

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: P835008

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835008
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-LD4-6HI-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

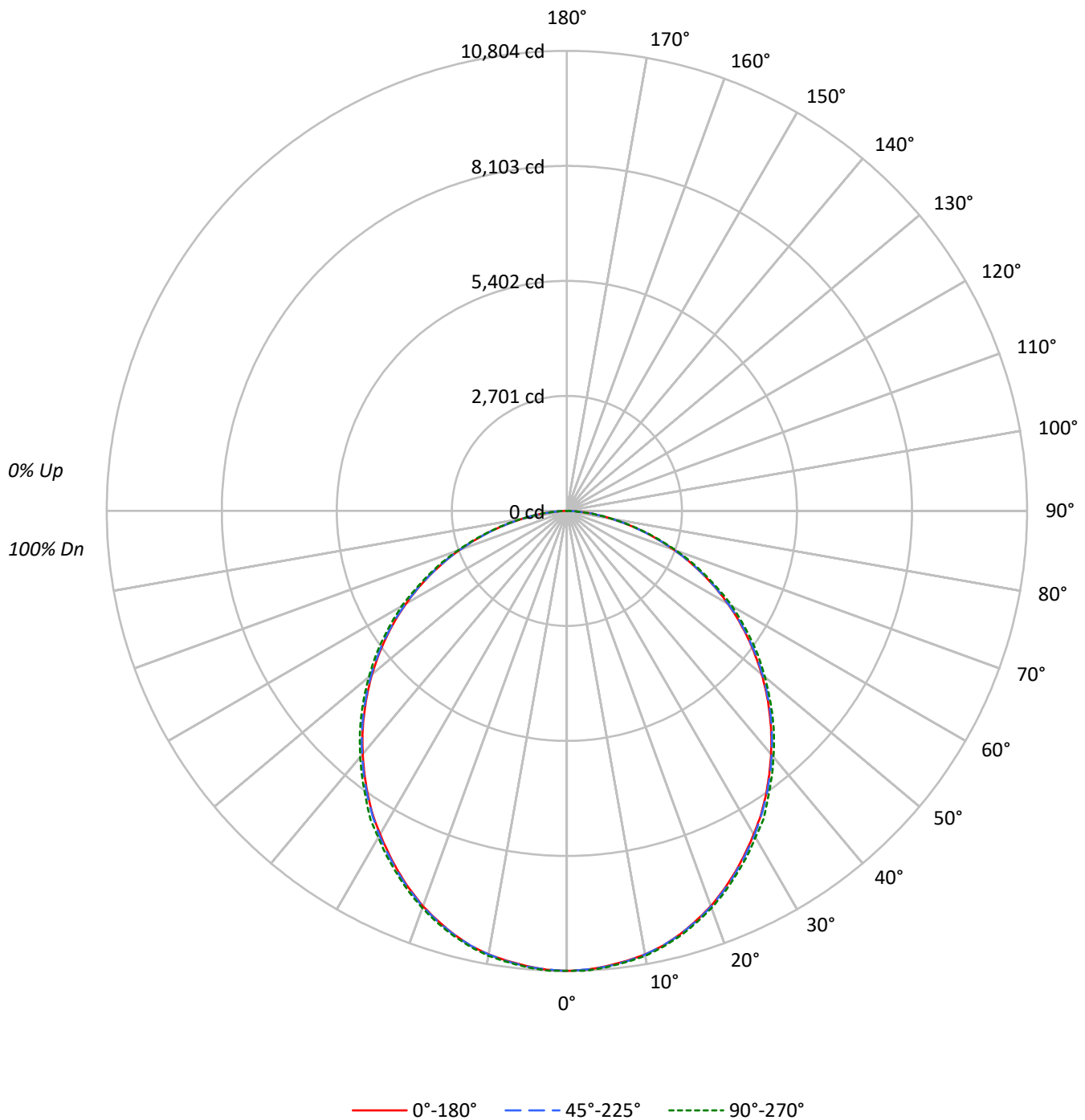
Lumens per Lamp: N/A
Luminaire Lumens: 29188.4 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	14534	14534	14534
5°	14496	14508	14526
10°	14450	14453	14495
15°	14330	14340	14380
20°	14144	14160	14212
25°	13888	13922	13985
30°	13628	13673	13756
35°	13379	13412	13518
40°	13096	13140	13257
45°	12809	12865	12996
50°	12499	12555	12701
55°	12145	12203	12402
60°	11742	11790	12055
65°	11229	11264	11478
70°	10540	10549	10778
75°	9580	9545	9766
80°	8231	8196	8335
85°	6387	6283	6319

