

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: P834504

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834504
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-LD4-3HI-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

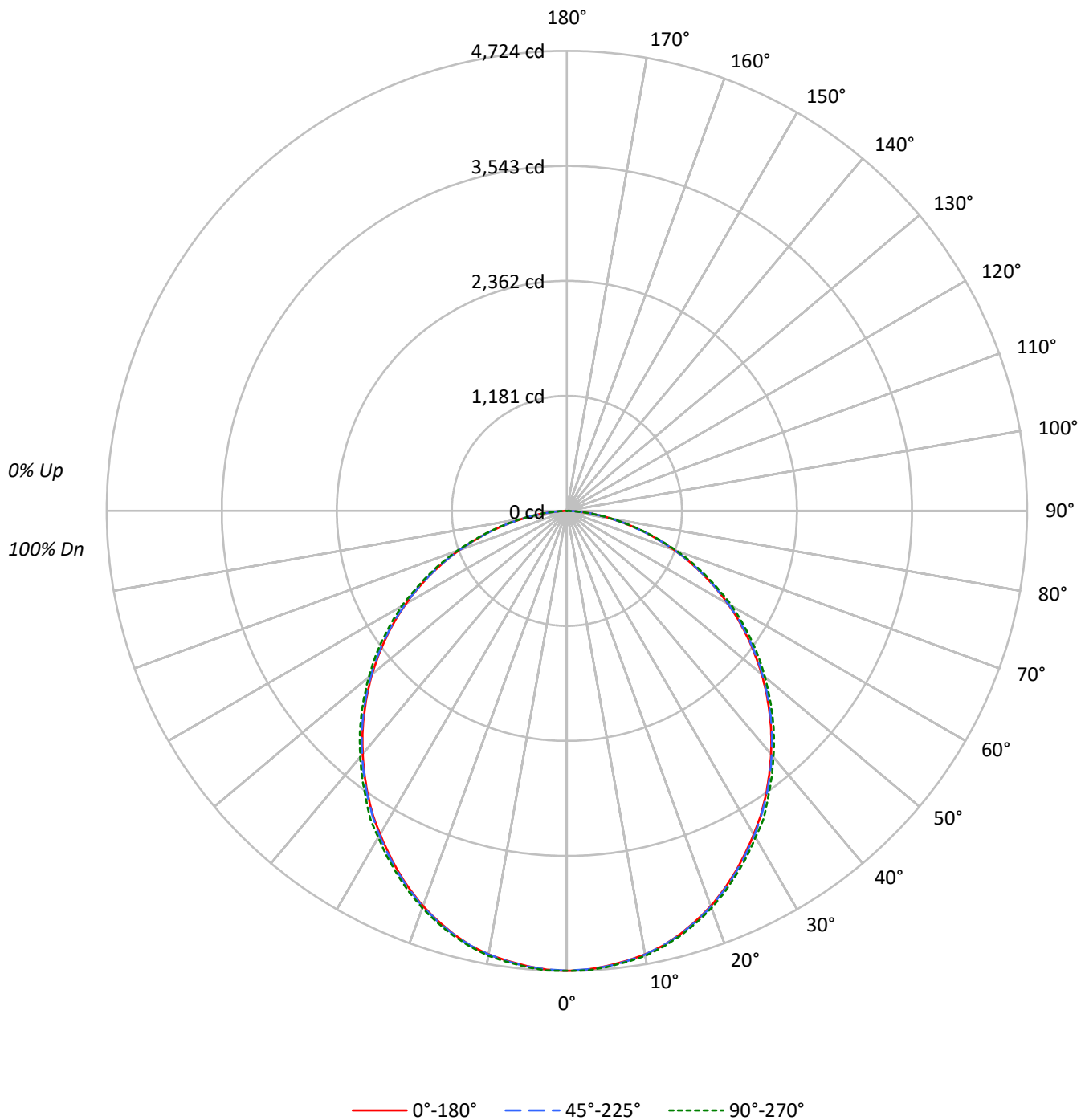
Lumens per Lamp: N/A
Luminaire Lumens: 12761.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	12709	12709	12709
5°	12676	12686	12702
10°	12635	12638	12675
15°	12531	12539	12574
20°	12368	12382	12427
25°	12144	12174	12229
30°	11916	11956	12029
35°	11699	11728	11821
40°	11452	11490	11593
45°	11201	11249	11364
50°	10930	10979	11106
55°	10620	10671	10845
60°	10267	10309	10541
65°	9819	9850	10036
70°	9216	9224	9424
75°	8377	8347	8540
80°	7198	7167	7288
85°	5585	5496	5524

