

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: P835005

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835005
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-LD4-5HI-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

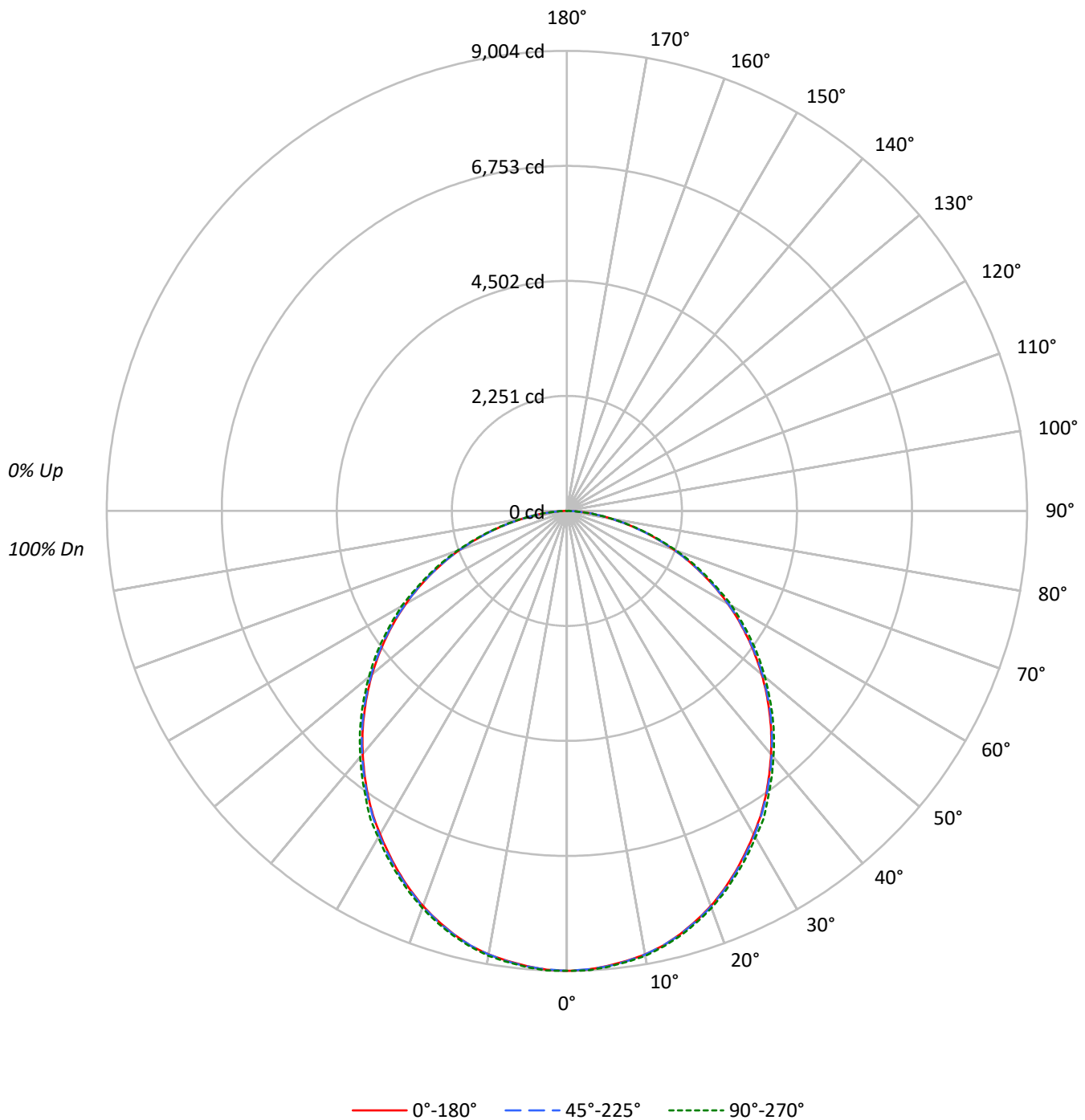
Lumens per Lamp: N/A
Luminaire Lumens: 24324.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	12112	12112	12112
5°	12080	12090	12105
10°	12042	12044	12080
15°	11942	11950	11984
20°	11787	11800	11843
25°	11574	11601	11654
30°	11356	11394	11464
35°	11149	11177	11265
40°	10914	10950	11048
45°	10674	10721	10830
50°	10416	10463	10584
55°	10121	10169	10335
60°	9785	9825	10046
65°	9357	9387	9565
70°	8784	8791	8982
75°	7983	7954	8138
80°	6860	6830	6946
85°	5323	5236	5266

