

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: P835642

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835642
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-2LO-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

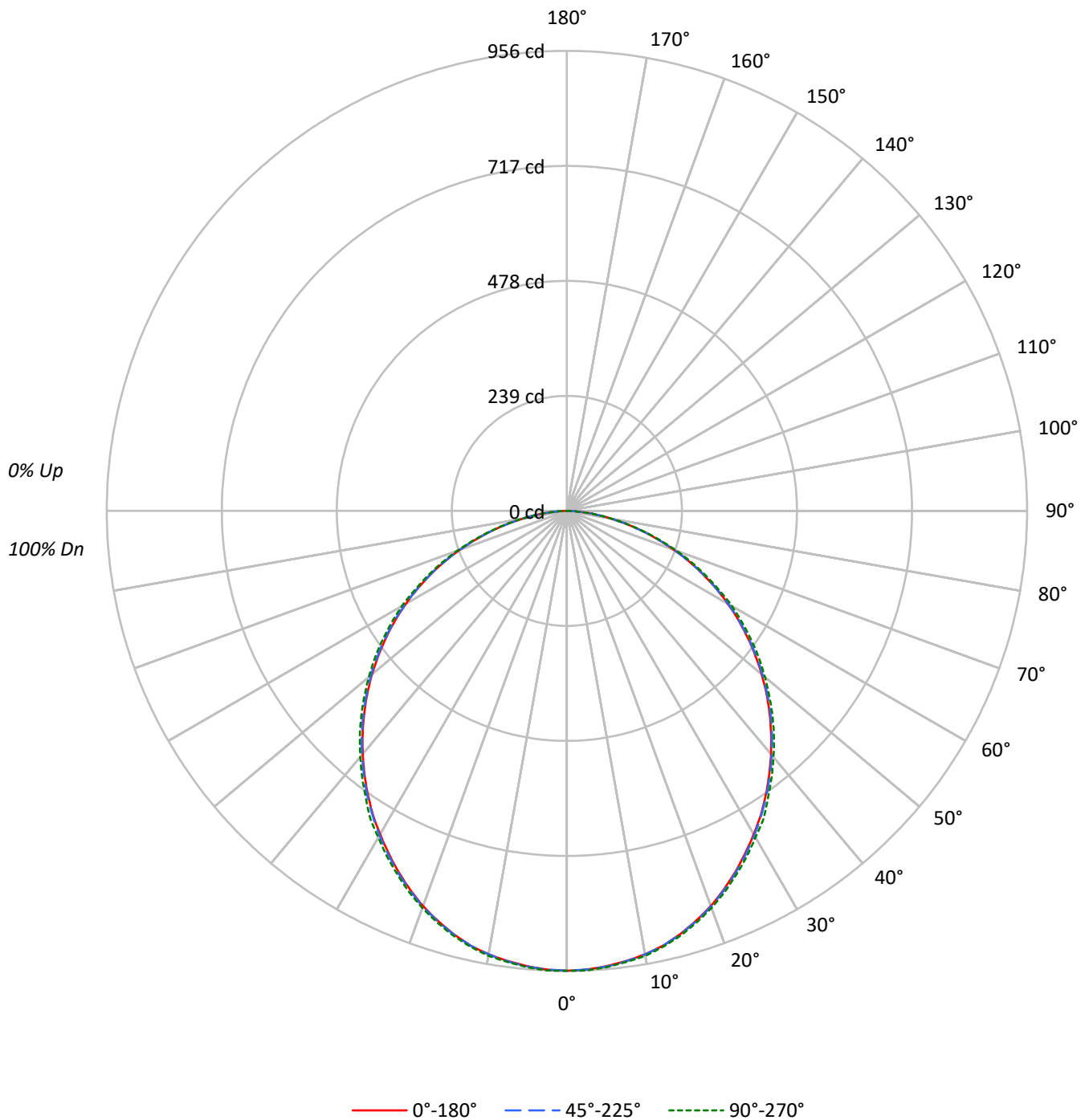
Lumens per Lamp: N/A
Luminaire Lumens: 2582.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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	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°	2572	2572	2572
5°	2565	2567	2571
10°	2557	2557	2565
15°	2536	2537	2545
20°	2503	2506	2515
25°	2458	2464	2475
30°	2411	2419	2434
35°	2367	2373	2392
40°	2317	2325	2346
45°	2267	2277	2300
50°	2212	2222	2247
55°	2149	2159	2195
60°	2077	2086	2133
65°	1987	1993	2031
70°	1865	1866	1907
75°	1695	1690	1728
80°	1457	1450	1475
85°	1130	1112	1118

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.5
10°-20°	256.9	9.9
20°-30°	382.4	14.8
30°-40°	452.3	17.5
40°-50°	461.7	17.9
50°-60°	412.0	16.0
60°-70°	310.3	12.0
70°-80°	173.1	6.7
80°-90°	43.4	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°	729.6	28.3
0°-40°	1181.9	45.8
0°-60°	2055.7	79.6
0°-90°	2582.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	950	951	950	951	952	90
15°	910	911	911	912	913	257
25°	828	829	830	832	833	381
35°	721	720	722	725	728	451
45°	596	595	598	601	604	459
55°	458	458	460	463	468	409
65°	312	311	313	316	319	309
75°	163	162	162	163	166	173
85°	37	36	36	36	36	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.7	955.7	955.7	955.7	955.7
2.5°	954.1	955.7	953.7	954.1	955.9
5°	949.6	951.4	950.4	950.6	951.6
7.5°	943.2	945.6	944.2	944.6	945.6
10°	935.7	937.5	935.9	936.9	938.7
12.5°	925.0	925.8	925.0	925.4	927.4
15°	910.2	911.2	910.8	911.6	913.4
17.5°	892.8	894.0	893.8	895.4	896.7
20°	874.0	874.2	875.0	876.6	878.1
22.5°	851.8	852.4	853.2	855.4	857.0
25°	827.7	828.7	829.7	831.8	833.4
27.5°	802.2	803.2	804.5	806.9	809.5
30°	776.0	776.0	778.6	781.0	783.4
32.5°	749.7	748.7	751.1	754.1	759.8
35°	720.6	719.9	722.4	725.2	728.2
37.5°	690.4	689.8	692.7	695.7	698.5
40°	659.7	658.9	661.9	664.8	667.8
42.5°	628.2	627.8	630.6	633.6	636.7
45°	595.6	595.4	598.2	601.1	604.3
47.5°	562.3	562.0	564.7	567.9	570.7
50°	528.3	527.9	530.7	533.9	536.8
52.5°	493.3	493.3	495.9	498.6	503.2
55°	458.1	457.5	460.2	463.4	467.8
57.5°	422.5	421.7	424.2	427.4	431.4
60°	386.0	385.3	387.6	390.8	396.3
62.5°	349.2	348.1	350.4	353.4	356.8
65°	312.0	310.9	313.0	315.8	319.0
67.5°	274.6	273.3	275.4	277.8	280.8
70°	237.0	235.7	237.2	239.6	242.4
72.5°	199.7	198.3	199.7	200.6	204.0
75°	163.0	161.7	162.5	163.2	166.2
77.5°	127.4	126.0	127.6	128.0	129.8
80°	94.0	92.6	93.6	93.8	95.2
82.5°	63.5	62.3	63.7	62.7	63.9
85°	36.6	35.6	36.0	35.6	36.2
87.5°	14.4	13.7	13.9	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)