

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: P834954

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834954
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-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

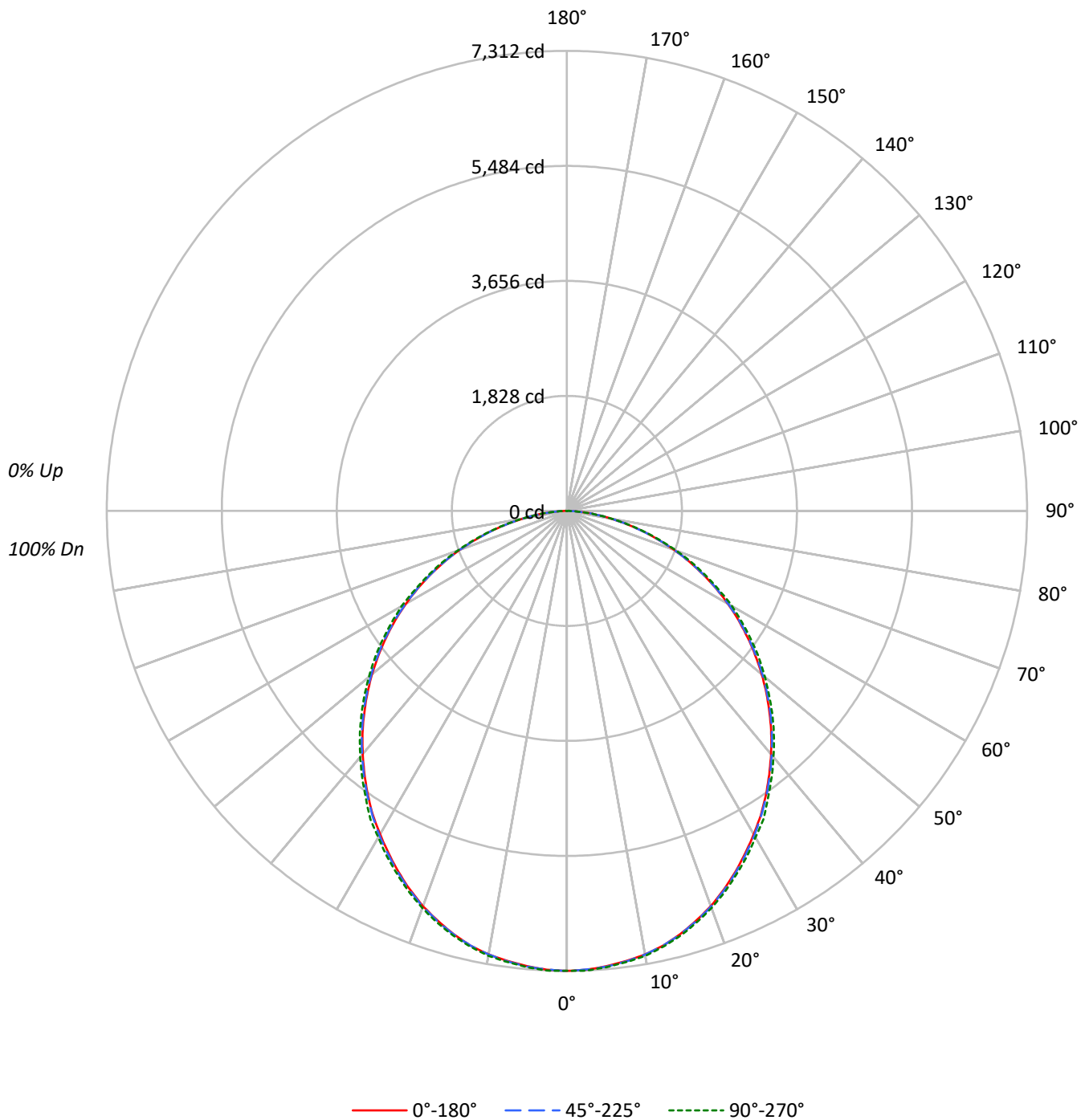
Lumens per Lamp: N/A
Luminaire Lumens: 19753.8 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9836	9836	9836
5°	9810	9819	9831
10°	9779	9781	9810
15°	9698	9705	9732
20°	9572	9583	9618
25°	9399	9422	9464
30°	9223	9253	9310
35°	9054	9077	9149
40°	8863	8893	8972
45°	8669	8706	8796
50°	8459	8497	8595
55°	8219	8258	8393
60°	7946	7979	8158
65°	7599	7623	7768
70°	7133	7139	7294
75°	6484	6460	6609
80°	5570	5547	5641
85°	4323	4253	4276

