

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: P834449

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834449
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-LD4-3STD-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

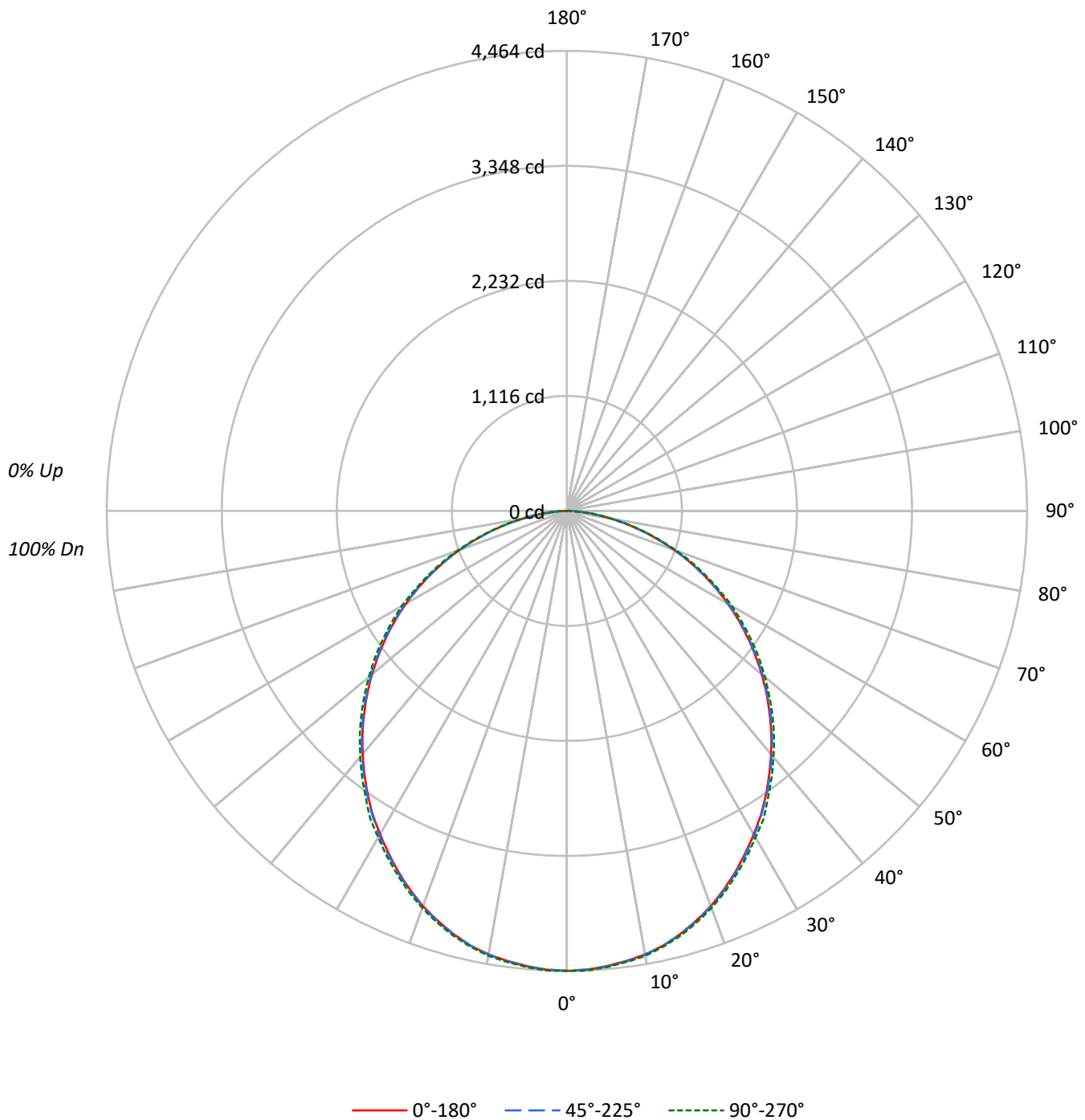
Lumens per Lamp: N/A
Luminaire Lumens: 12059.6 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	12010	12010	12010
5°	11978	11988	12003
10°	11940	11943	11978
15°	11841	11849	11883
20°	11688	11701	11743
25°	11476	11504	11556
30°	11261	11298	11367
35°	11055	11083	11171
40°	10822	10858	10955
45°	10585	10630	10739
50°	10328	10375	10495
55°	10036	10084	10248
60°	9703	9742	9961
65°	9279	9308	9484
70°	8710	8717	8906
75°	7916	7887	8070
80°	6802	6774	6888
85°	5277	5193	5221

