

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: P834981

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834981
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-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

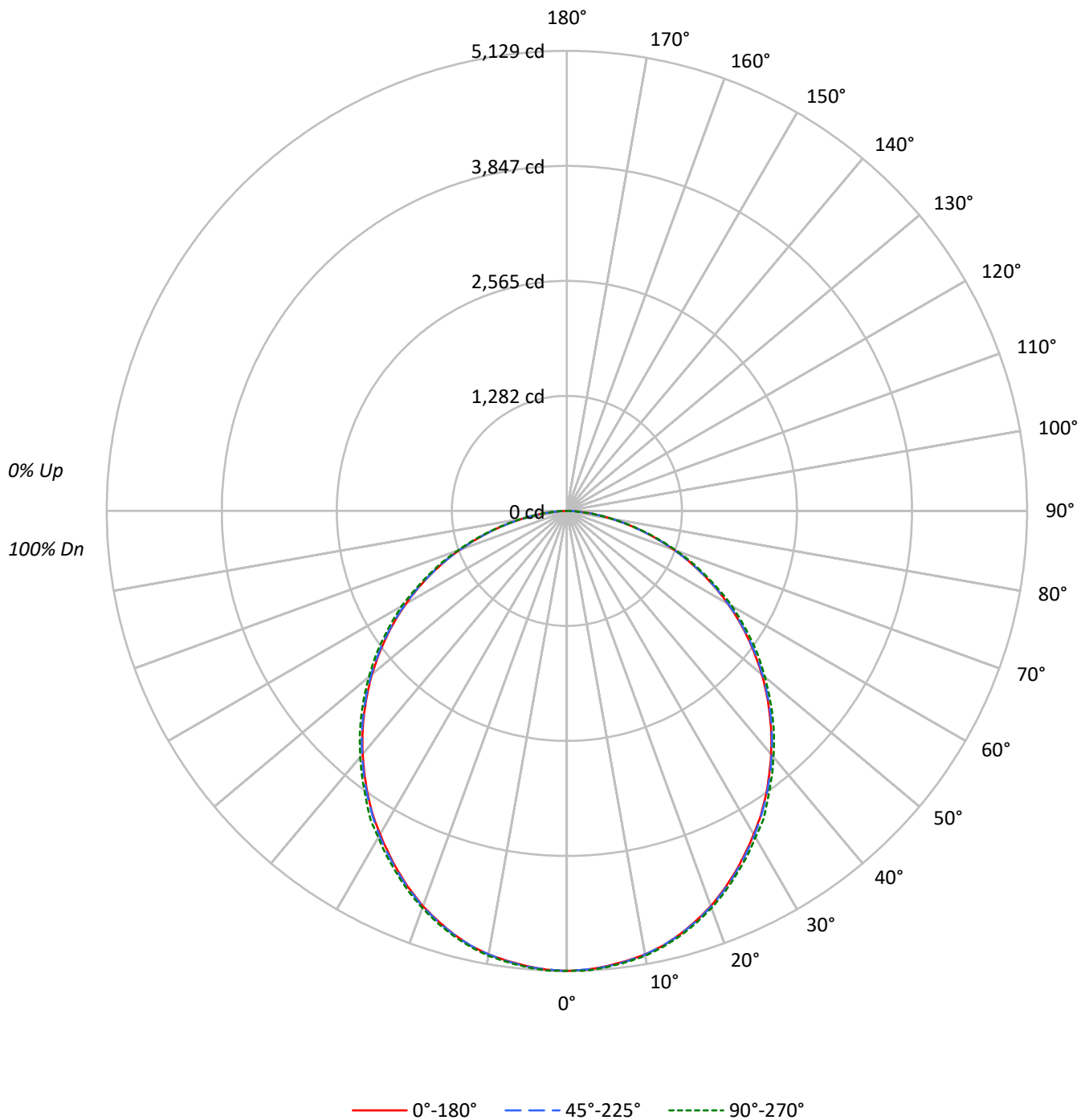
Lumens per Lamp: N/A
Luminaire Lumens: 13857.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6900	6900	6900
5°	6882	6888	6896
10°	6860	6861	6882
15°	6803	6808	6827
20°	6715	6723	6747
25°	6593	6609	6639
30°	6470	6491	6531
35°	6352	6367	6418
40°	6218	6238	6294
45°	6081	6107	6170
50°	5934	5961	6029
55°	5766	5793	5888
60°	5574	5597	5723
65°	5331	5348	5449
70°	5004	5008	5116
75°	4548	4532	4637
80°	3908	3891	3957
85°	3032	2983	3000

