

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: P835058

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835058
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-LD4-5STD-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

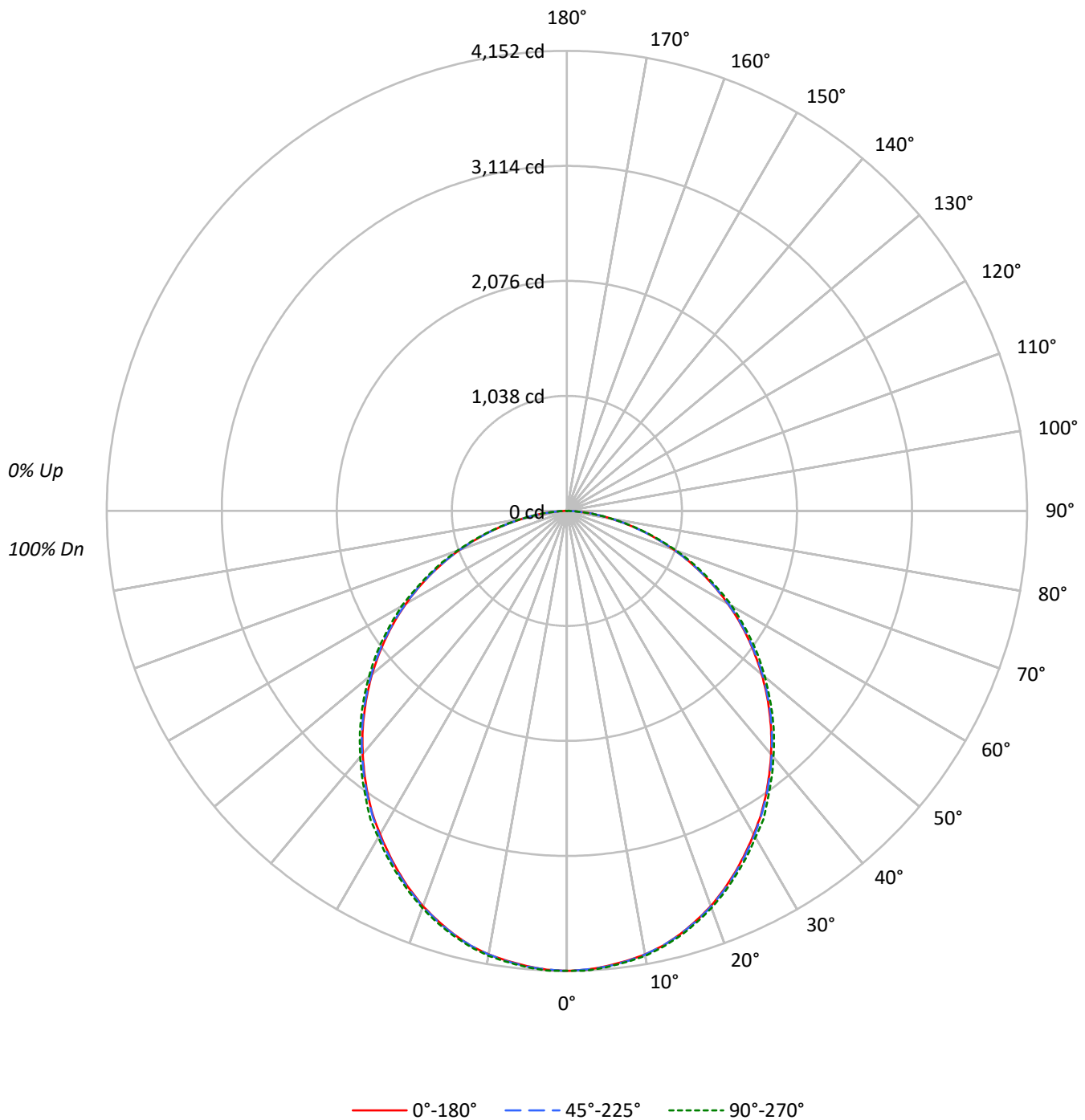
Lumens per Lamp: N/A
Luminaire Lumens: 11217.1 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	5585	5585	5585
5°	5571	5575	5582
10°	5553	5554	5571
15°	5507	5511	5526
20°	5436	5442	5461
25°	5337	5350	5374
30°	5237	5254	5286
35°	5141	5154	5195
40°	5033	5050	5095
45°	4923	4944	4994
50°	4803	4825	4881
55°	4667	4689	4766
60°	4512	4531	4633
65°	4315	4329	4411
70°	4050	4054	4142
75°	3682	3668	3753
80°	3163	3150	3203
85°	2455	2414	2428

