

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: P835026

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835026
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-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

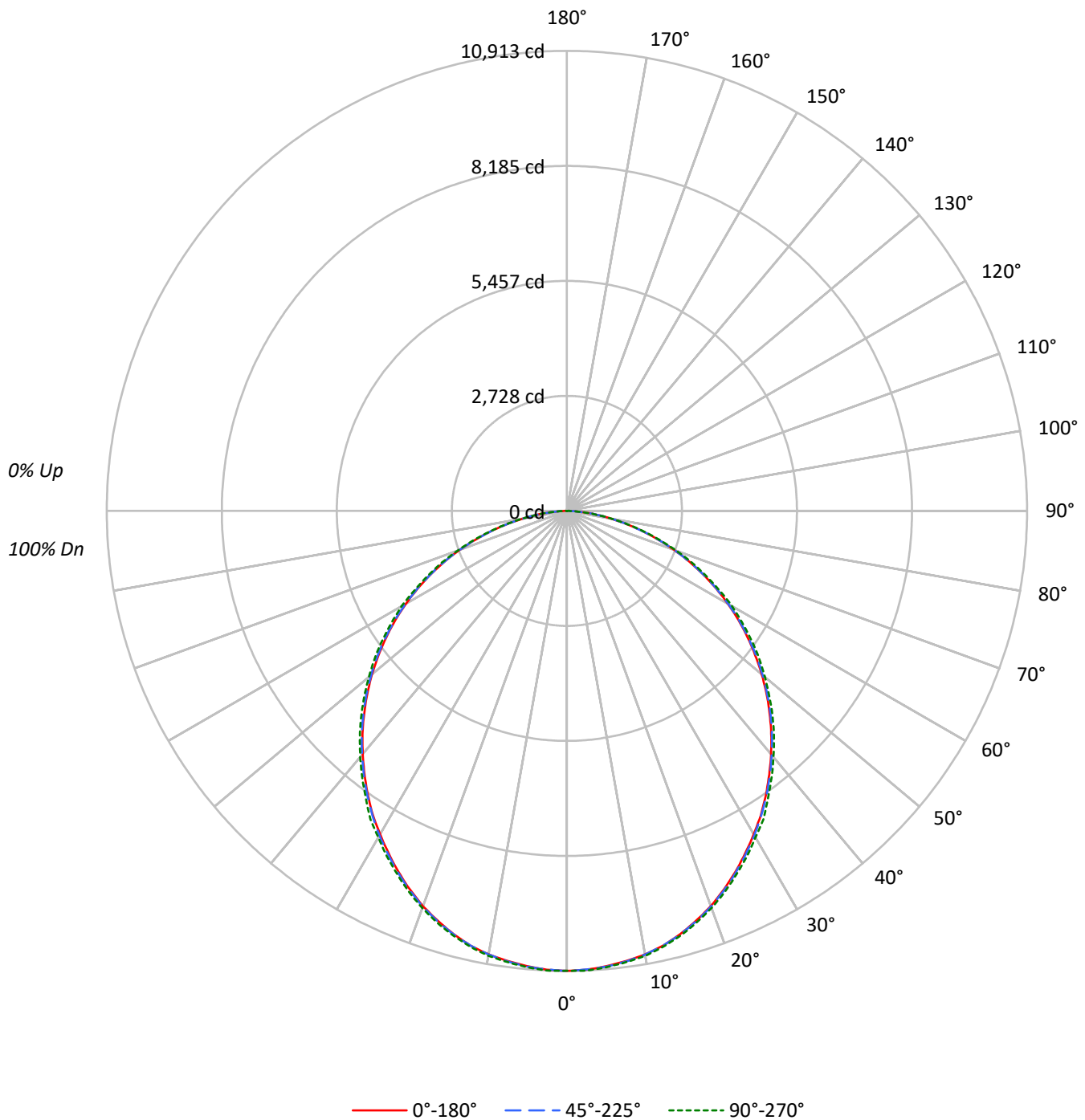
Lumens per Lamp: N/A
Luminaire Lumens: 29483.2 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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°	14681	14681	14681
5°	14642	14655	14673
10°	14596	14599	14642
15°	14475	14484	14525
20°	14287	14303	14355
25°	14029	14062	14126
30°	13765	13811	13895
35°	13514	13547	13655
40°	13229	13272	13391
45°	12939	12994	13128
50°	12625	12682	12829
55°	12268	12326	12527
60°	11860	11909	12176
65°	11342	11378	11594
70°	10646	10655	10886
75°	9677	9642	9865
80°	8314	8279	8419
85°	6451	6346	6382

