

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: P834432

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3HI-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

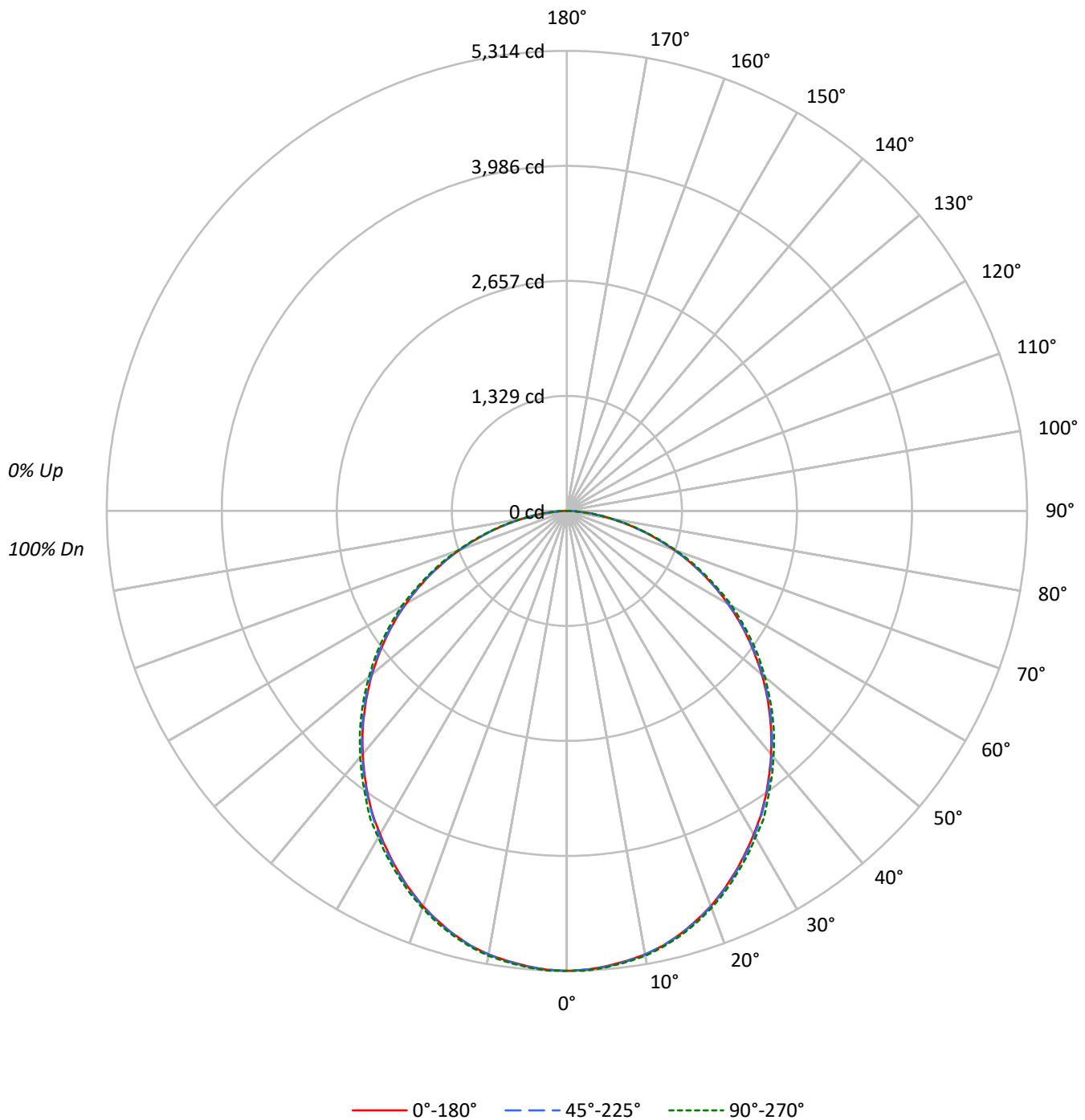
Lumens per Lamp: N/A
Luminaire Lumens: 14356.8 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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°	14298	14298	14298
5°	14260	14272	14290
10°	14215	14218	14260
15°	14097	14106	14146
20°	13914	13930	13980
25°	13662	13695	13757
30°	13406	13450	13532
35°	13161	13194	13298
40°	12883	12926	13042
45°	12601	12655	12785
50°	12296	12351	12494
55°	11948	12004	12200
60°	11551	11598	11859
65°	11046	11081	11291
70°	10368	10377	10602
75°	9424	9390	9607
80°	8097	8063	8199
85°	6283	6181	6215

