

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: P834962

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3STD-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

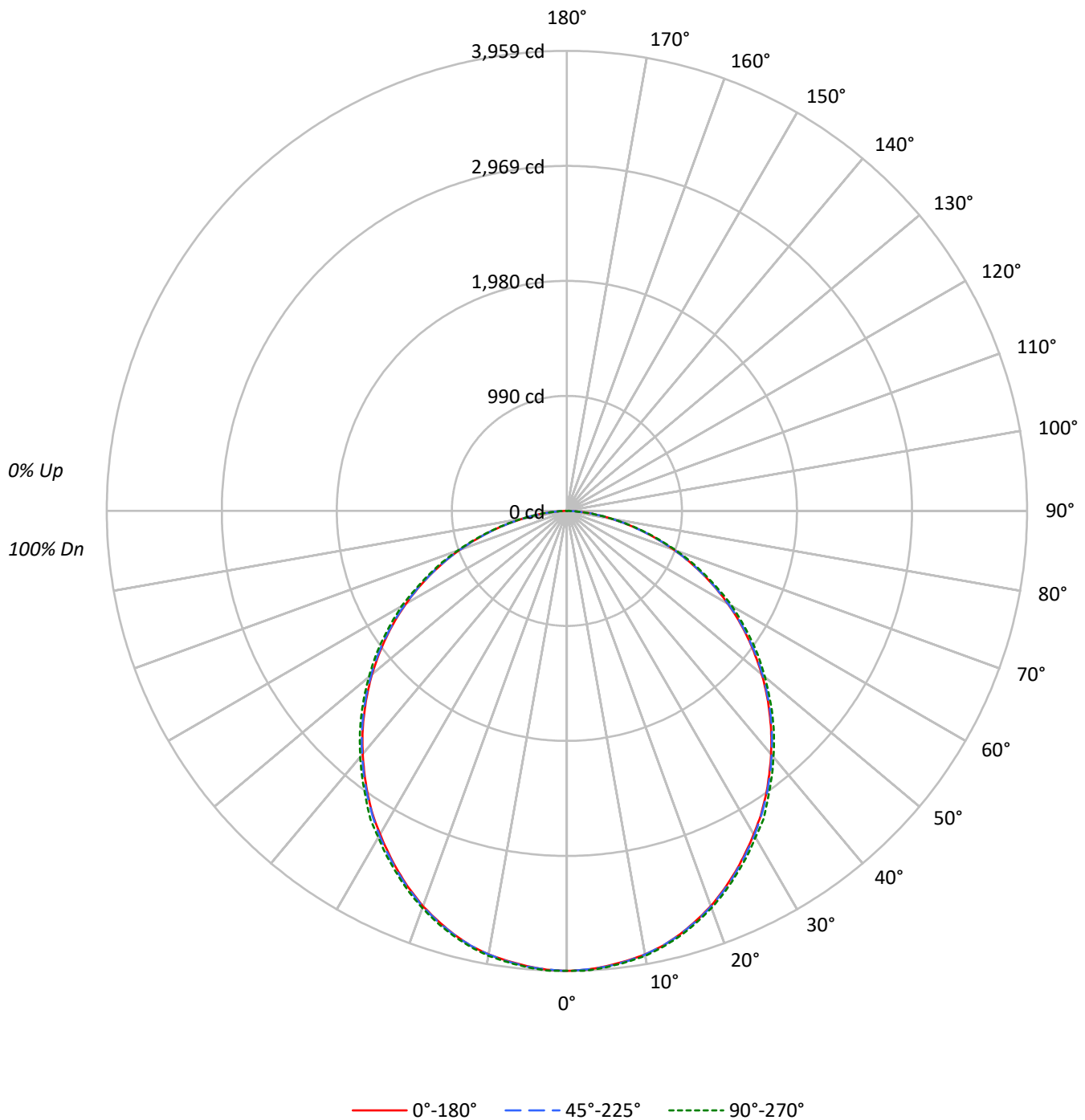
Lumens per Lamp: N/A
Luminaire Lumens: 10695.9 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5326	5326	5326
5°	5312	5316	5323
10°	5295	5296	5312
15°	5251	5255	5270
20°	5183	5189	5208
25°	5089	5101	5125
30°	4994	5010	5041
35°	4903	4915	4954
40°	4799	4815	4858
45°	4694	4714	4763
50°	4580	4601	4654
55°	4450	4472	4545
60°	4303	4320	4417
65°	4115	4128	4206
70°	3862	3865	3949
75°	3511	3498	3579
80°	3016	3003	3054
85°	2340	2303	2316

