

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: P834963

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834963
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-LD4-3HI-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

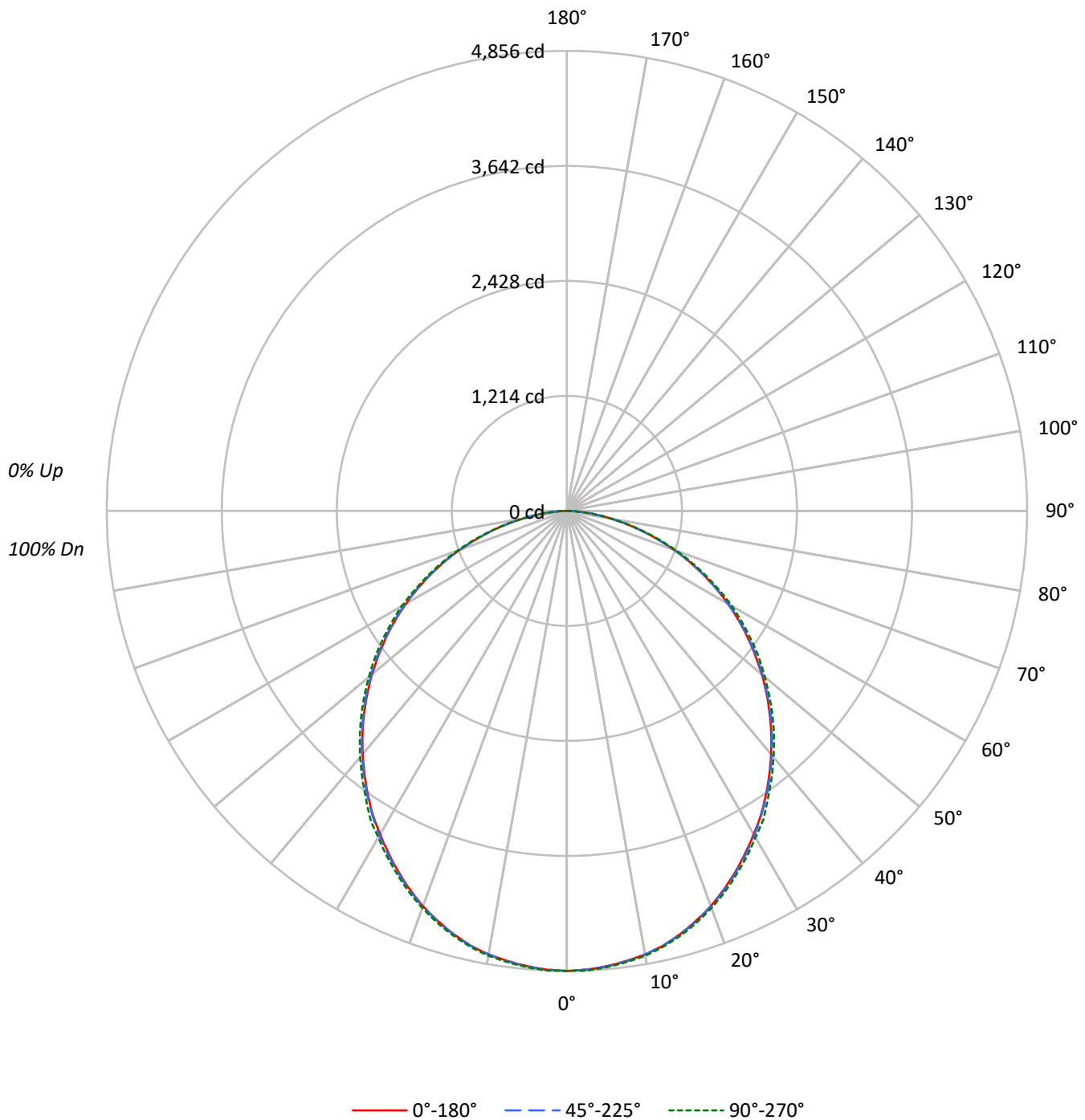
Lumens per Lamp: N/A
Luminaire Lumens: 13120.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6533	6533	6533
5°	6516	6521	6529
10°	6495	6496	6516
15°	6441	6446	6464
20°	6358	6365	6388
25°	6243	6258	6286
30°	6126	6146	6183
35°	6014	6029	6076
40°	5887	5906	5959
45°	5758	5782	5842
50°	5618	5644	5709
55°	5459	5485	5575
60°	5278	5299	5419
65°	5047	5063	5159
70°	4738	4742	4845
75°	4306	4290	4390
80°	3700	3684	3746
85°	2871	2825	2841

