

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: P835098

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835098
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-LD4-6HI-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

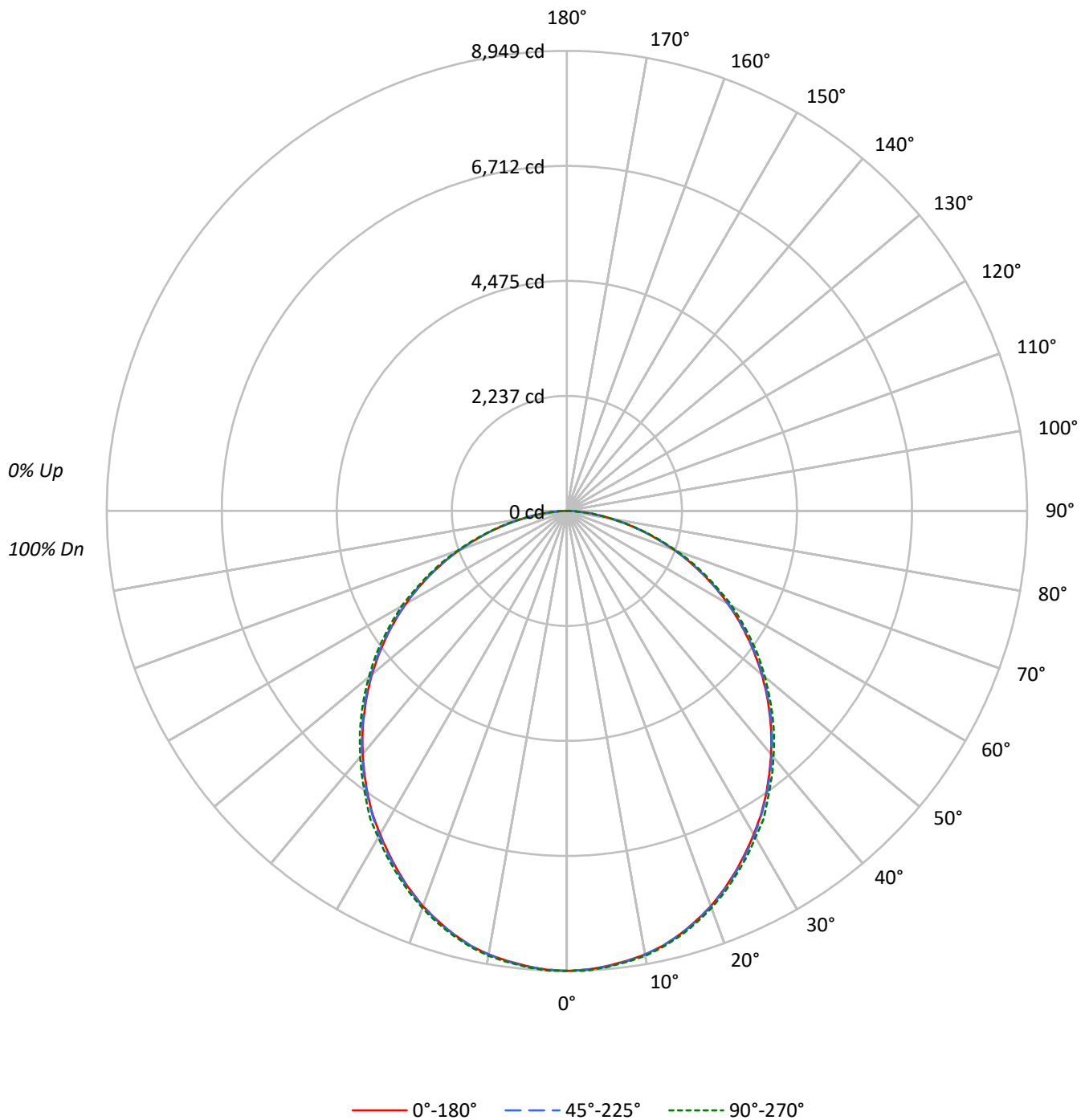
Lumens per Lamp: N/A
Luminaire Lumens: 24176.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12038	12038	12038
5°	12007	12017	12032
10°	11968	11971	12006
15°	11869	11877	11911
20°	11715	11729	11771
25°	11504	11531	11583
30°	11287	11325	11394
35°	11081	11109	11197
40°	10848	10883	10981
45°	10610	10655	10765
50°	10353	10399	10520
55°	10059	10107	10272
60°	9725	9765	9985
65°	9301	9330	9507
70°	8730	8737	8927
75°	7935	7906	8089
80°	6818	6789	6904
85°	5291	5204	5233

