

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: P834431

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

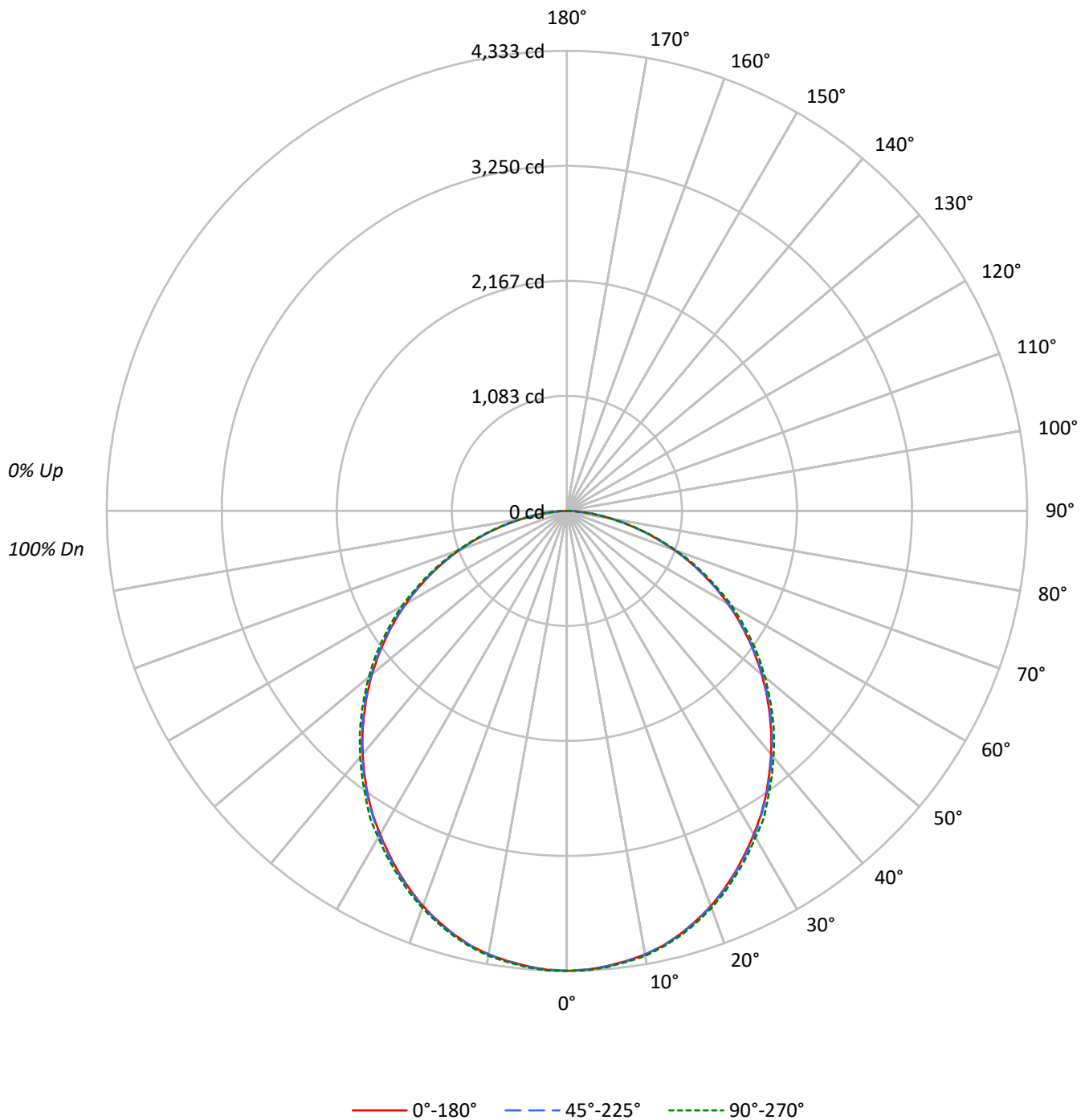
Lumens per Lamp: N/A
Luminaire Lumens: 11704.9 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	11657	11657	11657
5°	11626	11636	11650
10°	11589	11592	11626
15°	11493	11501	11533
20°	11344	11357	11398
25°	11139	11166	11216
30°	10930	10966	11033
35°	10730	10757	10842
40°	10504	10538	10633
45°	10273	10318	10424
50°	10025	10070	10186
55°	9741	9787	9947
60°	9417	9456	9668
65°	9005	9034	9205
70°	8453	8460	8644
75°	7683	7655	7833
80°	6602	6574	6685
85°	5122	5039	5067

