

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: P835125

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835125
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3HI-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

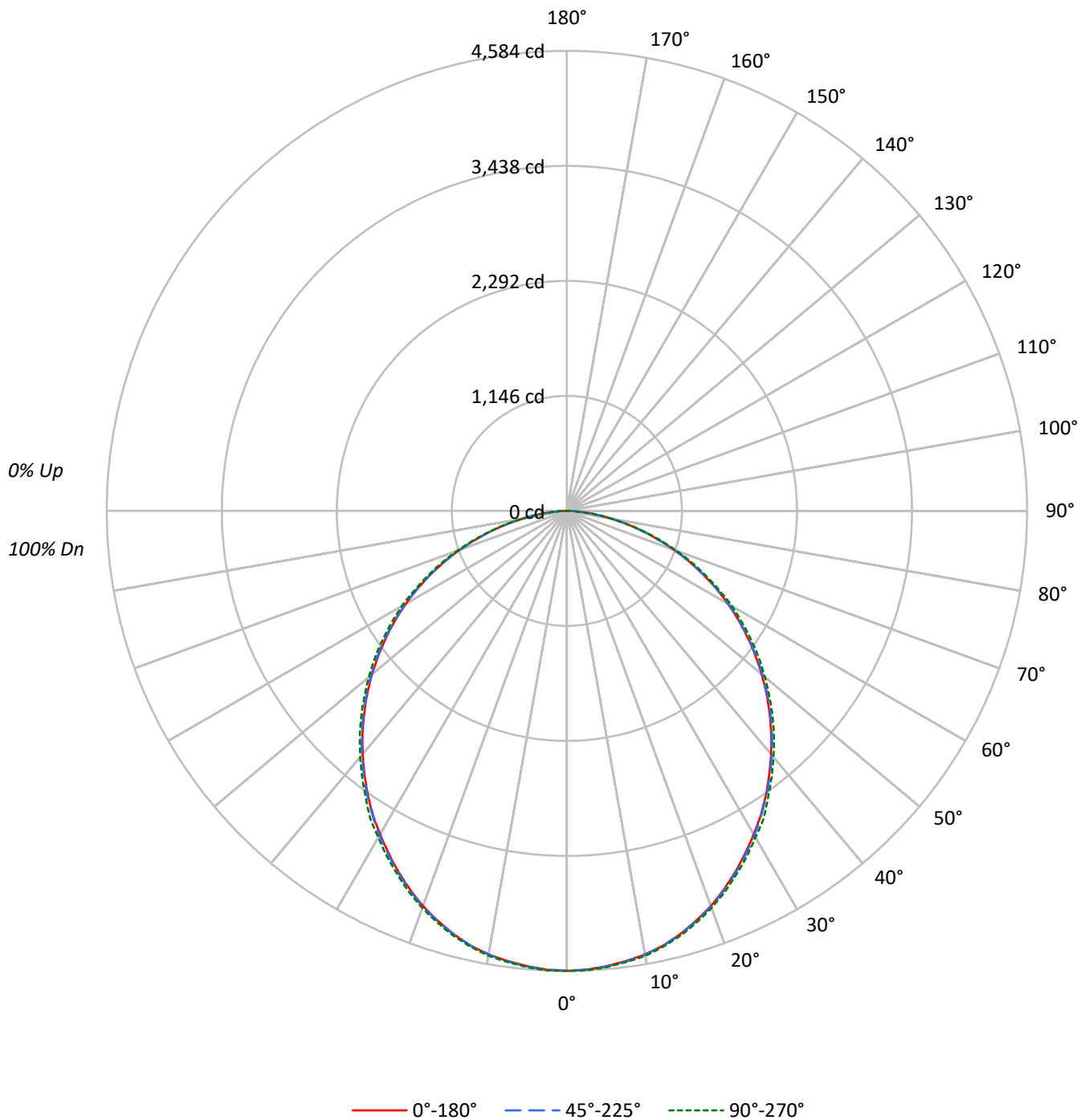
Lumens per Lamp: N/A
Luminaire Lumens: 12383.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

