

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: P835000

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835000
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-LD4-4LO-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

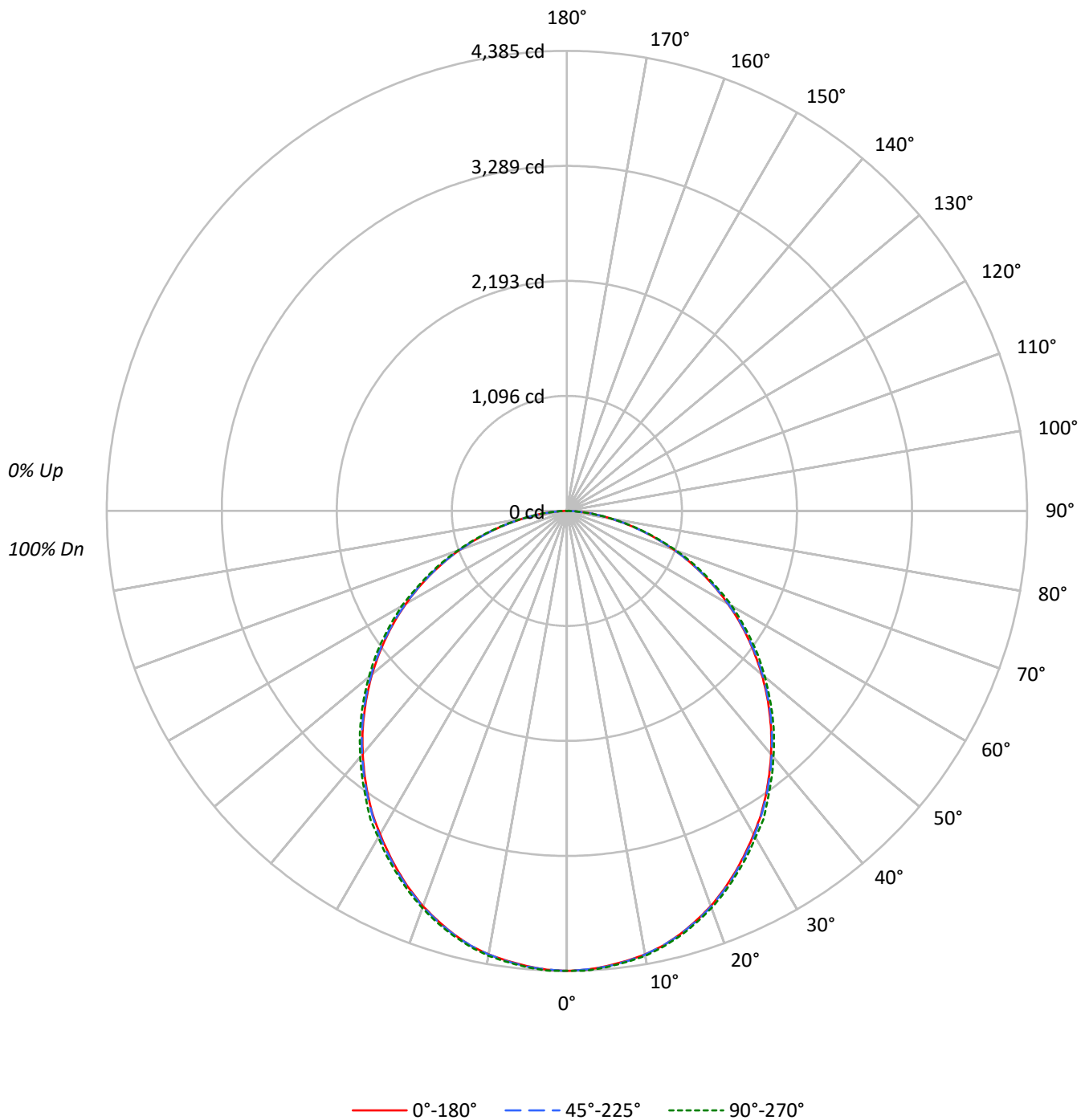
Lumens per Lamp: N/A
Luminaire Lumens: 11846.7 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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

TEST NUMBER: P835000

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4LO-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835000

