

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: P835075

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835075
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-LD4-5LO-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

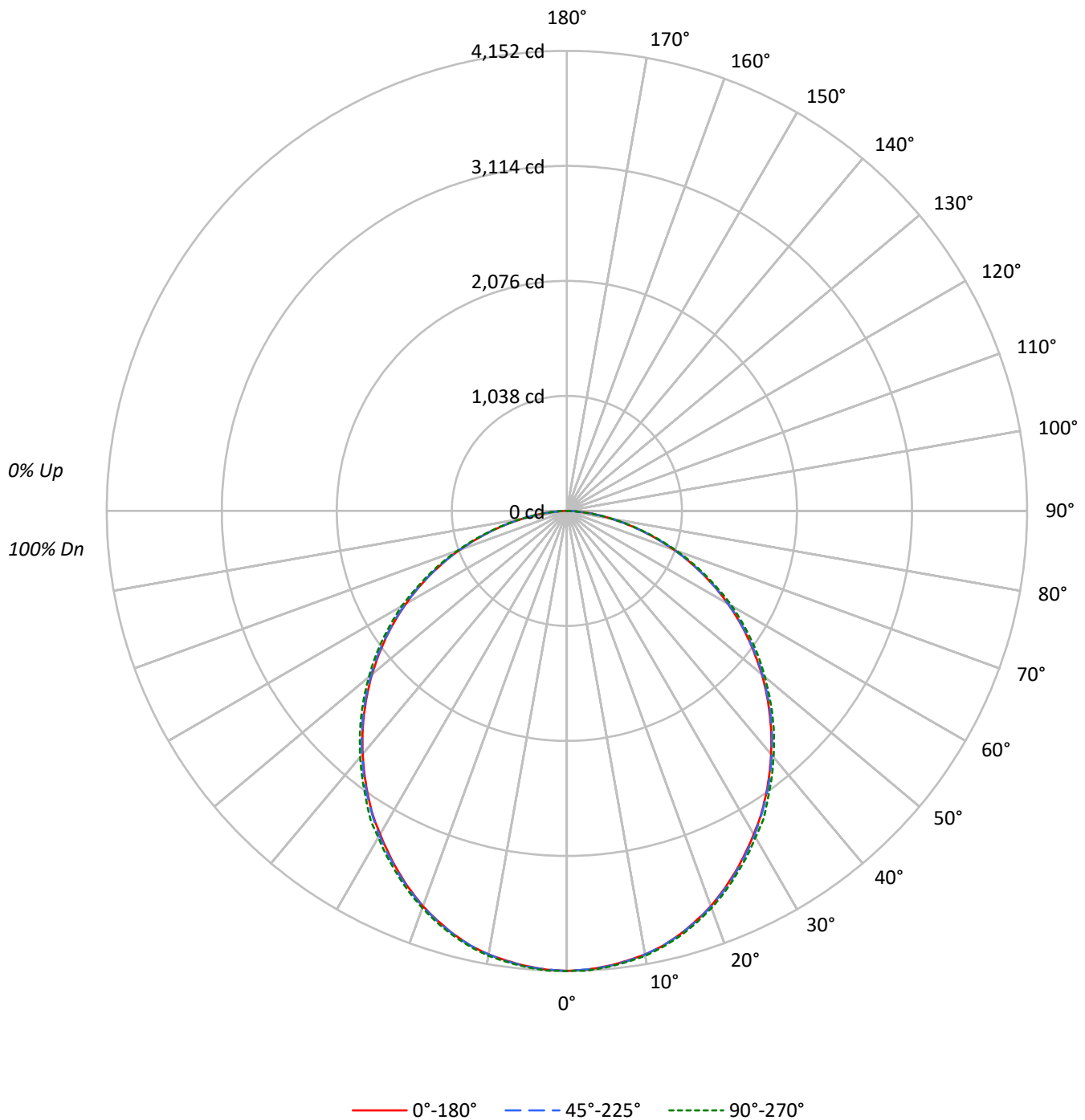
Lumens per Lamp: N/A
Luminaire Lumens: 11218.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5586	5586	5586
5°	5571	5576	5583
10°	5554	5555	5571
15°	5508	5511	5527
20°	5436	5442	5462
25°	5338	5351	5375
30°	5237	5255	5287
35°	5142	5155	5196
40°	5033	5050	5095
45°	4923	4944	4995
50°	4804	4825	4881
55°	4668	4690	4767
60°	4513	4531	4633
65°	4316	4329	4411
70°	4051	4054	4142
75°	3682	3669	3753
80°	3164	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°	1115.9	9.9
20°-30°	1661.3	14.8
30°-40°	1964.6	17.5
40°-50°	2005.6	17.9
50°-60°	1789.9	16.0
60°-70°	1348.1	12.0
70°-80°	751.8	6.7
80°-90°	188.4	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°	3169.6	28.3
0°-40°	5134.2	45.8
0°-60°	8929.7	79.6
0°-90°	11218.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11218.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4152	4152	4152	4152	4152	
5°	4125	4133	4128	4129	4134	392
15°	3954	3958	3956	3960	3968	1114
25°	3596	3600	3604	3614	3620	1656
35°	3130	3127	3138	3150	3163	1958
45°	2587	2586	2598	2611	2625	1996
55°	1990	1987	1999	2013	2032	1779