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.3	3.5
10°-20°	1115.8	9.9
20°-30°	1661.1	14.8
30°-40°	1964.5	17.5
40°-50°	2005.4	17.9
50°-60°	1789.7	16.0
60°-70°	1348.0	12.0
70°-80°	751.8	6.7
80°-90°	188.3	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°	3169.3	28.3
0°-40°	5133.7	45.8
0°-60°	8928.9	79.6
0°-90°	11217.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11217.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4151	4151	4151	4151	4151	
5°	4125	4132	4128	4129	4133	392
15°	3954	3958	3956	3960	3967	1114
25°	3595	3599	3604	3613	3620	1656
35°	3130	3127	3138	3150	3163	1957
45°	2587	2586	2598	2611	2625	1996
55°	1990	1987	1999	2013	2032	1779
65°	1355	1350	1360	1372	1386	1341
75°	708	702	706	709	722	751
85°	159	155	156	155	157	191
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4151.2	4151.2	4151.2	4151.2	4151.2
2.5°	4144.3	4151.2	4142.6	4144.3	4152.1
5°	4124.6	4132.3	4128.0	4128.9	4133.2
7.5°	4097.1	4107.4	4101.4	4103.1	4107.4
10°	4064.4	4072.2	4065.3	4069.6	4077.3
12.5°	4018.0	4021.4	4018.0	4019.7	4028.3
15°	3953.5	3957.8	3956.1	3959.6	3967.3
17.5°	3877.9	3883.1	3882.2	3889.1	3895.1
20°	3796.3	3797.1	3800.6	3807.4	3814.3
22.5°	3700.0	3702.6	3706.0	3715.5	3722.3
25°	3595.1	3599.4	3603.7	3613.2	3620.1
27.5°	3484.3	3488.6	3494.6	3504.9	3516.1
30°	3370.8	3370.8	3382.0	3392.3	3402.6
32.5°	3256.5	3252.2	3262.5	3275.4	3300.4
35°	3130.2	3126.7	3137.9	3149.9	3162.8
37.5°	2998.7	2996.1	3009.0	3021.9	3033.9
40°	2865.5	2862.0	2874.9	2887.8	2900.7
42.5°	2728.8	2727.1	2739.1	2752.0	2765.8
45°	2587.0	2586.1	2598.2	2611.1	2624.8
47.5°	2442.6	2440.9	2452.9	2466.7	2478.7
50°	2294.8	2293.1	2305.1	2318.8	2331.7
52.5°	2142.6	2142.6	2153.8	2165.9	2185.6
55°	1989.7	1987.1	1999.1	2012.9	2031.8
57.5°	1835.0	1831.5	1842.7	1856.4	1873.6
60°	1676.8	1673.4	1683.7	1697.4	1721.5
62.5°	1517.0	1511.8	1522.1	1535.0	1549.6
65°	1355.4	1350.2	1359.7	1371.7	1385.5
67.5°	1192.9	1186.9	1196.4	1206.7	1219.6
70°	1029.6	1023.6	1030.5	1040.8	1052.8
72.5°	867.2	861.2	867.2	871.5	886.1
75°	708.2	702.2	705.6	709.1	722.0
77.5°	553.5	547.5	554.4	556.1	563.8
80°	408.2	402.2	406.5	407.4	413.4
82.5°	275.9	270.7	276.7	272.5	277.6
85°	159.0	154.7	156.4	154.7	157.3
87.5°	62.7	59.3	60.2	56.7	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)