

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: P835623

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835623
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-LD4-1HI-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

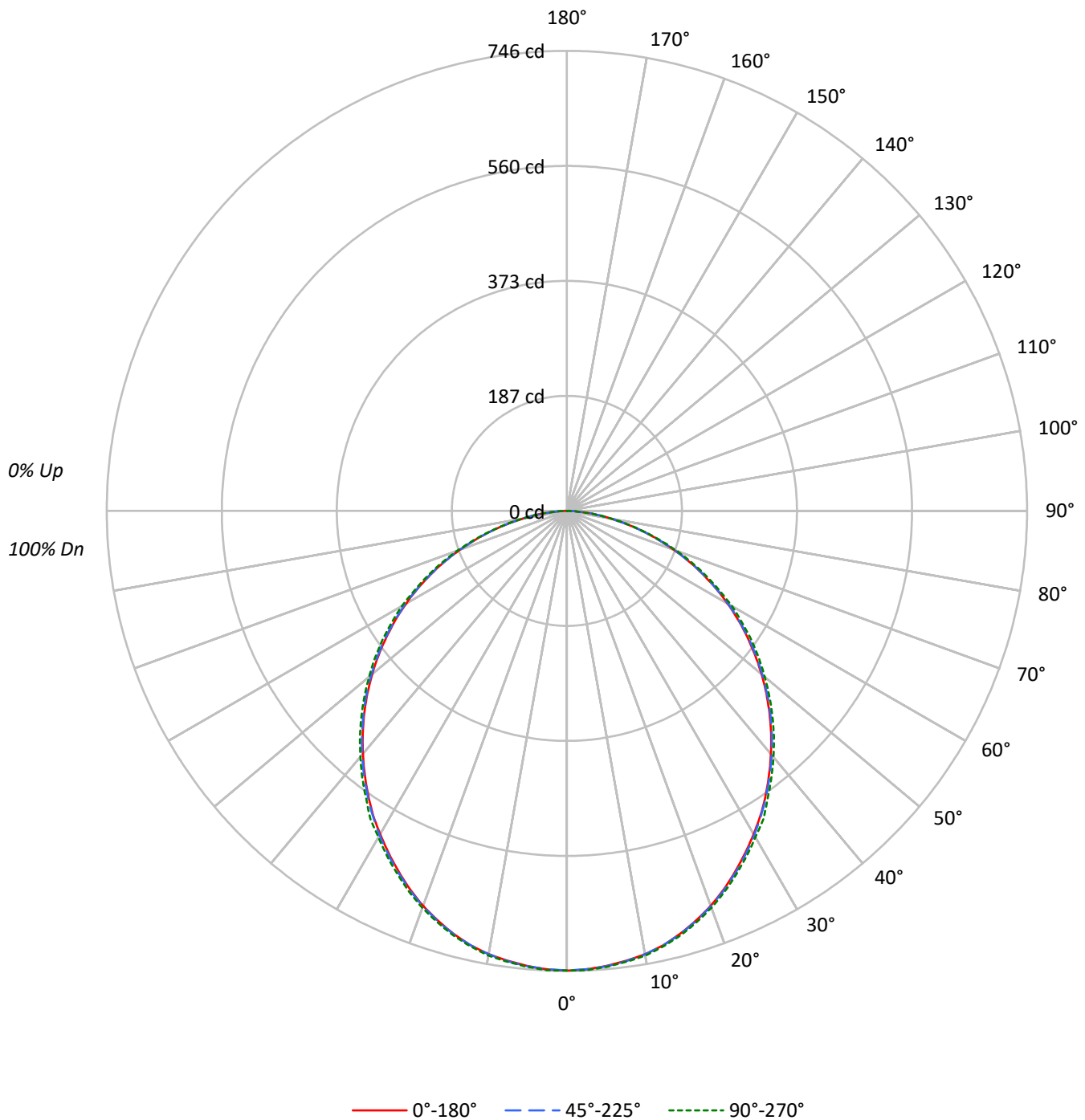
Lumens per Lamp: N/A
Luminaire Lumens: 2014.1 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2006	2006	2006
5°	2001	2002	2005
10°	1994	1995	2000
15°	1978	1979	1985
20°	1952	1954	1961
25°	1917	1921	1930
30°	1881	1887	1899
35°	1846	1851	1866
40°	1807	1813	1829
45°	1768	1775	1794
50°	1725	1733	1753
55°	1676	1684	1711
60°	1621	1627	1664
65°	1550	1554	1584
70°	1455	1456	1487
75°	1323	1317	1347
80°	1136	1131	1150
85°	880	868	871

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.5
10°-20°	200.4	9.9
20°-30°	298.3	14.8
30°-40°	352.7	17.5
40°-50°	360.1	17.9
50°-60°	321.4	16.0
60°-70°	242.0	12.0
70°-80°	135.0	6.7
80°-90°	33.8	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°	569.1	28.3
0°-40°	921.8	45.8
0°-60°	1603.2	79.6
0°-90°	2014.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	741	742	741	741	742	70
15°	710	711	710	711	712	200
25°	646	646	647	649	650	297
35°	562	561	563	566	568	351
45°	464	464	466	469	471	358
55°	357	357	359	361	365	319
65°	243	242	244	246	249	241
75°	127	126	127	127	130	135
85°	28	28	28	28	28	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.4	745.4	745.4	745.4	745.4
2.5°	744.1	745.4	743.8	744.1	745.5
5°	740.6	742.0	741.2	741.4	742.1
7.5°	735.7	737.5	736.4	736.7	737.5
10°	729.8	731.2	730.0	730.7	732.1
12.5°	721.5	722.1	721.5	721.8	723.3
15°	709.9	710.7	710.4	711.0	712.4
17.5°	696.3	697.2	697.1	698.3	699.4
20°	681.6	681.8	682.4	683.7	684.9
22.5°	664.4	664.8	665.4	667.1	668.4
25°	645.5	646.3	647.1	648.8	650.0
27.5°	625.6	626.4	627.5	629.3	631.3
30°	605.3	605.3	607.3	609.1	611.0
32.5°	584.7	584.0	585.8	588.1	592.6
35°	562.0	561.4	563.4	565.6	567.9
37.5°	538.4	538.0	540.3	542.6	544.8
40°	514.5	513.9	516.2	518.5	520.8
42.5°	490.0	489.7	491.8	494.1	496.6
45°	464.5	464.4	466.5	468.8	471.3
47.5°	438.6	438.3	440.4	442.9	445.1
50°	412.0	411.7	413.9	416.4	418.7
52.5°	384.7	384.7	386.7	388.9	392.4
55°	357.3	356.8	359.0	361.4	364.8
57.5°	329.5	328.9	330.9	333.3	336.4
60°	301.1	300.5	302.3	304.8	309.1
62.5°	272.4	271.5	273.3	275.6	278.2
65°	243.4	242.4	244.1	246.3	248.8
67.5°	214.2	213.1	214.8	216.7	219.0
70°	184.9	183.8	185.0	186.9	189.0
72.5°	155.7	154.6	155.7	156.5	159.1
75°	127.2	126.1	126.7	127.3	129.6
77.5°	99.4	98.3	99.5	99.8	101.2
80°	73.3	72.2	73.0	73.1	74.2
82.5°	49.5	48.6	49.7	48.9	49.8
85°	28.5	27.8	28.1	27.8	28.2
87.5°	11.3	10.6	10.8	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)