

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: P835674

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835674
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-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

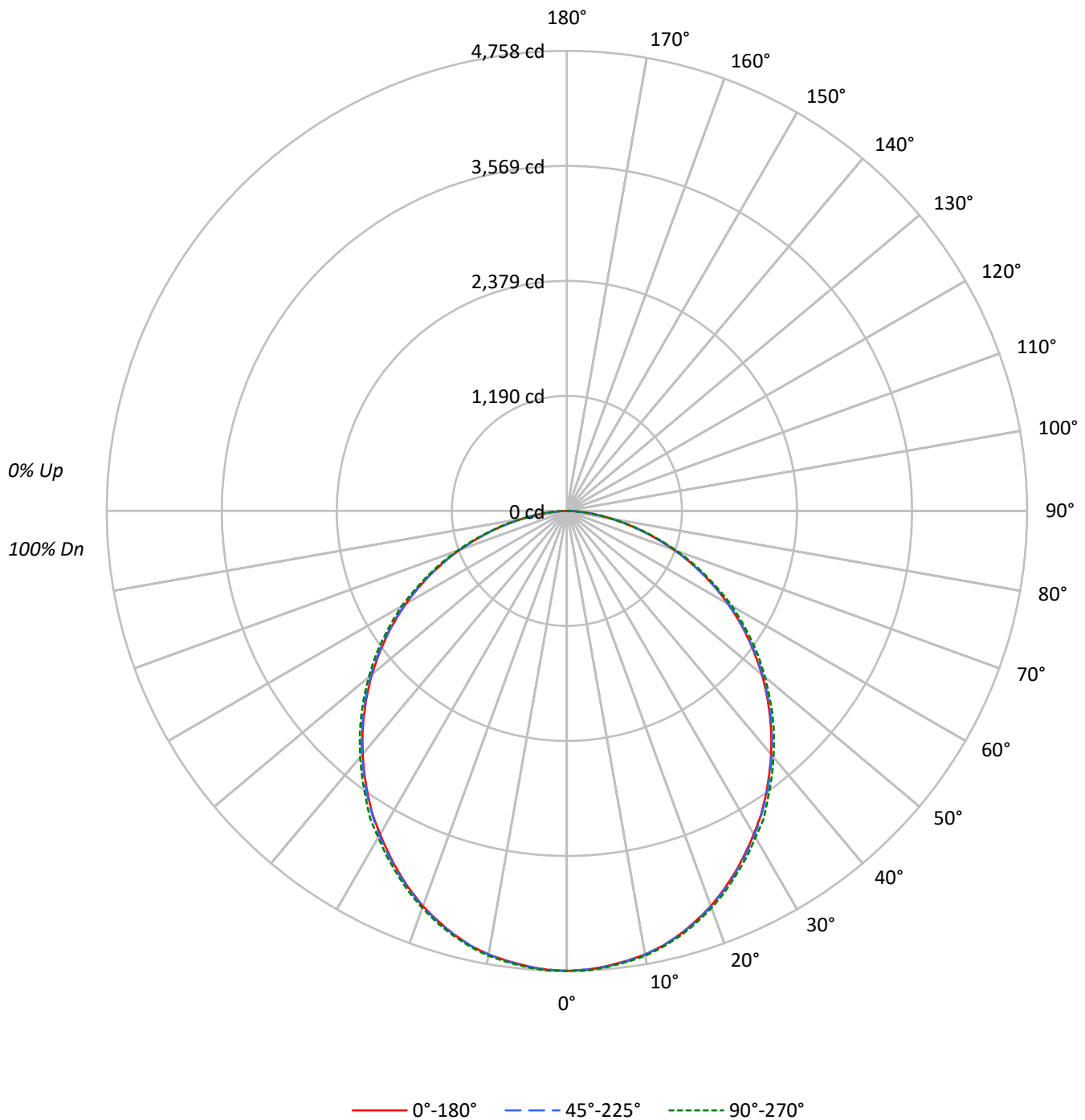
Lumens per Lamp: N/A
Luminaire Lumens: 12854.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	12802	12802	12802
5°	12768	12779	12795
10°	12727	12730	12768
15°	12622	12630	12666
20°	12458	12472	12517
25°	12233	12262	12318
30°	12003	12043	12116
35°	11784	11813	11907
40°	11535	11573	11677
45°	11282	11331	11447
50°	11009	11059	11187
55°	10697	10748	10924
60°	10342	10384	10618
65°	9890	9922	10110
70°	9283	9291	9493
75°	8438	8407	8602
80°	7249	7220	7342
85°	5626	5536	5564

