

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: P835692

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835692
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-6HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

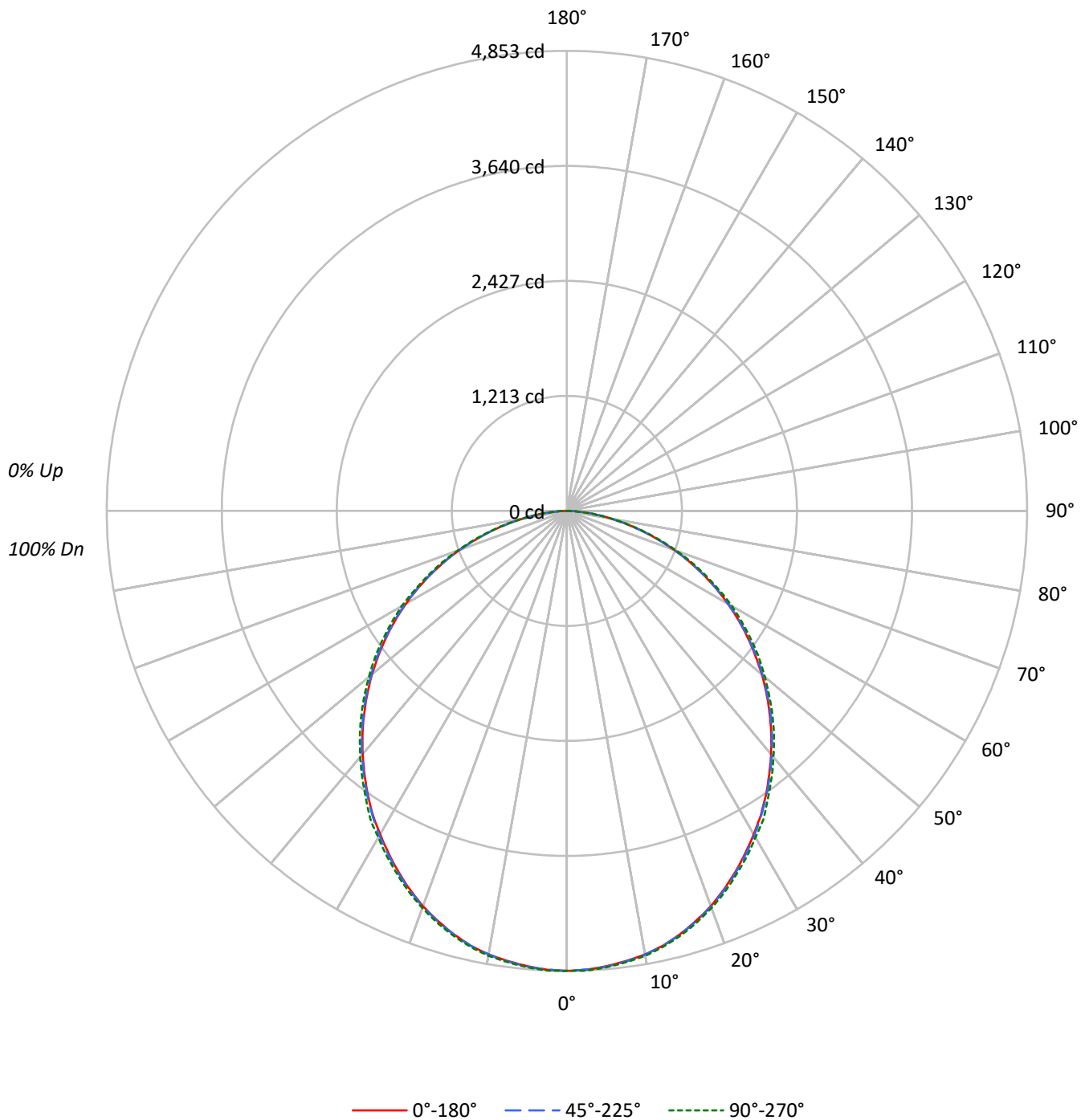
Lumens per Lamp: N/A
Luminaire Lumens: 13111.6 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	13057	13057	13057
5°	13023	13034	13051
10°	12982	12985	13023
15°	12875	12883	12919
20°	12707	12722	12768
25°	12478	12507	12564
30°	12243	12284	12359
35°	12020	12049	12145
40°	11766	11805	11911
45°	11508	11558	11676
50°	11230	11280	11411
55°	10911	10963	11142
60°	10549	10592	10830
65°	10088	10120	10312
70°	9469	9477	9683
75°	8607	8576	8774
80°	7395	7364	7488
85°	5740	5644	5675