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.1	3.5
10°-20°	2932.9	9.9
20°-30°	4366.2	14.8
30°-40°	5163.5	17.5
40°-50°	5271.2	17.9
50°-60°	4704.2	16.0
60°-70°	3543.2	12.0
70°-80°	1976.0	6.7
80°-90°	495.0	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°	8330.2	28.3
0°-40°	13493.6	45.8
0°-60°	23469.0	79.6
0°-90°	29483.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29483.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10911	10911	10911	10911	10911	
5°	10841	10862	10850	10852	10864	###
15°	10392	10403	10398	10407	10428	2929
25°	9450	9461	9472	9497	9515	4353
35°	8227	8218	8248	8279	8313	5145
45°	6800	6798	6829	6863	6899	5245
55°	5230	5223	5254	5291	5340	4675
65°	3562	3549	3574	3605	3642	3524
75°	1862	1846	1855	1864	1898	1973
85°	418	407	411	407	413	502
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10911.2	10911.2	10911.2	10911.2	10911.2
2.5°	10893.1	10911.2	10888.6	10893.1	10913.4
5°	10841.1	10861.5	10850.2	10852.4	10863.7
7.5°	10768.9	10796.0	10780.1	10784.7	10796.0
10°	10683.0	10703.3	10685.3	10696.6	10716.9
12.5°	10561.0	10570.1	10561.0	10565.5	10588.1
15°	10391.6	10402.9	10398.4	10407.4	10427.7
17.5°	10192.8	10206.4	10204.1	10222.2	10238.0
20°	9978.2	9980.4	9989.5	10007.6	10025.6
22.5°	9725.2	9732.0	9741.0	9765.8	9783.9
25°	9449.6	9460.9	9472.2	9497.0	9515.1
27.5°	9158.2	9169.5	9185.3	9212.4	9241.7
30°	8860.0	8860.0	8889.3	8916.4	8943.5
32.5°	8559.5	8548.2	8575.3	8609.2	8674.7
35°	8227.4	8218.4	8247.8	8279.4	8313.3
37.5°	7881.8	7875.0	7908.9	7942.8	7974.4
40°	7531.6	7522.6	7556.5	7590.4	7624.3
42.5°	7172.5	7167.9	7199.6	7233.5	7269.6
45°	6799.7	6797.5	6829.1	6863.0	6899.1
47.5°	6420.2	6415.7	6447.3	6483.5	6515.1
50°	6031.6	6027.1	6058.8	6094.9	6128.8
52.5°	5631.8	5631.8	5661.2	5692.8	5744.7
55°	5229.7	5222.9	5254.5	5290.7	5340.4
57.5°	4823.1	4814.0	4843.4	4879.5	4924.7
60°	4407.4	4398.4	4425.5	4461.6	4524.9
62.5°	3987.2	3973.7	4000.8	4034.6	4073.1
65°	3562.5	3549.0	3573.8	3605.4	3641.6
67.5°	3135.6	3119.7	3144.6	3171.7	3205.6
70°	2706.3	2690.5	2708.6	2735.7	2767.3
72.5°	2279.4	2263.6	2279.4	2290.7	2329.1
75°	1861.5	1845.6	1854.7	1863.7	1897.6
77.5°	1454.8	1439.0	1457.1	1461.6	1481.9
80°	1073.0	1057.2	1068.5	1070.8	1086.6
82.5°	725.2	711.6	727.4	716.1	729.7
85°	417.9	406.6	411.1	406.6	413.4
87.5°	164.9	155.9	158.1	149.1	149.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)