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	3.5
10°-20°	1278.7	9.9
20°-30°	1903.6	14.8
30°-40°	2251.2	17.5
40°-50°	2298.2	17.9
50°-60°	2051.0	16.0
60°-70°	1544.8	12.0
70°-80°	861.5	6.7
80°-90°	215.8	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°	3631.9	28.3
0°-40°	5883.1	45.8
0°-60°	10232.3	79.6
0°-90°	12854.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12854.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4757	4757	4757	4757	4757	
5°	4727	4736	4731	4732	4736	449
15°	4531	4536	4534	4538	4546	1277
25°	4120	4125	4130	4141	4148	1898
35°	3587	3583	3596	3610	3624	2243
45°	2965	2964	2977	2992	3008	2287
55°	2280	2277	2291	2307	2328	2038
65°	1553	1547	1558	1572	1588	1536
75°	812	805	809	813	827	860
85°	182	177	179	177	180	219
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4757.2	4757.2	4757.2	4757.2	4757.2
2.5°	4749.3	4757.2	4747.4	4749.3	4758.2
5°	4726.7	4735.5	4730.6	4731.6	4736.5
7.5°	4695.2	4707.0	4700.1	4702.0	4707.0
10°	4657.7	4666.6	4658.7	4663.6	4672.5
12.5°	4604.5	4608.5	4604.5	4606.5	4616.4
15°	4530.7	4535.6	4533.6	4537.6	4546.4
17.5°	4444.0	4449.9	4448.9	4456.8	4463.7
20°	4350.4	4351.4	4355.4	4363.2	4371.1
22.5°	4240.1	4243.1	4247.0	4257.8	4265.7
25°	4120.0	4124.9	4129.8	4140.6	4148.5
27.5°	3992.9	3997.8	4004.7	4016.5	4029.3
30°	3862.9	3862.9	3875.7	3887.5	3899.3
32.5°	3731.9	3727.0	3738.8	3753.6	3782.1
35°	3587.1	3583.2	3596.0	3609.8	3624.5
37.5°	3436.4	3433.5	3448.2	3463.0	3476.8
40°	3283.8	3279.8	3294.6	3309.4	3324.1
42.5°	3127.1	3125.2	3139.0	3153.7	3169.5
45°	2964.6	2963.6	2977.4	2992.2	3008.0
47.5°	2799.2	2797.2	2811.0	2826.7	2840.5
50°	2629.8	2627.8	2641.6	2657.3	2672.1
52.5°	2455.4	2455.4	2468.2	2482.0	2504.7
55°	2280.1	2277.2	2290.9	2306.7	2328.4
57.5°	2102.8	2098.9	2111.7	2127.4	2147.1
60°	1921.6	1917.7	1929.5	1945.2	1972.8
62.5°	1738.4	1732.5	1744.3	1759.1	1775.8
65°	1553.2	1547.3	1558.2	1571.9	1587.7
67.5°	1367.1	1360.2	1371.0	1382.8	1397.6
70°	1179.9	1173.0	1180.9	1192.7	1206.5
72.5°	993.8	986.9	993.8	998.7	1015.5
75°	811.6	804.7	808.6	812.6	827.3
77.5°	634.3	627.4	635.3	637.2	646.1
80°	467.8	460.9	465.9	466.9	473.8
82.5°	316.2	310.3	317.1	312.2	318.1
85°	182.2	177.3	179.3	177.3	180.2
87.5°	71.9	68.0	68.9	65.0	65.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)