

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: P834414

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834414
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-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

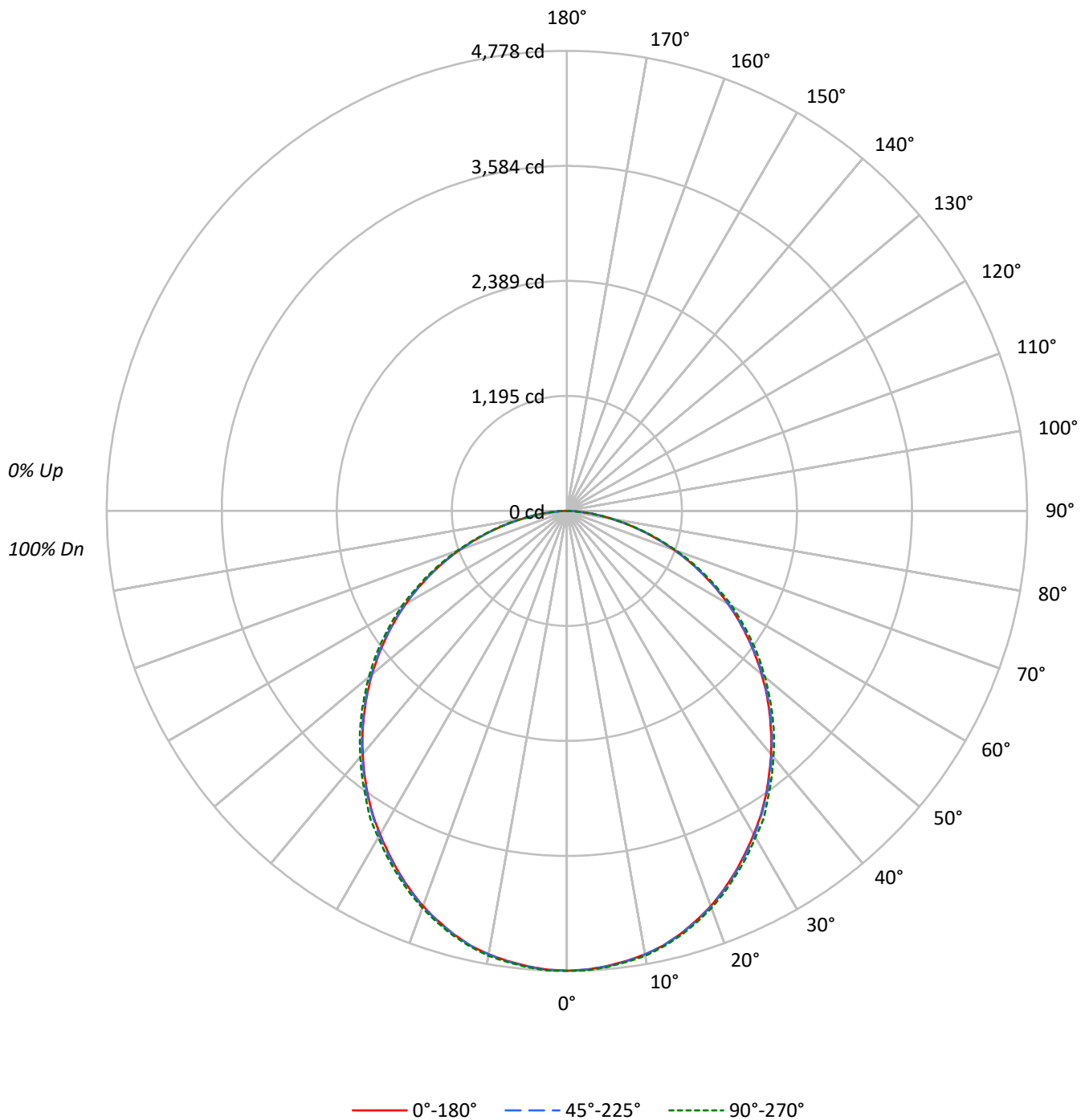
Lumens per Lamp: N/A
Luminaire Lumens: 12906.6 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	12853	12853	12853
5°	12820	12830	12846
10°	12779	12782	12819
15°	12673	12681	12717
20°	12509	12523	12568
25°	12283	12312	12367
30°	12052	12092	12165
35°	11832	11861	11955
40°	11582	11620	11724
45°	11328	11377	11494
50°	11054	11104	11232
55°	10741	10792	10968
60°	10384	10426	10661
65°	9930	9962	10150
70°	9321	9329	9531
75°	8473	8441	8637
80°	7279	7249	7372
85°	5650	5558	5588

