5°	1106.5	1100.9	1109.7	1119.3	1131.2
70°	955.0	949.5	955.8	965.4	976.6
72.5°	804.4	798.8	804.4	808.4	821.9
75°	656.9	651.3	654.5	657.7	669.6
77.5°	513.4	507.8	514.2	515.8	523.0
80°	378.7	373.1	377.1	377.9	383.5
82.5°	255.9	251.1	256.7	252.7	257.5
85°	147.5	143.5	145.1	143.5	145.9
87.5°	58.2	55.0	55.8	52.6	52.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)