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1020.7	3.5
10°-20°	2903.6	9.9
20°-30°	4322.5	14.8
30°-40°	5111.8	17.5
40°-50°	5218.4	17.9
50°-60°	4657.2	16.0
60°-70°	3507.8	12.0
70°-80°	1956.2	6.7
80°-90°	490.1	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°	8246.9	28.3
0°-40°	13358.7	45.8
0°-60°	23234.3	79.6
0°-90°	29188.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29188.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10802	10802	10802	10802	10802	
5°	10733	10753	10742	10744	10755	###
15°	10288	10299	10294	10303	10324	2900
25°	9355	9366	9377	9402	9420	4310
35°	8145	8136	8165	8197	8230	5094
45°	6732	6730	6761	6794	6830	5193
55°	5177	5171	5202	5238	5287	4628
65°	3527	3514	3538	3569	3605	3488
75°	1843	1827	1836	1845	1879	1954
85°	414	403	407	403	409	497
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10802.1	10802.1	10802.1	10802.1	10802.1
2.5°	10784.2	10802.1	10779.7	10784.2	10804.3
5°	10732.7	10752.9	10741.7	10743.9	10755.1
7.5°	10661.2	10688.0	10672.3	10676.8	10688.0
10°	10576.2	10596.3	10578.4	10589.6	10609.7
12.5°	10455.4	10464.4	10455.4	10459.9	10482.2
15°	10287.7	10298.9	10294.4	10303.3	10323.5
17.5°	10090.9	10104.3	10102.1	10119.9	10135.6
20°	9878.4	9880.6	9889.6	9907.5	9925.4
22.5°	9627.9	9634.6	9643.6	9668.2	9686.1
25°	9355.1	9366.3	9377.4	9402.0	9419.9
27.5°	9066.6	9077.8	9093.4	9120.3	9149.3
30°	8771.4	8771.4	8800.4	8827.3	8854.1
32.5°	8473.9	8462.7	8489.6	8523.1	8588.0
35°	8145.2	8136.2	8165.3	8196.6	8230.1
37.5°	7803.0	7796.3	7829.8	7863.4	7894.7
40°	7456.3	7447.4	7480.9	7514.5	7548.0
42.5°	7100.7	7096.3	7127.6	7161.1	7196.9
45°	6731.7	6729.5	6760.8	6794.3	6830.1
47.5°	6356.0	6351.5	6382.8	6418.6	6449.9
50°	5971.3	5966.9	5998.2	6033.9	6067.5
52.5°	5575.5	5575.5	5604.5	5635.9	5687.3
55°	5177.4	5170.7	5202.0	5237.8	5287.0
57.5°	4774.8	4765.9	4795.0	4830.7	4875.5
60°	4363.3	4354.4	4381.2	4417.0	4479.6
62.5°	3947.3	3933.9	3960.8	3994.3	4032.3
65°	3526.9	3513.5	3538.1	3569.4	3605.2
67.5°	3104.2	3088.5	3113.1	3140.0	3173.5
70°	2679.3	2663.6	2681.5	2708.3	2739.7
72.5°	2256.6	2240.9	2256.6	2267.8	2305.8
75°	1842.8	1827.2	1836.1	1845.1	1878.6
77.5°	1440.3	1424.6	1442.5	1447.0	1467.1
80°	1062.3	1046.7	1057.8	1060.1	1075.7
82.5°	717.9	704.5	720.1	709.0	722.4
85°	413.7	402.6	407.0	402.6	409.3
87.5°	163.3	154.3	156.6	147.6	147.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)