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.4	3.5
10°-20°	1283.9	9.9
20°-30°	1911.4	14.8
30°-40°	2260.4	17.5
40°-50°	2307.5	17.9
50°-60°	2059.3	16.0
60°-70°	1551.1	12.0
70°-80°	865.0	6.7
80°-90°	216.7	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°	3646.6	28.3
0°-40°	5907.0	45.8
0°-60°	10273.8	79.6
0°-90°	12906.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12906.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4776	4776	4776	4776	4776	
5°	4746	4755	4750	4751	4756	451
15°	4549	4554	4552	4556	4565	1282
25°	4137	4142	4146	4157	4165	1906
35°	3602	3598	3610	3624	3639	2252
45°	2977	2976	2990	3004	3020	2296
55°	2289	2286	2300	2316	2338	2046
65°	1560	1554	1564	1578	1594	1542
75°	815	808	812	816	831	864
85°	183	178	180	178	181	220
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4776.5	4776.5	4776.5	4776.5	4776.5
2.5°	4768.6	4776.5	4766.6	4768.6	4777.5
5°	4745.8	4754.7	4749.8	4750.8	4755.7
7.5°	4714.2	4726.1	4719.1	4721.1	4726.1
10°	4676.6	4685.5	4677.6	4682.5	4691.4
12.5°	4623.2	4627.2	4623.2	4625.2	4635.1
15°	4549.0	4554.0	4552.0	4556.0	4564.9
17.5°	4462.0	4467.9	4467.0	4474.9	4481.8
20°	4368.1	4369.1	4373.0	4380.9	4388.8
22.5°	4257.3	4260.3	4264.2	4275.1	4283.0
25°	4136.7	4141.6	4146.5	4157.4	4165.3
27.5°	4009.1	4014.0	4021.0	4032.8	4045.7
30°	3878.5	3878.5	3891.4	3903.3	3915.1
32.5°	3747.0	3742.1	3753.9	3768.8	3797.5
35°	3601.6	3597.7	3610.5	3624.4	3639.2
37.5°	3450.3	3447.4	3462.2	3477.0	3490.9
40°	3297.1	3293.1	3307.9	3322.8	3337.6
42.5°	3139.8	3137.8	3151.7	3166.5	3182.3
45°	2976.7	2975.7	2989.5	3004.3	3020.2
47.5°	2810.5	2808.5	2822.4	2838.2	2852.0
50°	2640.4	2638.4	2652.3	2668.1	2682.9
52.5°	2465.4	2465.4	2478.2	2492.1	2514.8
55°	2289.4	2286.4	2300.2	2316.1	2337.8
57.5°	2111.3	2107.4	2120.2	2136.1	2155.8
60°	1929.4	1925.4	1937.3	1953.1	1980.8
62.5°	1745.4	1739.5	1751.4	1766.2	1783.0
65°	1559.5	1553.6	1564.5	1578.3	1594.1
67.5°	1372.6	1365.7	1376.6	1388.4	1403.3
70°	1184.7	1177.8	1185.7	1197.6	1211.4
72.5°	997.8	990.9	997.8	1002.8	1019.6
75°	814.9	807.9	811.9	815.9	830.7
77.5°	636.9	629.9	637.9	639.8	648.7
80°	469.7	462.8	467.8	468.7	475.7
82.5°	317.4	311.5	318.4	313.5	319.4
85°	183.0	178.0	180.0	178.0	181.0
87.5°	72.2	68.2	69.2	65.3	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)