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	3.5
10°-20°	1304.3	9.9
20°-30°	1941.7	14.8
30°-40°	2296.3	17.5
40°-50°	2344.2	17.9
50°-60°	2092.0	16.0
60°-70°	1575.7	12.0
70°-80°	878.7	6.7
80°-90°	220.1	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°	3704.5	28.3
0°-40°	6000.8	45.8
0°-60°	10437.0	79.6
0°-90°	13111.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13111.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4852	4852	4852	4852	4852	
5°	4821	4830	4825	4826	4831	458
15°	4621	4626	4624	4628	4637	1303
25°	4202	4207	4212	4224	4232	1936
35°	3659	3655	3668	3682	3697	2288
45°	3024	3023	3037	3052	3068	2333
55°	2326	2323	2337	2353	2375	2079
65°	1584	1578	1589	1603	1620	1567
75°	828	821	825	829	844	878
85°	186	181	183	181	184	223
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4852.3	4852.3	4852.3	4852.3	4852.3
2.5°	4844.3	4852.3	4842.3	4844.3	4853.4
5°	4821.2	4830.2	4825.2	4826.2	4831.3
7.5°	4789.1	4801.1	4794.1	4796.1	4801.1
10°	4750.9	4759.9	4751.9	4756.9	4766.0
12.5°	4696.6	4700.6	4696.6	4698.6	4708.7
15°	4621.3	4626.3	4624.3	4628.3	4637.4
17.5°	4532.9	4538.9	4537.9	4545.9	4553.0
20°	4437.4	4438.4	4442.5	4450.5	4458.5
22.5°	4324.9	4327.9	4332.0	4343.0	4351.0
25°	4202.4	4207.4	4212.4	4223.5	4231.5
27.5°	4072.8	4077.8	4084.8	4096.9	4109.9
30°	3940.1	3940.1	3953.2	3965.3	3977.3
32.5°	3806.5	3801.5	3813.6	3828.6	3857.8
35°	3658.9	3654.8	3667.9	3682.0	3697.0
37.5°	3505.1	3502.1	3517.2	3532.3	3546.3
40°	3349.4	3345.4	3360.5	3375.5	3390.6
42.5°	3189.7	3187.7	3201.7	3216.8	3232.9
45°	3023.9	3022.9	3037.0	3052.1	3068.1
47.5°	2855.1	2853.1	2867.2	2883.3	2897.3
50°	2682.4	2680.3	2694.4	2710.5	2725.6
52.5°	2504.5	2504.5	2517.6	2531.7	2554.8
55°	2325.7	2322.7	2336.8	2352.8	2374.9
57.5°	2144.9	2140.9	2153.9	2170.0	2190.1
60°	1960.0	1956.0	1968.1	1984.1	2012.3
62.5°	1773.2	1767.1	1779.2	1794.3	1811.3
65°	1584.3	1578.3	1589.3	1603.4	1619.5
67.5°	1394.4	1387.4	1398.4	1410.5	1425.6
70°	1203.5	1196.5	1204.5	1216.6	1230.7
72.5°	1013.7	1006.6	1013.7	1018.7	1035.8
75°	827.8	820.8	824.8	828.8	843.9
77.5°	647.0	639.9	648.0	650.0	659.0
80°	477.2	470.2	475.2	476.2	483.2
82.5°	322.5	316.5	323.5	318.5	324.5
85°	185.9	180.8	182.8	180.8	183.8
87.5°	73.3	69.3	70.3	66.3	66.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)