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.3	3.5
10°-20°	1269.5	9.9
20°-30°	1889.9	14.8
30°-40°	2235.0	17.5
40°-50°	2281.6	17.9
50°-60°	2036.2	16.0
60°-70°	1533.6	12.0
70°-80°	855.3	6.7
80°-90°	214.3	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°	3605.7	28.3
0°-40°	5840.6	45.8
0°-60°	10158.4	79.6
0°-90°	12761.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12761.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4723	4723	4723	4723	4723	
5°	4692	4701	4696	4697	4702	446
15°	4498	4503	4501	4505	4514	1268
25°	4090	4095	4100	4111	4118	1884
35°	3561	3557	3570	3584	3598	2227
45°	2943	2942	2956	2971	2986	2270
55°	2264	2261	2274	2290	2312	2023
65°	1542	1536	1547	1561	1576	1525
75°	806	799	803	807	821	854
85°	181	176	178	176	179	217
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4722.8	4722.8	4722.8	4722.8	4722.8
2.5°	4715.0	4722.8	4713.0	4715.0	4723.8
5°	4692.5	4701.3	4696.4	4697.4	4702.3
7.5°	4661.2	4673.0	4666.1	4668.1	4673.0
10°	4624.1	4632.9	4625.0	4629.9	4638.7
12.5°	4571.3	4575.2	4571.3	4573.2	4583.0
15°	4497.9	4502.8	4500.9	4504.8	4513.6
17.5°	4411.9	4417.7	4416.8	4424.6	4431.4
20°	4319.0	4320.0	4323.9	4331.7	4339.5
22.5°	4209.5	4212.4	4216.3	4227.1	4234.9
25°	4090.2	4095.1	4100.0	4110.7	4118.5
27.5°	3964.0	3968.9	3975.8	3987.5	4000.2
30°	3835.0	3835.0	3847.7	3859.4	3871.1
32.5°	3704.9	3700.0	3711.8	3726.4	3754.8
35°	3561.2	3557.3	3570.0	3583.7	3598.3
37.5°	3411.6	3408.6	3423.3	3438.0	3451.7
40°	3260.0	3256.1	3270.8	3285.4	3300.1
42.5°	3104.5	3102.6	3116.3	3130.9	3146.6
45°	2943.2	2942.2	2955.9	2970.6	2986.2
47.5°	2778.9	2777.0	2790.7	2806.3	2820.0
50°	2610.8	2608.8	2622.5	2638.1	2652.8
52.5°	2437.7	2437.7	2450.4	2464.1	2486.6
55°	2263.6	2260.7	2274.4	2290.0	2311.5
57.5°	2087.6	2083.7	2096.4	2112.1	2131.6
60°	1907.7	1903.8	1915.5	1931.2	1958.6
62.5°	1725.8	1720.0	1731.7	1746.4	1763.0
65°	1542.0	1536.1	1546.9	1560.6	1576.2
67.5°	1357.2	1350.4	1361.1	1372.8	1387.5
70°	1171.4	1164.6	1172.4	1184.1	1197.8
72.5°	986.6	979.8	986.6	991.5	1008.1
75°	805.7	798.9	802.8	806.7	821.4
77.5°	629.7	622.9	630.7	632.6	641.4
80°	464.5	457.6	462.5	463.5	470.3
82.5°	313.9	308.0	314.9	310.0	315.8
85°	180.9	176.0	178.0	176.0	178.9
87.5°	71.4	67.5	68.4	64.5	64.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)