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.8	3.5
10°-20°	1965.1	9.9
20°-30°	2925.4	14.8
30°-40°	3459.5	17.5
40°-50°	3531.7	17.9
50°-60°	3151.8	16.0
60°-70°	2373.9	12.0
70°-80°	1323.9	6.7
80°-90°	331.7	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°	5581.2	28.3
0°-40°	9040.7	45.8
0°-60°	15724.3	79.6
0°-90°	19753.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19753.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7310	7310	7310	7310	7310	
5°	7264	7277	7270	7271	7279	690
15°	6962	6970	6967	6973	6987	1962
25°	6331	6339	6346	6363	6375	2917
35°	5512	5506	5526	5547	5570	3447
45°	4556	4554	4576	4598	4622	3514
55°	3504	3499	3520	3545	3578	3132
65°	2387	2378	2394	2416	2440	2361
75°	1247	1237	1243	1249	1271	1322
85°	280	272	276	272	277	336
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7310.5	7310.5	7310.5	7310.5	7310.5
2.5°	7298.4	7310.5	7295.4	7298.4	7312.0
5°	7263.6	7277.2	7269.6	7271.1	7278.7
7.5°	7215.1	7233.3	7222.7	7225.7	7233.3
10°	7157.6	7171.2	7159.1	7166.7	7180.3
12.5°	7075.9	7081.9	7075.9	7078.9	7094.0
15°	6962.4	6969.9	6966.9	6973.0	6986.6
17.5°	6829.2	6838.3	6836.7	6848.9	6859.4
20°	6685.4	6686.9	6693.0	6705.1	6717.2
22.5°	6515.9	6520.4	6526.5	6543.1	6555.2
25°	6331.2	6338.8	6346.3	6363.0	6375.1
27.5°	6136.0	6143.5	6154.1	6172.3	6192.0
30°	5936.2	5936.2	5955.9	5974.0	5992.2
32.5°	5734.9	5727.3	5745.5	5768.2	5812.1
35°	5512.4	5506.3	5526.0	5547.2	5569.9
37.5°	5280.8	5276.3	5299.0	5321.7	5342.9
40°	5046.2	5040.1	5062.9	5085.6	5108.3
42.5°	4805.5	4802.5	4823.7	4846.4	4870.6
45°	4555.8	4554.3	4575.5	4598.2	4622.4
47.5°	4301.5	4298.5	4319.7	4343.9	4365.1
50°	4041.2	4038.2	4059.4	4083.6	4106.3
52.5°	3773.3	3773.3	3793.0	3814.2	3849.0
55°	3503.9	3499.3	3520.5	3544.8	3578.1
57.5°	3231.4	3225.4	3245.1	3269.3	3299.6
60°	2953.0	2946.9	2965.1	2989.3	3031.7
62.5°	2671.4	2662.3	2680.5	2703.2	2728.9
65°	2386.9	2377.8	2394.4	2415.6	2439.9
67.5°	2100.8	2090.2	2106.9	2125.0	2147.7
70°	1813.2	1802.6	1814.8	1832.9	1854.1
72.5°	1527.2	1516.6	1527.2	1534.7	1560.5
75°	1247.2	1236.6	1242.6	1248.7	1271.4
77.5°	974.7	964.1	976.2	979.3	992.9
80°	718.9	708.3	715.9	717.4	728.0
82.5°	485.9	476.8	487.4	479.8	488.9
85°	280.0	272.4	275.5	272.4	277.0
87.5°	110.5	104.4	105.9	99.9	99.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)