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.8	3.5
10°-20°	1305.1	9.9
20°-30°	1943.0	14.8
30°-40°	2297.7	17.5
40°-50°	2345.7	17.9
50°-60°	2093.4	16.0
60°-70°	1576.7	12.0
70°-80°	879.3	6.7
80°-90°	220.3	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°	3706.9	28.3
0°-40°	6004.7	45.8
0°-60°	10443.7	79.6
0°-90°	13120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4856	4856	4856	4856	4856	
5°	4824	4833	4828	4829	4834	458
15°	4624	4629	4627	4631	4640	1303
25°	4205	4210	4215	4226	4234	1937
35°	3661	3657	3670	3684	3699	2290
45°	3026	3025	3039	3054	3070	2334
55°	2327	2324	2338	2354	2376	2080
65°	1585	1579	1590	1604	1620	1568
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°	4855.5	4855.5	4855.5	4855.5	4855.5
2.5°	4847.4	4855.5	4845.4	4847.4	4856.5
5°	4824.3	4833.4	4828.3	4829.3	4834.4
7.5°	4792.1	4804.2	4797.2	4799.2	4804.2
10°	4753.9	4763.0	4754.9	4760.0	4769.0
12.5°	4699.7	4703.7	4699.7	4701.7	4711.7
15°	4624.3	4629.3	4627.3	4631.3	4640.3
17.5°	4535.8	4541.8	4540.8	4548.9	4555.9
20°	4440.3	4441.3	4445.3	4453.4	4461.4
22.5°	4327.7	4330.7	4334.7	4345.8	4353.8
25°	4205.1	4210.1	4215.1	4226.2	4234.2
27.5°	4075.4	4080.4	4087.4	4099.5	4112.6
30°	3942.7	3942.7	3955.8	3967.8	3979.9
32.5°	3809.0	3804.0	3816.0	3831.1	3860.3
35°	3661.2	3657.2	3670.3	3684.3	3699.4
37.5°	3507.4	3504.4	3519.5	3534.5	3548.6
40°	3351.6	3347.6	3362.6	3377.7	3392.8
42.5°	3191.7	3189.7	3203.8	3218.9	3235.0
45°	3025.9	3024.9	3038.9	3054.0	3070.1
47.5°	2857.0	2855.0	2869.1	2885.1	2899.2
50°	2684.1	2682.1	2696.1	2712.2	2727.3
52.5°	2506.1	2506.1	2519.2	2533.3	2556.4
55°	2327.2	2324.2	2338.3	2354.4	2376.5
57.5°	2146.3	2142.2	2155.3	2171.4	2191.5
60°	1961.3	1957.3	1969.3	1985.4	2013.6
62.5°	1774.3	1768.3	1780.3	1795.4	1812.5
65°	1585.3	1579.3	1590.3	1604.4	1620.5
67.5°	1395.3	1388.3	1399.3	1411.4	1426.5
70°	1204.3	1197.3	1205.3	1217.4	1231.5
72.5°	1014.3	1007.3	1014.3	1019.3	1036.4
75°	828.3	821.3	825.3	829.4	844.4
77.5°	647.4	640.4	648.4	650.4	659.5
80°	477.5	470.5	475.5	476.5	483.5
82.5°	322.7	316.7	323.7	318.7	324.7
85°	186.0	180.9	183.0	180.9	184.0
87.5°	73.4	69.4	70.4	66.3	66.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)