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	3.5
10°-20°	1378.5	9.9
20°-30°	2052.1	14.8
30°-40°	2426.8	17.5
40°-50°	2477.4	17.9
50°-60°	2211.0	16.0
60°-70°	1665.3	12.0
70°-80°	928.7	6.7
80°-90°	232.7	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°	3915.2	28.3
0°-40°	6342.0	45.8
0°-60°	11030.4	79.6
0°-90°	13857.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13857.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5128	5128	5128	5128	5128	
5°	5095	5105	5100	5101	5106	484
15°	4884	4889	4887	4892	4901	1377
25°	4441	4447	4452	4464	4472	2046
35°	3867	3863	3876	3891	3907	2418
45°	3196	3195	3210	3226	3243	2465
55°	2458	2455	2470	2487	2510	2197
65°	1674	1668	1680	1695	1712	1656
75°	875	867	872	876	892	927
85°	196	191	193	191	194	236
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5128.3	5128.3	5128.3	5128.3	5128.3
2.5°	5119.8	5128.3	5117.6	5119.8	5129.3
5°	5095.3	5104.9	5099.6	5100.6	5106.0
7.5°	5061.4	5074.1	5066.7	5068.8	5074.1
10°	5021.0	5030.6	5022.1	5027.4	5036.9
12.5°	4963.7	4967.9	4963.7	4965.8	4976.4
15°	4884.0	4889.4	4887.2	4891.5	4901.0
17.5°	4790.6	4797.0	4795.9	4804.4	4811.9
20°	4689.7	4690.8	4695.1	4703.6	4712.0
22.5°	4570.8	4574.0	4578.3	4589.9	4598.4
25°	4441.3	4446.6	4451.9	4463.6	4472.1
27.5°	4304.3	4309.6	4317.1	4329.8	4343.6
30°	4164.2	4164.2	4178.0	4190.7	4203.5
32.5°	4023.0	4017.7	4030.4	4046.3	4077.1
35°	3866.9	3862.6	3876.4	3891.3	3907.2
37.5°	3704.4	3701.3	3717.2	3733.1	3748.0
40°	3539.9	3535.6	3551.6	3567.5	3583.4
42.5°	3371.1	3368.9	3383.8	3399.7	3416.7
45°	3195.9	3194.8	3209.7	3225.6	3242.6
47.5°	3017.5	3015.4	3030.2	3047.2	3062.1
50°	2834.9	2832.7	2847.6	2864.6	2880.5
52.5°	2646.9	2646.9	2660.7	2675.6	2700.0
55°	2458.0	2454.8	2469.6	2486.6	2510.0
57.5°	2266.8	2262.6	2276.4	2293.4	2314.6
60°	2071.5	2067.2	2080.0	2097.0	2126.7
62.5°	1874.0	1867.6	1880.4	1896.3	1914.3
65°	1674.4	1668.0	1679.7	1694.6	1711.5
67.5°	1473.7	1466.3	1478.0	1490.7	1506.6
70°	1272.0	1264.5	1273.0	1285.8	1300.6
72.5°	1071.3	1063.9	1071.3	1076.6	1094.7
75°	874.9	867.4	871.7	875.9	891.9
77.5°	683.8	676.3	684.8	687.0	696.5
80°	504.3	496.9	502.2	503.3	510.7
82.5°	340.8	334.5	341.9	336.6	342.9
85°	196.4	191.1	193.2	191.1	194.3
87.5°	77.5	73.3	74.3	70.1	70.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)