1121 Highway 74 South

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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°	6166	6166	6166
5°	6150	6155	6163
10°	6130	6131	6150
15°	6080	6083	6101
20°	6001	6007	6029
25°	5892	5906	5933
30°	5781	5801	5836
35°	5676	5690	5735
40°	5556	5574	5624
45°	5434	5458	5514
50°	5303	5327	5388
55°	5153	5177	5262
60°	4981	5002	5114
65°	4764	4779	4869
70°	4472	4475	4572
75°	4064	4050	4143
80°	3492	3477	3536
85°	2709	2666	2680

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.0	3.5
10°-20°	1231.8	9.9
20°-30°	1833.8	14.8
30°-40°	2168.7	17.5
40°-50°	2213.9	17.9
50°-60°	1975.8	16.0
60°-70°	1488.1	12.0
70°-80°	829.9	6.7
80°-90°	207.9	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°	3498.7	28.3
0°-40°	5667.3	45.8
0°-60°	9857.0	79.6
0°-90°	12383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4583	4583	4583	4583	4583	
5°	4553	4562	4557	4558	4563	433
15°	4364	4369	4367	4371	4380	1230
25°	3969	3974	3978	3989	3996	1828
35°	3456	3452	3464	3477	3492	2161
45°	2856	2855	2868	2882	2898	2203
55°	2196	2194	2207	2222	2243	1963
65°	1496	1491	1501	1514	1530	1480
75°	782	775	779	783	797	829
85°	176	171	173	171	174	211
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4582.7	4582.7	4582.7	4582.7	4582.7
2.5°	4575.1	4582.7	4573.2	4575.1	4583.6
5°	4553.3	4561.8	4557.1	4558.0	4562.8
7.5°	4522.9	4534.3	4527.7	4529.6	4534.3
10°	4486.9	4495.4	4487.8	4492.6	4501.1
12.5°	4435.6	4439.4	4435.6	4437.5	4447.0
15°	4364.5	4369.2	4367.3	4371.1	4379.7
17.5°	4281.0	4286.7	4285.7	4293.3	4300.0
20°	4190.8	4191.8	4195.6	4203.2	4210.8
22.5°	4084.6	4087.4	4091.2	4101.7	4109.2
25°	3968.8	3973.6	3978.3	3988.7	3996.3
27.5°	3846.4	3851.2	3857.8	3869.2	3881.5
30°	3721.2	3721.2	3733.5	3744.9	3756.3
32.5°	3595.0	3590.3	3601.6	3615.9	3643.4
35°	3455.5	3451.7	3464.1	3477.3	3491.6
37.5°	3310.4	3307.5	3321.7	3336.0	3349.3
40°	3163.3	3159.5	3173.7	3188.0	3202.2
42.5°	3012.4	3010.5	3023.8	3038.1	3053.2
45°	2855.9	2854.9	2868.2	2882.4	2897.6
47.5°	2696.5	2694.6	2707.9	2723.0	2736.3
50°	2533.3	2531.4	2544.7	2559.9	2574.1
52.5°	2365.4	2365.4	2377.7	2391.0	2412.8
55°	2196.5	2193.6	2206.9	2222.1	2243.0
57.5°	2025.7	2021.9	2034.2	2049.4	2068.4
60°	1851.1	1847.3	1858.7	1873.9	1900.4
62.5°	1674.6	1668.9	1680.3	1694.6	1710.7
65°	1496.3	1490.6	1501.0	1514.3	1529.5
67.5°	1316.9	1310.3	1320.7	1332.1	1346.3
70°	1136.7	1130.0	1137.6	1149.0	1162.3
72.5°	957.3	950.7	957.3	962.1	978.2
75°	781.8	775.2	779.0	782.8	797.0
77.5°	611.0	604.4	612.0	613.9	622.4
80°	450.7	444.0	448.8	449.7	456.4
82.5°	304.6	298.9	305.5	300.8	306.5
85°	175.5	170.8	172.7	170.8	173.6
87.5°	69.3	65.5	66.4	62.6	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)