

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: P835145

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835145
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-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

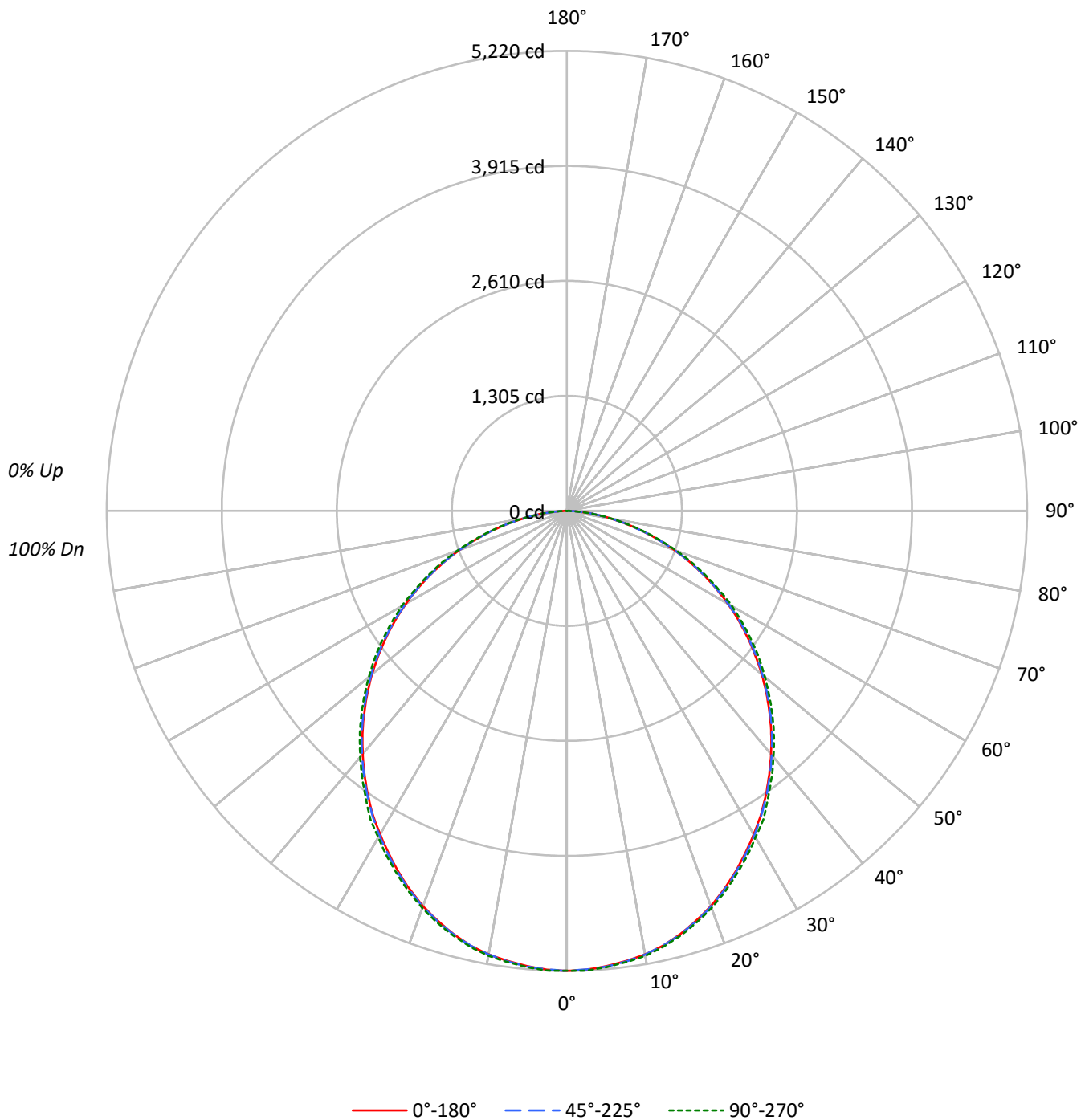
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14102.1 lumens
Efficiency: N/A
Efficacy: 105.9 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°	7022	7022	7022
5°	7004	7009	7018
10°	6981	6983	7003
15°	6924	6928	6948
20°	6834	6841	6866
25°	6710	6726	6757
30°	6584	6606	6646
35°	6464	6480	6531
40°	6327	6348	6405
45°	6189	6215	6279
50°	6039	6066	6136
55°	5868	5896	5992
60°	5673	5696	5824
65°	5425	5442	5545
70°	5092	5096	5207
75°	4629	4612	4718
80°	3976	3960	4027
85°	3086	3037	3052

