

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: P835001

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835001
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-LD4-4STD-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

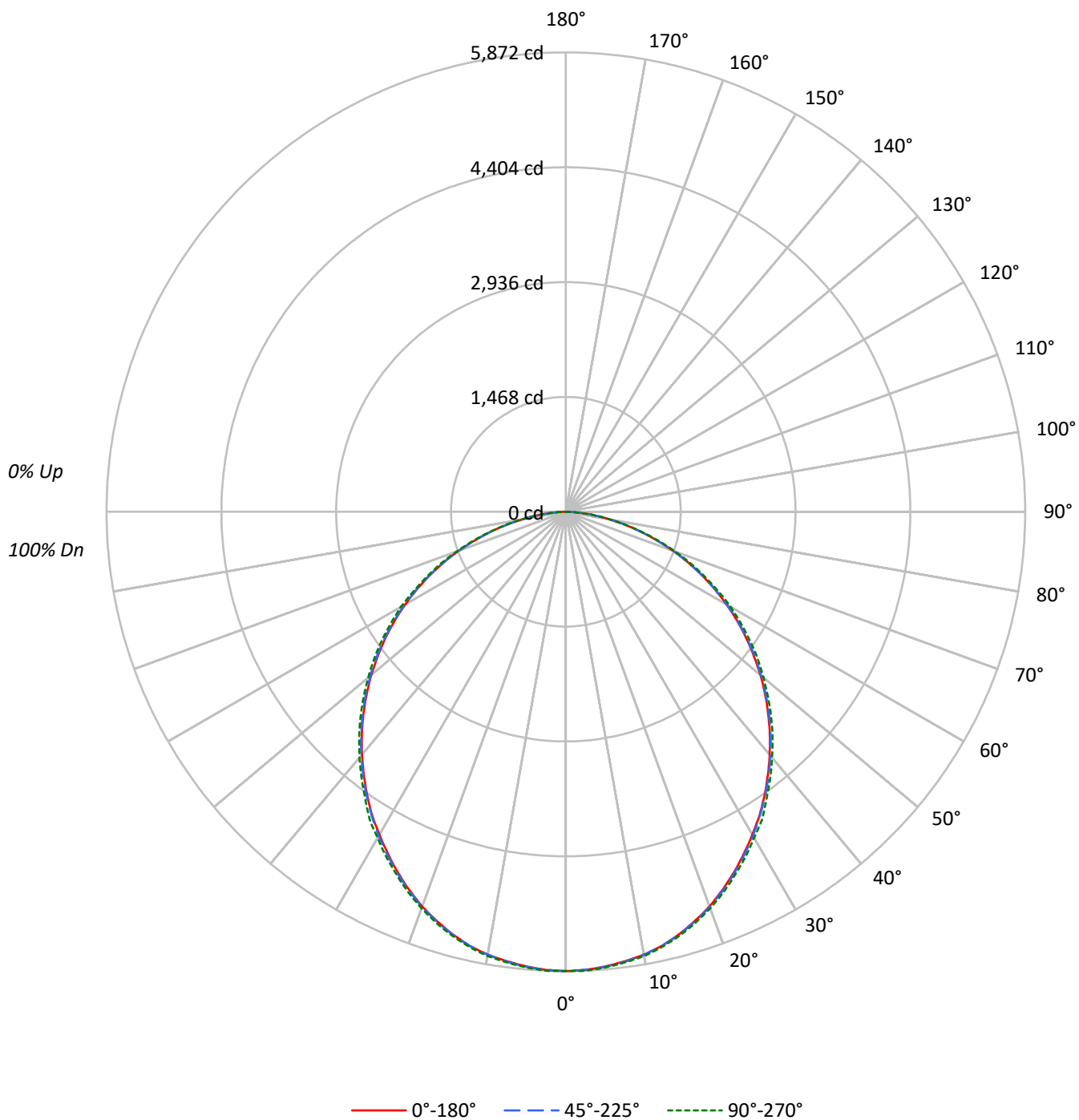
Lumens per Lamp: N/A
Luminaire Lumens: 15864.9 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	7900	7900	7900
5°	7879	7886	7896
10°	7854	7856	7879
15°	7789	7794	7816
20°	7688	7697	7724
25°	7549	7567	7601
30°	7407	7432	7477
35°	7272	7290	7348
40°	7118	7142	7206
45°	6962	6992	7064
50°	6794	6824	6903
55°	6601	6633	6741
60°	6382	6408	6552
65°	6103	6123	6238
70°	5729	5734	5858
75°	5207	5188	5308
80°	4474	4455	4530
85°	3472	3415	3435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.8	3.5
10°-20°	1578.2	9.9
20°-30°	2349.5	14.8
30°-40°	2778.4	17.5
40°-50°	2836.4	17.9
50°-60°	2531.3	16.0
60°-70°	1906.6	12.0
70°-80°	1063.3	6.7
80°-90°	266.4	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°	4482.5	28.3
0°-40°	7260.9	45.8
0°-60°	12628.7	79.6
0°-90°	15864.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15864.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5871	5871	5871	5871	5871	
5°	5834	5845	5838	5840	5846	554
15°	5592	5598	5595	5600	5611	1576
25°	5085	5091	5097	5110	5120	2343
35°	4427	4422	4438	4455	4473	2769
45°	3659	3658	3675	3693	3712	2823
55°	2814	2810	2828	2847	2874	2515
65°	1917	1910	1923	1940	1960	1896
75°	1002	993	998	1003	1021	1062
85°	225	219	221	219	222	270