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	3.5
10°-20°	1164.4	9.9
20°-30°	1733.4	14.8
30°-40°	2049.9	17.5
40°-50°	2092.7	17.9
50°-60°	1867.6	16.0
60°-70°	1406.7	12.0
70°-80°	784.5	6.7
80°-90°	196.5	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°	3307.1	28.3
0°-40°	5357.0	45.8
0°-60°	9317.3	79.6
0°-90°	11704.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11704.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4332	4332	4332	4332	4332	
5°	4304	4312	4308	4308	4313	409
15°	4126	4130	4128	4132	4140	1163
25°	3752	3756	3760	3770	3778	1728
35°	3266	3263	3274	3287	3300	2043
45°	2700	2699	2711	2725	2739	2082
55°	2076	2074	2086	2100	2120	1856
65°	1414	1409	1419	1431	1446	1399
75°	739	733	736	740	753	783
85°	166	161	163	161	164	199
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4331.8	4331.8	4331.8	4331.8	4331.8
2.5°	4324.6	4331.8	4322.8	4324.6	4332.7
5°	4304.0	4312.0	4307.6	4308.5	4312.9
7.5°	4275.3	4286.0	4279.8	4281.6	4286.0
10°	4241.2	4249.3	4242.1	4246.6	4254.6
12.5°	4192.8	4196.4	4192.8	4194.6	4203.5
15°	4125.5	4130.0	4128.2	4131.8	4139.9
17.5°	4046.6	4052.0	4051.1	4058.2	4064.5
20°	3961.4	3962.3	3965.9	3973.0	3980.2
22.5°	3860.9	3863.6	3867.2	3877.1	3884.2
25°	3751.5	3756.0	3760.5	3770.3	3777.5
27.5°	3635.8	3640.3	3646.6	3657.3	3669.0
30°	3517.4	3517.4	3529.1	3539.9	3550.6
32.5°	3398.2	3393.7	3404.4	3417.9	3443.9
35°	3266.3	3262.7	3274.4	3286.9	3300.4
37.5°	3129.1	3126.4	3139.9	3153.3	3165.9
40°	2990.1	2986.5	3000.0	3013.4	3026.9
42.5°	2847.5	2845.7	2858.3	2871.7	2886.1
45°	2699.5	2698.6	2711.2	2724.6	2739.0
47.5°	2548.8	2547.0	2559.6	2574.0	2586.5
50°	2394.6	2392.8	2405.3	2419.7	2433.1
52.5°	2235.8	2235.8	2247.5	2260.1	2280.7
55°	2076.2	2073.5	2086.1	2100.4	2120.1
57.5°	1914.8	1911.2	1922.8	1937.2	1955.1
60°	1749.8	1746.2	1756.9	1771.3	1796.4
62.5°	1582.9	1577.6	1588.3	1601.8	1617.0
65°	1414.3	1408.9	1418.8	1431.4	1445.7
67.5°	1244.8	1238.5	1248.4	1259.2	1272.6
70°	1074.4	1068.1	1075.3	1086.1	1098.6
72.5°	904.9	898.6	904.9	909.4	924.7
75°	739.0	732.7	736.3	739.9	753.4
77.5°	577.6	571.3	578.5	580.3	588.3
80°	426.0	419.7	424.2	425.1	431.4
82.5°	287.9	282.5	288.8	284.3	289.7
85°	165.9	161.4	163.2	161.4	164.1
87.5°	65.5	61.9	62.8	59.2	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)