

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: P835002

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835002
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-LD4-4HI-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

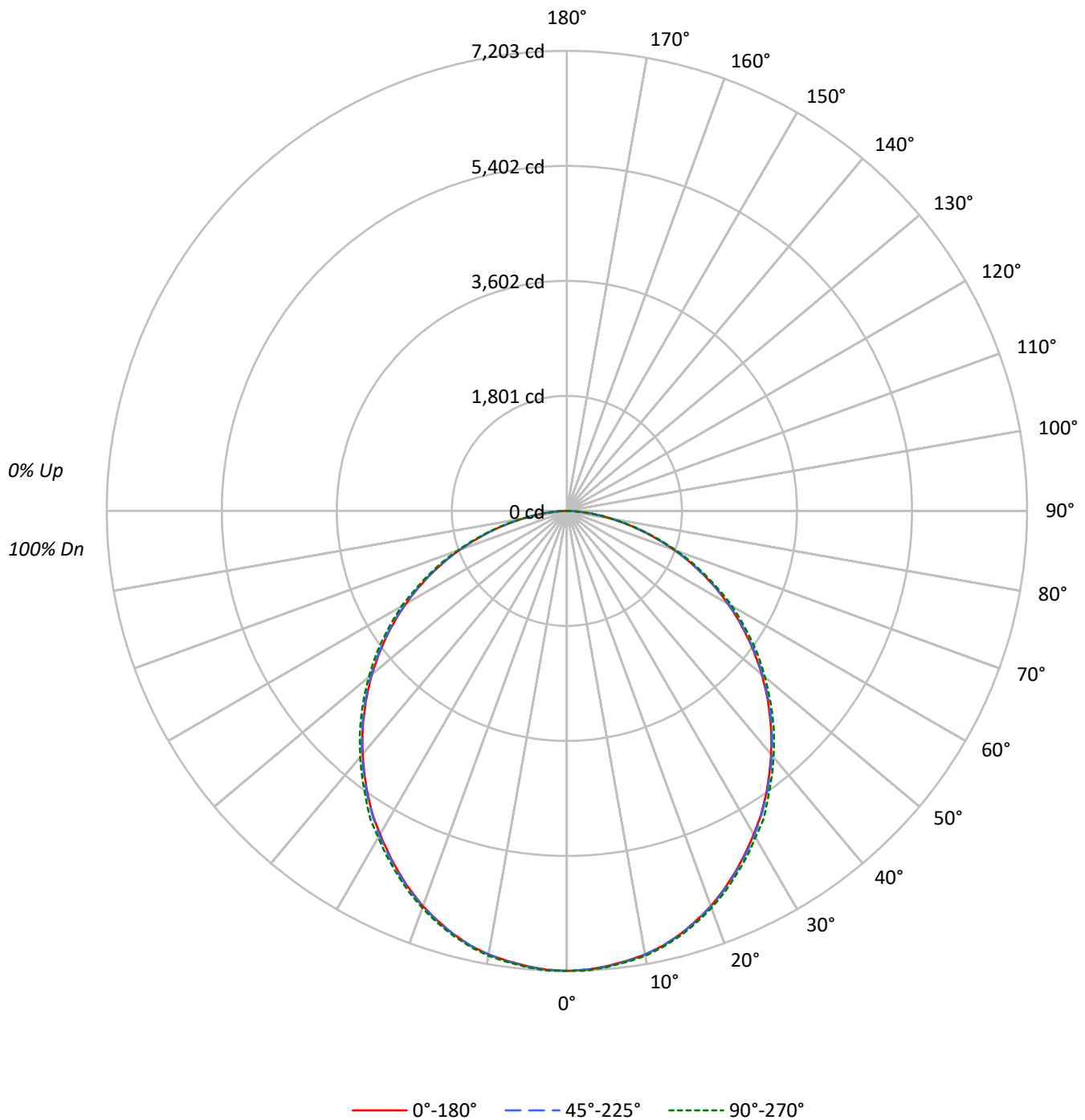
Lumens per Lamp: N/A
Luminaire Lumens: 19459.6 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	9690	9690	9690
5°	9664	9672	9684
10°	9633	9635	9664
15°	9554	9560	9587
20°	9430	9441	9475
25°	9259	9281	9323
30°	9085	9115	9171
35°	8919	8941	9012
40°	8731	8760	8839
45°	8540	8577	8665
50°	8333	8371	8467
55°	8097	8135	8268
60°	7828	7860	8037
65°	7486	7510	7652
70°	7027	7033	7185
75°	6387	6364	6511
80°	5487	5465	5557
85°	4258	4190	4213