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.5	3.5
10°-20°	2405.0	9.9
20°-30°	3580.3	14.8
30°-40°	4234.0	17.5
40°-50°	4322.3	17.9
50°-60°	3857.5	16.0
60°-70°	2905.4	12.0
70°-80°	1620.3	6.7
80°-90°	405.9	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°	6830.7	28.3
0°-40°	11064.8	45.8
0°-60°	19244.6	79.6
0°-90°	24176.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24176.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8947	8947	8947	8947	8947	
5°	8890	8906	8897	8899	8908	844
15°	8521	8530	8527	8534	8551	2402
25°	7749	7758	7767	7788	7802	3570
35°	6746	6739	6763	6789	6817	4219
45°	5576	5574	5600	5628	5657	4301
55°	4288	4283	4309	4338	4379	3833
65°	2921	2910	2930	2956	2986	2889
75°	1526	1513	1521	1528	1556	1618
85°	343	333	337	333	339	411
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8947.2	8947.2	8947.2	8947.2	8947.2
2.5°	8932.3	8947.2	8928.6	8932.3	8949.0
5°	8889.7	8906.4	8897.1	8899.0	8908.3
7.5°	8830.5	8852.7	8839.7	8843.4	8852.7
10°	8760.1	8776.7	8761.9	8771.2	8787.9
12.5°	8660.0	8667.4	8660.0	8663.7	8682.3
15°	8521.1	8530.4	8526.7	8534.1	8550.7
17.5°	8358.1	8369.2	8367.4	8382.2	8395.1
20°	8182.1	8184.0	8191.4	8206.2	8221.0
22.5°	7974.6	7980.2	7987.6	8008.0	8022.8
25°	7748.7	7757.9	7767.2	7787.6	7802.4
27.5°	7509.7	7519.0	7531.9	7554.1	7578.2
30°	7265.2	7265.2	7289.3	7311.5	7333.7
32.5°	7018.8	7009.5	7031.8	7059.6	7113.3
35°	6746.5	6739.1	6763.2	6789.1	6816.9
37.5°	6463.1	6457.5	6485.3	6513.1	6539.0
40°	6176.0	6168.5	6196.3	6224.1	6251.9
42.5°	5881.4	5877.7	5903.6	5931.4	5961.1
45°	5575.8	5573.9	5599.8	5627.6	5657.3
47.5°	5264.6	5260.9	5286.8	5316.4	5342.4
50°	4945.9	4942.2	4968.2	4997.8	5025.6
52.5°	4618.1	4618.1	4642.2	4668.1	4710.7
55°	4288.3	4282.8	4308.7	4338.4	4379.1
57.5°	3954.9	3947.5	3971.6	4001.2	4038.3
60°	3614.1	3606.7	3628.9	3658.5	3710.4
62.5°	3269.5	3258.4	3280.6	3308.4	3339.9
65°	2921.3	2910.1	2930.5	2956.5	2986.1
67.5°	2571.2	2558.2	2578.6	2600.8	2628.6
70°	2219.2	2206.2	2221.0	2243.3	2269.2
72.5°	1869.1	1856.1	1869.1	1878.3	1909.8
75°	1526.4	1513.4	1520.8	1528.2	1556.0
77.5°	1193.0	1180.0	1194.8	1198.5	1215.2
80°	879.9	866.9	876.2	878.0	891.0
82.5°	594.6	583.5	596.5	587.2	598.3
85°	342.7	333.4	337.1	333.4	339.0
87.5°	135.2	127.8	129.7	122.3	122.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)