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	3.5
10°-20°	1402.8	9.9
20°-30°	2088.4	14.8
30°-40°	2469.7	17.5
40°-50°	2521.2	17.9
50°-60°	2250.1	16.0
60°-70°	1694.7	12.0
70°-80°	945.1	6.7
80°-90°	236.8	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°	3984.4	28.3
0°-40°	6454.1	45.8
0°-60°	11225.5	79.6
0°-90°	14102.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14102.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5219	5219	5219	5219	5219	
5°	5185	5195	5190	5191	5196	493
15°	4970	4976	4974	4978	4988	1401
25°	4520	4525	4531	4542	4551	2082
35°	3935	3931	3945	3960	3976	2461
45°	3252	3251	3266	3283	3300	2509
55°	2501	2498	2513	2531	2554	2236
65°	1704	1698	1709	1724	1742	1685
75°	890	883	887	891	908	944
85°	200	194	197	194	198	240
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5218.9	5218.9	5218.9	5218.9	5218.9
2.5°	5210.3	5218.9	5208.1	5210.3	5220.0
5°	5185.4	5195.2	5189.8	5190.8	5196.2
7.5°	5150.9	5163.8	5156.3	5158.4	5163.8
10°	5109.8	5119.5	5110.9	5116.3	5126.0
12.5°	5051.4	5055.8	5051.4	5053.6	5064.4
15°	4970.4	4975.8	4973.6	4978.0	4987.7
17.5°	4875.3	4881.8	4880.7	4889.4	4896.9
20°	4772.7	4773.8	4778.1	4786.7	4795.4
22.5°	4651.7	4654.9	4659.2	4671.1	4679.7
25°	4519.8	4525.2	4530.6	4542.5	4551.2
27.5°	4380.4	4385.8	4393.4	4406.4	4420.4
30°	4237.8	4237.8	4251.9	4264.8	4277.8
32.5°	4094.1	4088.7	4101.7	4117.9	4149.2
35°	3935.3	3930.9	3945.0	3960.1	3976.3
37.5°	3769.9	3766.7	3782.9	3799.1	3814.2
40°	3602.5	3598.1	3614.4	3630.6	3646.8
42.5°	3430.7	3428.5	3443.6	3459.8	3477.1
45°	3252.4	3251.3	3266.4	3282.6	3299.9
47.5°	3070.8	3068.7	3083.8	3101.1	3116.2
50°	2885.0	2882.8	2898.0	2915.3	2931.5
52.5°	2693.7	2693.7	2707.8	2722.9	2747.8
55°	2501.4	2498.2	2513.3	2530.6	2554.4
57.5°	2306.9	2302.6	2316.6	2333.9	2355.5
60°	2108.1	2103.8	2116.7	2134.0	2164.3
62.5°	1907.1	1900.6	1913.6	1929.8	1948.2
65°	1704.0	1697.5	1709.4	1724.5	1741.8
67.5°	1499.8	1492.2	1504.1	1517.1	1533.3
70°	1294.5	1286.9	1295.5	1308.5	1323.6
72.5°	1090.2	1082.7	1090.2	1095.7	1114.0
75°	890.4	882.8	887.1	891.4	907.6
77.5°	695.9	688.3	696.9	699.1	708.8
80°	513.2	505.7	511.1	512.2	519.7
82.5°	346.8	340.4	347.9	342.5	349.0
85°	199.9	194.5	196.7	194.5	197.7
87.5°	78.9	74.6	75.6	71.3	71.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)