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.5	3.5
10°-20°	1935.8	9.9
20°-30°	2881.8	14.8
30°-40°	3408.0	17.5
40°-50°	3479.1	17.9
50°-60°	3104.9	16.0
60°-70°	2338.6	12.0
70°-80°	1304.2	6.7
80°-90°	326.7	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°	5498.1	28.3
0°-40°	8906.1	45.8
0°-60°	15490.1	79.6
0°-90°	19459.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19459.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7202	7202	7202	7202	7202	
5°	7155	7169	7161	7163	7170	680
15°	6859	6866	6863	6869	6882	1933
25°	6237	6244	6252	6268	6280	2873
35°	5430	5424	5444	5465	5487	3396
45°	4488	4486	4507	4530	4554	3462
55°	3452	3447	3468	3492	3525	3085
65°	2351	2342	2359	2380	2404	2326
75°	1229	1218	1224	1230	1252	1302
85°	276	268	271	268	273	331
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7201.6	7201.6	7201.6	7201.6	7201.6
2.5°	7189.7	7201.6	7186.7	7189.7	7203.1
5°	7155.4	7168.8	7161.4	7162.8	7170.3
7.5°	7107.7	7125.6	7115.1	7118.1	7125.6
10°	7051.0	7064.4	7052.5	7060.0	7073.4
12.5°	6970.5	6976.5	6970.5	6973.5	6988.4
15°	6858.7	6866.1	6863.1	6869.1	6882.5
17.5°	6727.5	6736.4	6734.9	6746.8	6757.3
20°	6585.8	6587.3	6593.3	6605.2	6617.1
22.5°	6418.8	6423.3	6429.3	6445.7	6457.6
25°	6236.9	6244.4	6251.8	6268.2	6280.2
27.5°	6044.6	6052.0	6062.5	6080.4	6099.7
30°	5847.8	5847.8	5867.1	5885.0	5902.9
32.5°	5649.5	5642.0	5659.9	5682.3	5725.5
35°	5430.3	5424.3	5443.7	5464.6	5486.9
37.5°	5202.2	5197.7	5220.0	5242.4	5263.3
40°	4971.0	4965.1	4987.4	5009.8	5032.2
42.5°	4734.0	4731.0	4751.9	4774.2	4798.1
45°	4488.0	4486.5	4507.3	4529.7	4553.6
47.5°	4237.5	4234.5	4255.4	4279.2	4300.1
50°	3981.0	3978.0	3998.9	4022.8	4045.1
52.5°	3717.1	3717.1	3736.5	3757.4	3791.7
55°	3451.7	3447.2	3468.1	3492.0	3524.8
57.5°	3183.3	3177.4	3196.7	3220.6	3250.4
60°	2909.0	2903.0	2920.9	2944.8	2986.5
62.5°	2631.6	2622.7	2640.6	2663.0	2688.3
65°	2351.3	2342.4	2358.8	2379.7	2403.5
67.5°	2069.5	2059.1	2075.5	2093.4	2115.8
70°	1786.2	1775.8	1787.7	1805.6	1826.5
72.5°	1504.4	1494.0	1504.4	1511.9	1537.2
75°	1228.6	1218.2	1224.1	1230.1	1252.5
77.5°	960.2	949.8	961.7	964.7	978.1
80°	708.2	697.8	705.3	706.7	717.2
82.5°	478.6	469.7	480.1	472.7	481.6
85°	275.8	268.4	271.4	268.4	272.9
87.5°	108.8	102.9	104.4	98.4	98.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)