

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: P834477

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834477
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-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

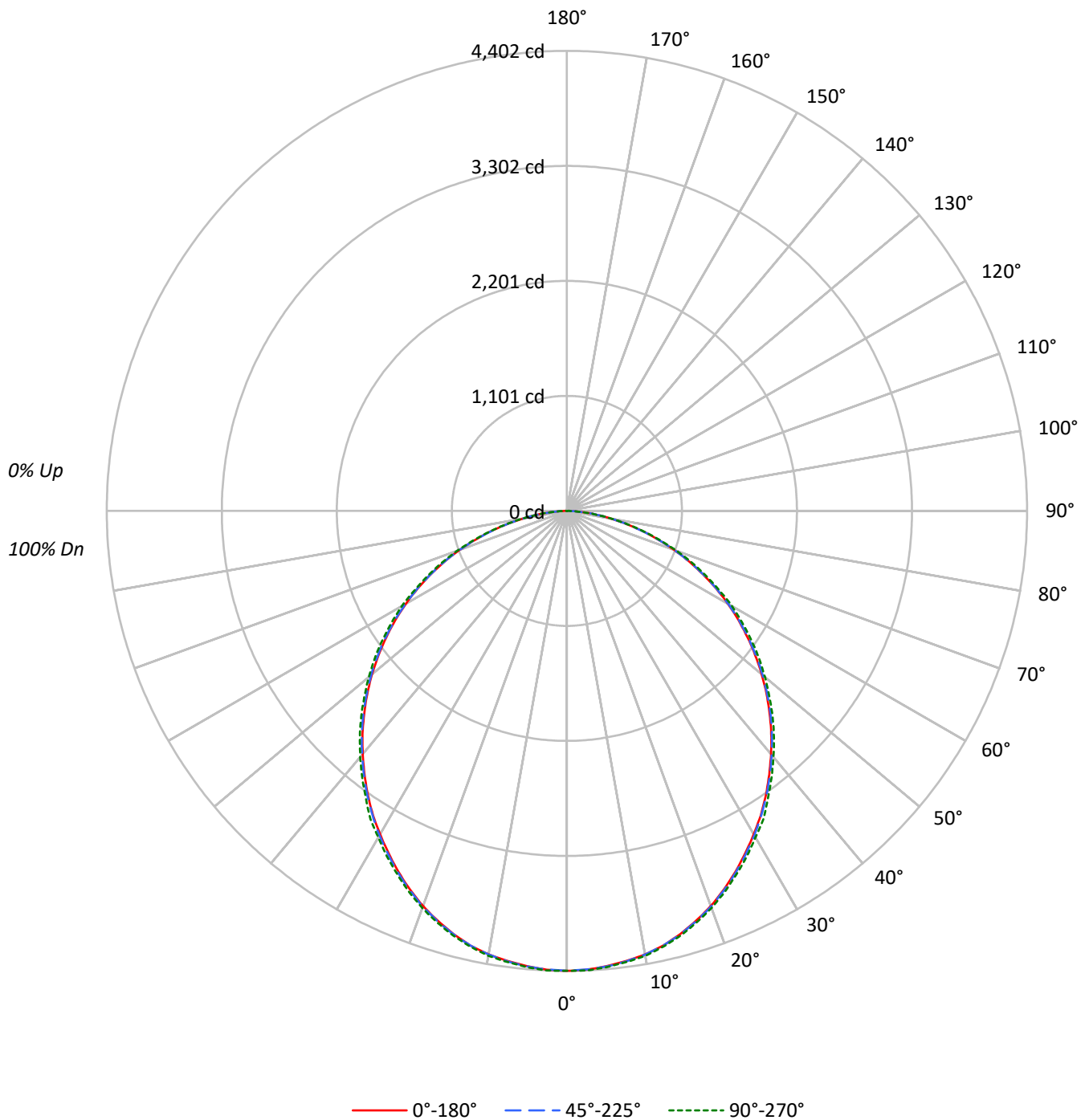
Lumens per Lamp: N/A
Luminaire Lumens: 11891.5 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11842	11842	11842
5°	11812	11821	11836
10°	11774	11776	11811
15°	11676	11684	11717
20°	11525	11538	11580
25°	11316	11343	11395
30°	11104	11141	11209
35°	10901	10928	11015
40°	10671	10706	10802
45°	10437	10482	10590
50°	10184	10230	10348
55°	9896	9943	10105
60°	9567	9606	9822
65°	9149	9178	9352
70°	8588	8596	8781
75°	7806	7777	7958
80°	6707	6679	6792
85°	5206	5119	5147