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.6	3.5
10°-20°	2419.7	9.9
20°-30°	3602.2	14.8
30°-40°	4259.9	17.5
40°-50°	4348.8	17.9
50°-60°	3881.0	16.0
60°-70°	2923.2	12.0
70°-80°	1630.2	6.7
80°-90°	408.4	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°	6872.5	28.3
0°-40°	11132.4	45.8
0°-60°	19362.2	79.6
0°-90°	24324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9002	9002	9002	9002	9002	
5°	8944	8961	8952	8953	8963	850
15°	8573	8582	8579	8586	8603	2416
25°	7796	7805	7815	7835	7850	3592
35°	6788	6780	6804	6831	6858	4245
45°	5610	5608	5634	5662	5692	4327
55°	4314	4309	4335	4365	4406	3857
65°	2939	2928	2948	2974	3004	2907
75°	1536	1523	1530	1538	1566	1628
85°	345	336	339	336	341	414
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9001.8	9001.8	9001.8	9001.8	9001.8
2.5°	8986.9	9001.8	8983.2	8986.9	9003.7
5°	8944.1	8960.8	8951.5	8953.4	8962.7
7.5°	8884.4	8906.8	8893.7	8897.5	8906.8
10°	8813.6	8830.4	8815.5	8824.8	8841.6
12.5°	8713.0	8720.4	8713.0	8716.7	8735.3
15°	8573.2	8582.5	8578.8	8586.2	8603.0
17.5°	8409.2	8420.4	8418.5	8433.4	8446.4
20°	8232.1	8234.0	8241.4	8256.3	8271.3
22.5°	8023.4	8029.0	8036.4	8056.9	8071.8
25°	7796.0	7805.3	7814.6	7835.1	7850.0
27.5°	7555.6	7564.9	7577.9	7600.3	7624.5
30°	7309.6	7309.6	7333.8	7356.2	7378.5
32.5°	7061.7	7052.4	7074.7	7102.7	7156.7
35°	6787.7	6780.3	6804.5	6830.6	6858.5
37.5°	6502.6	6497.0	6524.9	6552.9	6579.0
40°	6213.7	6206.2	6234.2	6262.1	6290.1
42.5°	5917.4	5913.6	5939.7	5967.7	5997.5
45°	5609.8	5608.0	5634.1	5662.0	5691.8
47.5°	5296.7	5293.0	5319.1	5348.9	5375.0
50°	4976.2	4972.4	4998.5	5028.4	5056.3
52.5°	4646.3	4646.3	4670.5	4696.6	4739.5
55°	4314.5	4309.0	4335.0	4364.9	4405.9
57.5°	3979.1	3971.6	3995.8	4025.7	4062.9
60°	3636.1	3628.7	3651.1	3680.9	3733.1
62.5°	3289.5	3278.3	3300.7	3328.6	3360.3
65°	2939.1	2927.9	2948.4	2974.5	3004.3
67.5°	2586.9	2573.8	2594.3	2616.7	2644.6
70°	2232.8	2219.7	2234.6	2257.0	2283.1
72.5°	1880.5	1867.5	1880.5	1889.8	1921.5
75°	1535.7	1522.7	1530.1	1537.6	1565.5
77.5°	1200.2	1187.2	1202.1	1205.8	1222.6
80°	885.3	872.2	881.5	883.4	896.5
82.5°	598.3	587.1	600.1	590.8	602.0
85°	344.8	335.5	339.2	335.5	341.1
87.5°	136.1	128.6	130.5	123.0	123.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)