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4LO-35-120-EDD

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°	5899	5899	5899
5°	5883	5888	5896
10°	5865	5866	5883
15°	5816	5820	5836
20°	5741	5747	5768
25°	5637	5650	5676
30°	5531	5549	5583
35°	5430	5443	5487
40°	5315	5333	5381
45°	5199	5221	5275
50°	5073	5096	5155
55°	4929	4953	5034
60°	4765	4785	4892
65°	4557	4572	4658
70°	4278	4281	4374
75°	3889	3874	3964
80°	3341	3326	3383
85°	2592	2550	2564

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835000

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4LO-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	3.5
10°-20°	1178.5	9.9
20°-30°	1754.4	14.8
30°-40°	2074.7	17.5
40°-50°	2118.0	17.9
50°-60°	1890.2	16.0
60°-70°	1423.7	12.0
70°-80°	794.0	6.7
80°-90°	198.9	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°	3347.1	28.3
0°-40°	5421.9	45.8
0°-60°	9430.1	79.6
0°-90°	11846.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11846.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4384	4384	4384	4384	4384	
5°	4356	4364	4360	4361	4365	414
15°	4176	4180	4178	4182	4190	1177
25°	3797	3802	3806	3816	3823	1749
35°	3306	3302	3314	3327	3340	2067
45°	2732	2731	2744	2758	2772	2108
55°	2101	2099	2111	2126	2146	1878
65°	1432	1426	1436	1449	1463	1416
75°	748	742	745	749	762	793
85°	168	163	165	163	166	202
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835000

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4LO-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4384.2	4384.2	4384.2	4384.2	4384.2
2.5°	4377.0	4384.2	4375.1	4377.0	4385.1
5°	4356.1	4364.3	4359.7	4360.6	4365.2
7.5°	4327.0	4337.9	4331.6	4333.4	4337.9
10°	4292.5	4300.7	4293.5	4298.0	4306.2
12.5°	4243.5	4247.2	4243.5	4245.3	4254.4
15°	4175.5	4180.0	4178.2	4181.8	4190.0
17.5°	4095.6	4101.0	4100.1	4107.4	4113.7
20°	4009.3	4010.3	4013.9	4021.1	4028.4
22.5°	3907.7	3910.4	3914.0	3924.0	3931.3
25°	3796.9	3801.5	3806.0	3816.0	3823.3
27.5°	3679.8	3684.4	3690.7	3701.6	3713.4
30°	3560.0	3560.0	3571.8	3582.7	3593.6
32.5°	3439.3	3434.8	3445.7	3459.3	3485.6
35°	3305.9	3302.2	3314.0	3326.7	3340.4
37.5°	3167.0	3164.3	3177.9	3191.5	3204.2
40°	3026.3	3022.7	3036.3	3049.9	3063.5
42.5°	2882.0	2880.2	2892.9	2906.5	2921.0
45°	2732.2	2731.3	2744.0	2757.6	2772.1
47.5°	2579.7	2577.9	2590.6	2605.1	2617.8
50°	2423.6	2421.8	2434.5	2449.0	2462.6
52.5°	2262.9	2262.9	2274.7	2287.4	2308.3
55°	2101.3	2098.6	2111.3	2125.9	2145.8
57.5°	1938.0	1934.3	1946.1	1960.6	1978.8
60°	1770.9	1767.3	1778.2	1792.7	1818.1
62.5°	1602.1	1596.7	1607.5	1621.2	1636.6
65°	1431.5	1426.0	1436.0	1448.7	1463.2
67.5°	1259.9	1253.5	1263.5	1274.4	1288.0
70°	1087.4	1081.1	1088.3	1099.2	1111.9
72.5°	915.9	909.5	915.9	920.4	935.8
75°	748.0	741.6	745.2	748.9	762.5
77.5°	584.6	578.2	585.5	587.3	595.5
80°	431.2	424.8	429.3	430.3	436.6
82.5°	291.4	285.9	292.3	287.7	293.2
85°	167.9	163.4	165.2	163.4	166.1
87.5°	66.3	62.6	63.5	59.9	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)