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	3.5
10°-20°	1064.0	9.9
20°-30°	1584.0	14.8
30°-40°	1873.2	17.5
40°-50°	1912.3	17.9
50°-60°	1706.6	16.0
60°-70°	1285.4	12.0
70°-80°	716.8	6.7
80°-90°	179.6	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°	3022.0	28.3
0°-40°	4895.2	45.8
0°-60°	8514.1	79.6
0°-90°	10695.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10695.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3958	3958	3958	3958	3958	
5°	3933	3940	3936	3937	3941	374
15°	3770	3774	3772	3776	3783	1063
25°	3428	3432	3436	3445	3452	1579
35°	2985	2982	2992	3004	3016	1867
45°	2467	2466	2478	2490	2503	1903
55°	1897	1895	1906	1919	1937	1696
65°	1292	1288	1296	1308	1321	1278
75°	675	670	673	676	688	716
85°	152	148	149	148	150	182
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3958.4	3958.4	3958.4	3958.4	3958.4
2.5°	3951.8	3958.4	3950.2	3951.8	3959.2
5°	3933.0	3940.3	3936.2	3937.1	3941.2
7.5°	3906.7	3916.6	3910.8	3912.5	3916.6
10°	3875.6	3883.0	3876.4	3880.5	3887.9
12.5°	3831.3	3834.6	3831.3	3833.0	3841.2
15°	3769.9	3774.0	3772.3	3775.6	3783.0
17.5°	3697.7	3702.7	3701.8	3708.4	3714.1
20°	3619.9	3620.7	3624.0	3630.5	3637.1
22.5°	3528.1	3530.6	3533.8	3542.9	3549.4
25°	3428.1	3432.2	3436.3	3445.3	3451.9
27.5°	3322.4	3326.5	3332.2	3342.1	3352.7
30°	3214.2	3214.2	3224.9	3234.7	3244.5
32.5°	3105.2	3101.1	3111.0	3123.3	3147.0
35°	2984.8	2981.5	2992.1	3003.6	3015.9
37.5°	2859.4	2856.9	2869.2	2881.5	2893.0
40°	2732.3	2729.1	2741.3	2753.6	2765.9
42.5°	2602.0	2600.4	2611.9	2624.2	2637.3
45°	2466.8	2466.0	2477.5	2489.8	2502.9
47.5°	2329.1	2327.5	2339.0	2352.1	2363.5
50°	2188.2	2186.5	2198.0	2211.1	2223.4
52.5°	2043.1	2043.1	2053.8	2065.2	2084.1
55°	1897.2	1894.8	1906.2	1919.4	1937.4
57.5°	1749.7	1746.4	1757.1	1770.2	1786.6
60°	1598.9	1595.6	1605.5	1618.6	1641.5
62.5°	1446.5	1441.6	1451.4	1463.7	1477.6
65°	1292.4	1287.5	1296.5	1308.0	1321.1
67.5°	1137.5	1131.8	1140.8	1150.6	1162.9
70°	981.8	976.1	982.6	992.5	1003.9
72.5°	826.9	821.2	826.9	831.0	844.9
75°	675.3	669.6	672.8	676.1	688.4
77.5°	527.8	522.0	528.6	530.2	537.6
80°	389.3	383.5	387.6	388.5	394.2
82.5°	263.1	258.2	263.9	259.8	264.7
85°	151.6	147.5	149.2	147.5	150.0
87.5°	59.8	56.5	57.4	54.1	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)