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.1	3.5
10°-20°	1428.2	9.9
20°-30°	2126.1	14.8
30°-40°	2514.3	17.5
40°-50°	2566.8	17.9
50°-60°	2290.7	16.0
60°-70°	1725.4	12.0
70°-80°	962.2	6.7
80°-90°	241.0	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°	4056.4	28.3
0°-40°	6570.7	45.8
0°-60°	11428.2	79.6
0°-90°	14356.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14356.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5313	5313	5313	5313	5313	
5°	5279	5289	5284	5285	5290	501
15°	5060	5066	5064	5068	5078	1426
25°	4601	4607	4612	4624	4633	2120
35°	4006	4002	4016	4032	4048	2505
45°	3311	3310	3325	3342	3360	2554
55°	2547	2543	2559	2576	2600	2276
65°	1735	1728	1740	1756	1773	1716
75°	906	899	903	908	924	961
85°	204	198	200	198	201	244
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5313.2	5313.2	5313.2	5313.2	5313.2
2.5°	5304.4	5313.2	5302.2	5304.4	5314.3
5°	5279.1	5289.0	5283.5	5284.6	5290.1
7.5°	5243.9	5257.1	5249.4	5251.6	5257.1
10°	5202.1	5212.0	5203.2	5208.7	5218.6
12.5°	5142.7	5147.1	5142.7	5144.9	5155.9
15°	5060.2	5065.7	5063.5	5067.9	5077.8
17.5°	4963.4	4970.0	4968.9	4977.7	4985.4
20°	4858.9	4860.0	4864.4	4873.2	4882.0
22.5°	4735.7	4739.0	4743.4	4755.5	4764.3
25°	4601.4	4606.9	4612.4	4624.5	4633.3
27.5°	4459.5	4465.0	4472.7	4485.9	4500.2
30°	4314.3	4314.3	4328.6	4341.8	4355.0
32.5°	4168.0	4162.5	4175.7	4192.2	4224.1
35°	4006.3	4001.9	4016.2	4031.6	4048.1
37.5°	3838.0	3834.7	3851.2	3867.7	3883.1
40°	3667.5	3663.1	3679.6	3696.1	3712.6
42.5°	3492.6	3490.4	3505.8	3522.3	3539.9
45°	3311.1	3310.0	3325.4	3341.9	3359.5
47.5°	3126.3	3124.1	3139.5	3157.1	3172.5
50°	2937.1	2934.9	2950.3	2967.9	2984.4
52.5°	2742.4	2742.4	2756.7	2772.1	2797.4
55°	2546.6	2543.3	2558.7	2576.3	2600.5
57.5°	2348.6	2344.2	2358.5	2376.1	2398.1
60°	2146.2	2141.8	2155.0	2172.6	2203.4
62.5°	1941.6	1935.0	1948.2	1964.7	1983.4
65°	1734.8	1728.2	1740.3	1755.7	1773.3
67.5°	1526.8	1519.1	1531.2	1544.4	1561.0
70°	1317.8	1310.1	1318.9	1332.1	1347.5
72.5°	1109.9	1102.2	1109.9	1115.4	1134.1
75°	906.4	898.7	903.1	907.5	924.0
77.5°	708.4	700.7	709.5	711.7	721.6
80°	522.5	514.8	520.3	521.4	529.1
82.5°	353.1	346.5	354.2	348.7	355.3
85°	203.5	198.0	200.2	198.0	201.3
87.5°	80.3	75.9	77.0	72.6	72.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)