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.9	3.5
10°-20°	1182.9	9.9
20°-30°	1761.0	14.8
30°-40°	2082.6	17.5
40°-50°	2126.0	17.9
50°-60°	1897.4	16.0
60°-70°	1429.1	12.0
70°-80°	797.0	6.7
80°-90°	199.7	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°	3359.8	28.3
0°-40°	5442.4	45.8
0°-60°	9465.8	79.6
0°-90°	11891.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11891.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4401	4401	4401	4401	4401	
5°	4373	4381	4376	4377	4382	415
15°	4191	4196	4194	4198	4206	1181
25°	3811	3816	3820	3830	3838	1756
35°	3318	3315	3327	3339	3353	2075
45°	2742	2742	2754	2768	2783	2116
55°	2109	2107	2119	2134	2154	1885
65°	1437	1431	1441	1454	1469	1421
75°	751	744	748	752	765	796
85°	169	164	166	164	167	202
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4400.8	4400.8	4400.8	4400.8	4400.8
2.5°	4393.5	4400.8	4391.7	4393.5	4401.7
5°	4372.6	4380.8	4376.2	4377.1	4381.7
7.5°	4343.4	4354.3	4348.0	4349.8	4354.3
10°	4308.8	4317.0	4309.7	4314.3	4322.5
12.5°	4259.6	4263.2	4259.6	4261.4	4270.5
15°	4191.2	4195.8	4194.0	4197.6	4205.8
17.5°	4111.1	4116.5	4115.6	4122.9	4129.3
20°	4024.5	4025.4	4029.1	4036.4	4043.6
22.5°	3922.5	3925.2	3928.8	3938.9	3946.1
25°	3811.3	3815.9	3820.4	3830.4	3837.7
27.5°	3693.8	3698.3	3704.7	3715.6	3727.5
30°	3573.5	3573.5	3585.3	3596.3	3607.2
32.5°	3452.3	3447.8	3458.7	3472.4	3498.8
35°	3318.4	3314.7	3326.6	3339.3	3353.0
37.5°	3179.0	3176.2	3189.9	3203.6	3216.3
40°	3037.7	3034.1	3047.8	3061.4	3075.1
42.5°	2892.9	2891.0	2903.8	2917.5	2932.1
45°	2742.5	2741.6	2754.4	2768.0	2782.6
47.5°	2589.5	2587.6	2600.4	2615.0	2627.7
50°	2432.7	2430.9	2443.7	2458.3	2471.9
52.5°	2271.5	2271.5	2283.3	2296.1	2317.0
55°	2109.3	2106.6	2119.3	2133.9	2153.9
57.5°	1945.3	1941.6	1953.5	1968.1	1986.3
60°	1777.6	1774.0	1784.9	1799.5	1825.0
62.5°	1608.2	1602.7	1613.6	1627.3	1642.8
65°	1436.9	1431.4	1441.4	1454.2	1468.8
67.5°	1264.7	1258.3	1268.3	1279.2	1292.9
70°	1091.5	1085.2	1092.5	1103.4	1116.1
72.5°	919.3	913.0	919.3	923.9	939.4
75°	750.8	744.4	748.0	751.7	765.4
77.5°	586.8	580.4	587.7	589.5	597.7
80°	432.8	426.4	431.0	431.9	438.3
82.5°	292.5	287.0	293.4	288.8	294.3
85°	168.6	164.0	165.8	164.0	166.7
87.5°	66.5	62.9	63.8	60.1	60.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)