65°	1356	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°	4151.6	4151.6	4151.6	4151.6	4151.6
2.5°	4144.7	4151.6	4143.0	4144.7	4152.5
5°	4125.0	4132.7	4128.4	4129.2	4133.5
7.5°	4097.4	4107.8	4101.7	4103.5	4107.8
10°	4064.8	4072.5	4065.6	4069.9	4077.7
12.5°	4018.4	4021.8	4018.4	4020.1	4028.7
15°	3953.9	3958.2	3956.5	3959.9	3967.7
17.5°	3878.3	3883.4	3882.6	3889.4	3895.5
20°	3796.6	3797.5	3800.9	3807.8	3814.7
22.5°	3700.3	3702.9	3706.4	3715.8	3722.7
25°	3595.5	3599.8	3604.1	3613.5	3620.4
27.5°	3484.6	3488.9	3494.9	3505.2	3516.4
30°	3371.1	3371.1	3382.3	3392.6	3402.9
32.5°	3256.8	3252.5	3262.8	3275.7	3300.6
35°	3130.5	3127.0	3138.2	3150.2	3163.1
37.5°	2998.9	2996.4	3009.3	3022.2	3034.2
40°	2865.7	2862.3	2875.2	2888.1	2901.0
42.5°	2729.1	2727.3	2739.4	2752.3	2766.0
45°	2587.2	2586.4	2598.4	2611.3	2625.0
47.5°	2442.8	2441.1	2453.1	2466.9	2478.9
50°	2295.0	2293.3	2305.3	2319.0	2331.9
52.5°	2142.8	2142.8	2154.0	2166.1	2185.8
55°	1989.8	1987.3	1999.3	2013.1	2032.0
57.5°	1835.1	1831.7	1842.9	1856.6	1873.8
60°	1677.0	1673.5	1683.8	1697.6	1721.7
62.5°	1517.1	1511.9	1522.3	1535.1	1549.8
65°	1355.5	1350.3	1359.8	1371.8	1385.6
67.5°	1193.0	1187.0	1196.5	1206.8	1219.7
70°	1029.7	1023.7	1030.6	1040.9	1052.9
72.5°	867.3	861.3	867.3	871.6	886.2
75°	708.3	702.2	705.7	709.1	722.0
77.5°	553.5	547.5	554.4	556.1	563.9
80°	408.3	402.3	406.6	407.4	413.4
82.5°	275.9	270.8	276.8	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)