

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: P835062

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835062
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-LD4-6HI-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

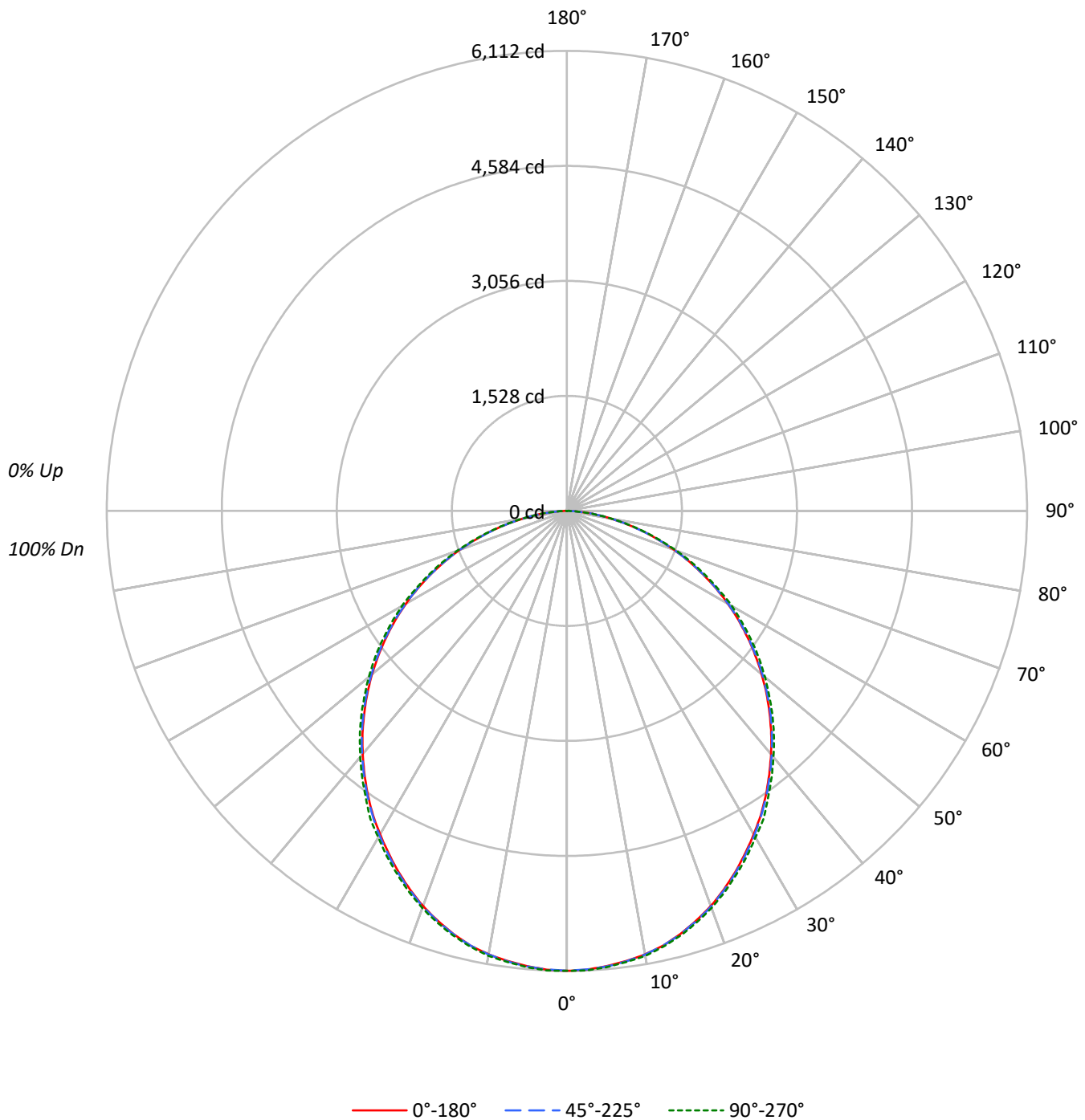
Lumens per Lamp: N/A
Luminaire Lumens: 16510.6 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8221	8221	8221
5°	8200	8207	8217
10°	8174	8175	8200
15°	8106	8111	8134
20°	8001	8010	8039
25°	7856	7875	7910
30°	7709	7734	7781
35°	7568	7586	7647
40°	7408	7432	7499
45°	7246	7277	7352
50°	7070	7102	7184
55°	6870	6902	7015
60°	6642	6669	6819
65°	6351	6372	6493
70°	5962	5967	6096
75°	5419	5399	5525
80°	4656	4637	4715
85°	3612	3554	3574

