

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835045

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-20-120-EDD-90**

Issue Date: 5/16/2024

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**Test Information**

Test Method: LM-79-08
Report Number: P835045
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-LD4-1LO-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

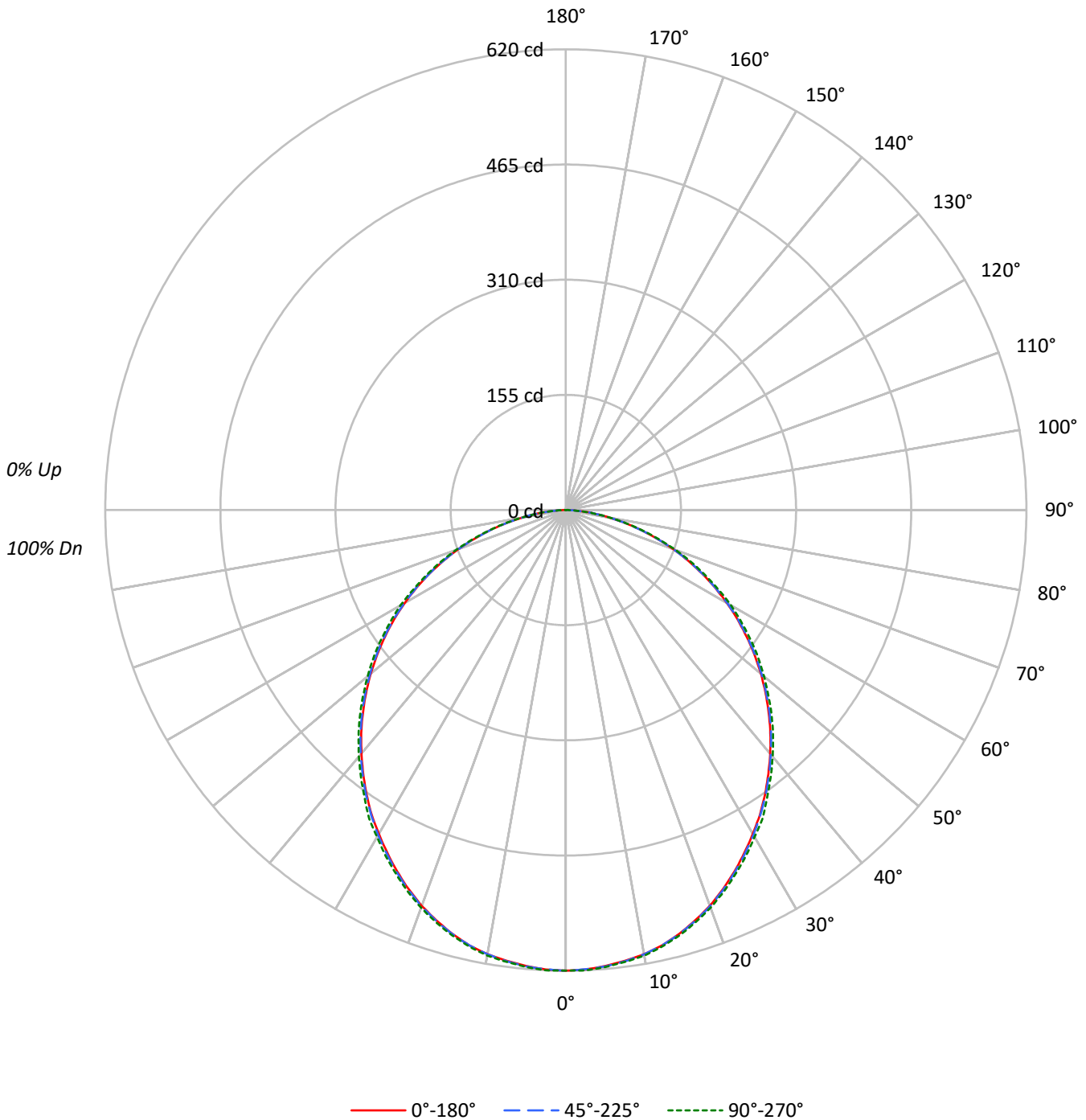
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 71.6 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): 23.4
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	834	834	834
5°	832	833	834
10°	829	829	832
15°	822	823	825
20°	812	813	816
25°	797	799	803
30°	782	785	789
35°	768	770	776
40°	752	754	761
45°	735	738	746
50°	717	720	729
55°	697	700	712
60°	674	677	692
65°	644	646	659
70°	605	605	618
75°	550	548	560
80°	473	470	478
85°	366	361	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.5
10°-20°	166.6	9.9
20°-30°	248.1	14.8
30°-40°	293.4	17.5
40°-50°	299.5	17.9
50°-60°	267.3	16.0
60°-70°	201.3	12.0
70°-80°	112.3	6.7
80°-90°	28.1	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°	473.3	28.3
0°-40°	766.6	45.8
0°-60°	1333.3	79.6
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	616	617	616	617	617	59
15°	590	591	591	591	592	166
25°	537	538	538	540	541	247
35°	467	467	469	470	472	292
45°	386	386	388	390	392	298
55°	297	297	298	301	303	266
65°	202	202	203	205	207	200
75°	106	105	105	106	108	112
85°	24	23	23	23	24	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.9	619.9	619.9	619.9	619.9
2.5°	618.9	619.9	618.6	618.9	620.0
5°	615.9	617.1	616.4	616.6	617.2
7.5°	611.8	613.3	612.4	612.7	613.3
10°	606.9	608.1	607.1	607.7	608.9
12.5°	600.0	600.5	600.0	600.3	601.5
15°	590.4	591.0	590.8	591.3	592.4
17.5°	579.1	579.8	579.7	580.7	581.6
20°	566.9	567.0	567.5	568.6	569.6
22.5°	552.5	552.9	553.4	554.8	555.8
25°	536.9	537.5	538.1	539.6	540.6
27.5°	520.3	520.9	521.8	523.4	525.0
30°	503.4	503.4	505.0	506.6	508.1
32.5°	486.3	485.6	487.2	489.1	492.8
35°	467.4	466.9	468.6	470.4	472.3
37.5°	447.8	447.4	449.3	451.3	453.0
40°	427.9	427.4	429.3	431.2	433.2
42.5°	407.5	407.2	409.0	411.0	413.0
45°	386.3	386.2	388.0	389.9	392.0
47.5°	364.7	364.5	366.3	368.3	370.1
50°	342.7	342.4	344.2	346.3	348.2
52.5°	320.0	320.0	321.6	323.4	326.4
55°	297.1	296.7	298.5	300.6	303.4
57.5°	274.0	273.5	275.2	277.2	279.8
60°	250.4	249.9	251.4	253.5	257.1
62.5°	226.5	225.8	227.3	229.2	231.4
65°	202.4	201.6	203.0	204.8	206.9
67.5°	178.1	177.2	178.7	180.2	182.1
70°	153.8	152.9	153.9	155.4	157.2
72.5°	129.5	128.6	129.5	130.1	132.3
75°	105.8	104.9	105.4	105.9	107.8
77.5°	82.7	81.8	82.8	83.0	84.2
80°	61.0	60.1	60.7	60.8	61.7
82.5°	41.2	40.4	41.3	40.7	41.5
85°	23.7	23.1	23.4	23.1	23.5
87.5°	9.4	8.9	9.0	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)