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5871.3	5871.3	5871.3	5871.3	5871.3
2.5°	5861.6	5871.3	5859.1	5861.6	5872.5
5°	5833.6	5844.6	5838.5	5839.7	5845.8
7.5°	5794.7	5809.3	5800.8	5803.2	5809.3
10°	5748.5	5759.5	5749.7	5755.8	5766.8
12.5°	5682.9	5687.7	5682.9	5685.3	5697.5
15°	5591.7	5597.8	5595.4	5600.2	5611.2
17.5°	5484.7	5492.0	5490.8	5500.5	5509.0
20°	5369.3	5370.5	5375.3	5385.1	5394.8
22.5°	5233.1	5236.8	5241.6	5255.0	5264.7
25°	5084.8	5090.9	5097.0	5110.3	5120.1
27.5°	4928.0	4934.1	4942.6	4957.2	4973.0
30°	4767.5	4767.5	4783.3	4797.9	4812.5
32.5°	4605.9	4599.8	4614.4	4632.6	4667.9
35°	4427.2	4422.3	4438.1	4455.1	4473.4
37.5°	4241.2	4237.5	4255.8	4274.0	4291.0
40°	4052.8	4047.9	4066.1	4084.4	4102.6
42.5°	3859.5	3857.1	3874.1	3892.3	3911.8
45°	3658.9	3657.7	3674.7	3693.0	3712.4
47.5°	3454.7	3452.3	3469.3	3488.7	3505.8
50°	3245.6	3243.2	3260.2	3279.7	3297.9
52.5°	3030.5	3030.5	3046.3	3063.3	3091.2
55°	2814.1	2810.4	2827.5	2846.9	2873.7
57.5°	2595.3	2590.4	2606.2	2625.7	2650.0
60°	2371.6	2366.8	2381.3	2400.8	2434.8
62.5°	2145.5	2138.2	2152.8	2171.0	2191.7
65°	1917.0	1909.7	1923.1	1940.1	1959.5
67.5°	1687.2	1678.7	1692.1	1706.7	1724.9
70°	1456.3	1447.8	1457.5	1472.1	1489.1
72.5°	1226.5	1218.0	1226.5	1232.6	1253.3
75°	1001.6	993.1	998.0	1002.9	1021.1
77.5°	782.8	774.3	784.1	786.5	797.4
80°	577.4	568.9	575.0	576.2	584.7
82.5°	390.2	382.9	391.4	385.3	392.6
85°	224.9	218.8	221.2	218.8	222.5
87.5°	88.7	83.9	85.1	80.2	80.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)