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	3.5
10°-20°	1199.7	9.9
20°-30°	1785.9	14.8
30°-40°	2112.0	17.5
40°-50°	2156.1	17.9
50°-60°	1924.2	16.0
60°-70°	1449.3	12.0
70°-80°	808.2	6.7
80°-90°	202.5	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°	3407.3	28.3
0°-40°	5519.4	45.8
0°-60°	9599.6	79.6
0°-90°	12059.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12059.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4463	4463	4463	4463	4463	
5°	4434	4443	4438	4439	4444	421
15°	4250	4255	4253	4257	4265	1198
25°	3865	3870	3874	3885	3892	1781
35°	3365	3362	3374	3387	3400	2104
45°	2781	2780	2793	2807	2822	2146
55°	2139	2136	2149	2164	2184	1912
65°	1457	1452	1462	1475	1490	1441
75°	761	755	759	762	776	807
85°	171	166	168	166	169	205
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4463.0	4463.0	4463.0	4463.0	4463.0
2.5°	4455.7	4463.0	4453.8	4455.7	4464.0
5°	4434.4	4442.7	4438.1	4439.0	4443.6
7.5°	4404.8	4415.9	4409.4	4411.3	4415.9
10°	4369.7	4378.0	4370.6	4375.3	4383.6
12.5°	4319.8	4323.5	4319.8	4321.7	4330.9
15°	4250.5	4255.1	4253.3	4257.0	4265.3
17.5°	4169.2	4174.7	4173.8	4181.2	4187.7
20°	4081.4	4082.3	4086.0	4093.4	4100.8
22.5°	3977.9	3980.7	3984.4	3994.6	4002.0
25°	3865.2	3869.8	3874.4	3884.6	3892.0
27.5°	3746.0	3750.6	3757.1	3768.2	3780.2
30°	3624.0	3624.0	3636.0	3647.1	3658.2
32.5°	3501.1	3496.5	3507.6	3521.5	3548.3
35°	3365.3	3361.6	3373.6	3386.6	3400.4
37.5°	3223.9	3221.2	3235.0	3248.9	3261.8
40°	3080.7	3077.0	3090.9	3104.7	3118.6
42.5°	2933.8	2931.9	2944.9	2958.7	2973.5
45°	2781.3	2780.4	2793.3	2807.2	2822.0
47.5°	2626.1	2624.2	2637.2	2652.0	2664.9
50°	2467.1	2465.3	2478.2	2493.0	2506.9
52.5°	2303.6	2303.6	2315.6	2328.5	2349.8
55°	2139.1	2136.3	2149.3	2164.1	2184.4
57.5°	1972.8	1969.1	1981.1	1995.9	2014.4
60°	1802.8	1799.1	1810.2	1825.0	1850.8
62.5°	1630.9	1625.4	1636.4	1650.3	1666.0
65°	1457.2	1451.6	1461.8	1474.7	1489.5
67.5°	1282.5	1276.1	1286.2	1297.3	1311.2
70°	1107.0	1100.5	1107.9	1119.0	1131.9
72.5°	932.3	925.9	932.3	937.0	952.7
75°	761.4	754.9	758.6	762.3	776.2
77.5°	595.1	588.6	596.0	597.8	606.2
80°	438.9	432.4	437.1	438.0	444.5
82.5°	296.6	291.1	297.5	292.9	298.5
85°	170.9	166.3	168.2	166.3	169.1
87.5°	67.5	63.8	64.7	61.0	61.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)