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.4	3.5
10°-20°	1642.4	9.9
20°-30°	2445.1	14.8
30°-40°	2891.5	17.5
40°-50°	2951.9	17.9
50°-60°	2634.4	16.0
60°-70°	1984.2	12.0
70°-80°	1106.5	6.7
80°-90°	277.2	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°	4664.9	28.3
0°-40°	7556.4	45.8
0°-60°	13142.7	79.6
0°-90°	16510.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16510.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6110	6110	6110	6110	6110	
5°	6071	6082	6076	6077	6084	577
15°	5819	5826	5823	5828	5840	1640
25°	5292	5298	5304	5318	5328	2438
35°	4607	4602	4619	4636	4655	2881
45°	3808	3807	3824	3843	3864	2937
55°	2929	2925	2942	2963	2991	2618
65°	1995	1987	2001	2019	2039	1973
75°	1042	1034	1039	1044	1063	1105
85°	234	228	230	228	232	281
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6110.3	6110.3	6110.3	6110.3	6110.3
2.5°	6100.1	6110.3	6097.6	6100.1	6111.5
5°	6071.0	6082.4	6076.1	6077.4	6083.7
7.5°	6030.6	6045.7	6036.9	6039.4	6045.7
10°	5982.5	5993.9	5983.8	5990.1	6001.5
12.5°	5914.2	5919.2	5914.2	5916.7	5929.4
15°	5819.3	5825.6	5823.1	5828.1	5839.5
17.5°	5708.0	5715.6	5714.3	5724.4	5733.3
20°	5587.8	5589.1	5594.1	5604.2	5614.4
22.5°	5446.1	5449.9	5455.0	5468.9	5479.0
25°	5291.8	5298.1	5304.4	5318.3	5328.4
27.5°	5128.6	5134.9	5143.7	5158.9	5175.4
30°	4961.6	4961.6	4978.0	4993.2	5008.4
32.5°	4793.3	4787.0	4802.2	4821.2	4857.8
35°	4607.4	4602.3	4618.7	4636.5	4655.4
37.5°	4413.8	4410.0	4429.0	4448.0	4465.7
40°	4217.7	4212.7	4231.6	4250.6	4269.6
42.5°	4016.6	4014.0	4031.8	4050.7	4071.0
45°	3807.8	3806.6	3824.3	3843.3	3863.5
47.5°	3595.3	3592.8	3610.5	3630.7	3648.4
50°	3377.7	3375.2	3392.9	3413.1	3432.1
52.5°	3153.8	3153.8	3170.2	3188.0	3217.1
55°	2928.6	2924.8	2942.5	2962.8	2990.6
57.5°	2700.9	2695.9	2712.3	2732.5	2757.8
60°	2468.1	2463.1	2478.3	2498.5	2533.9
62.5°	2232.8	2225.2	2240.4	2259.4	2280.9
65°	1995.0	1987.4	2001.3	2019.0	2039.3
67.5°	1755.9	1747.1	1761.0	1776.1	1795.1
70°	1515.5	1506.7	1516.8	1532.0	1549.7
72.5°	1276.4	1267.6	1276.4	1282.8	1304.3
75°	1042.4	1033.6	1038.6	1043.7	1062.7
77.5°	814.7	805.8	816.0	818.5	829.9
80°	600.9	592.0	598.4	599.6	608.5
82.5°	406.1	398.5	407.4	401.0	408.6
85°	234.0	227.7	230.2	227.7	231.5
87.5°	92.3	87.3	88.6	83.5	83.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)