

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: P834978

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834978
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-LD4-2HI-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

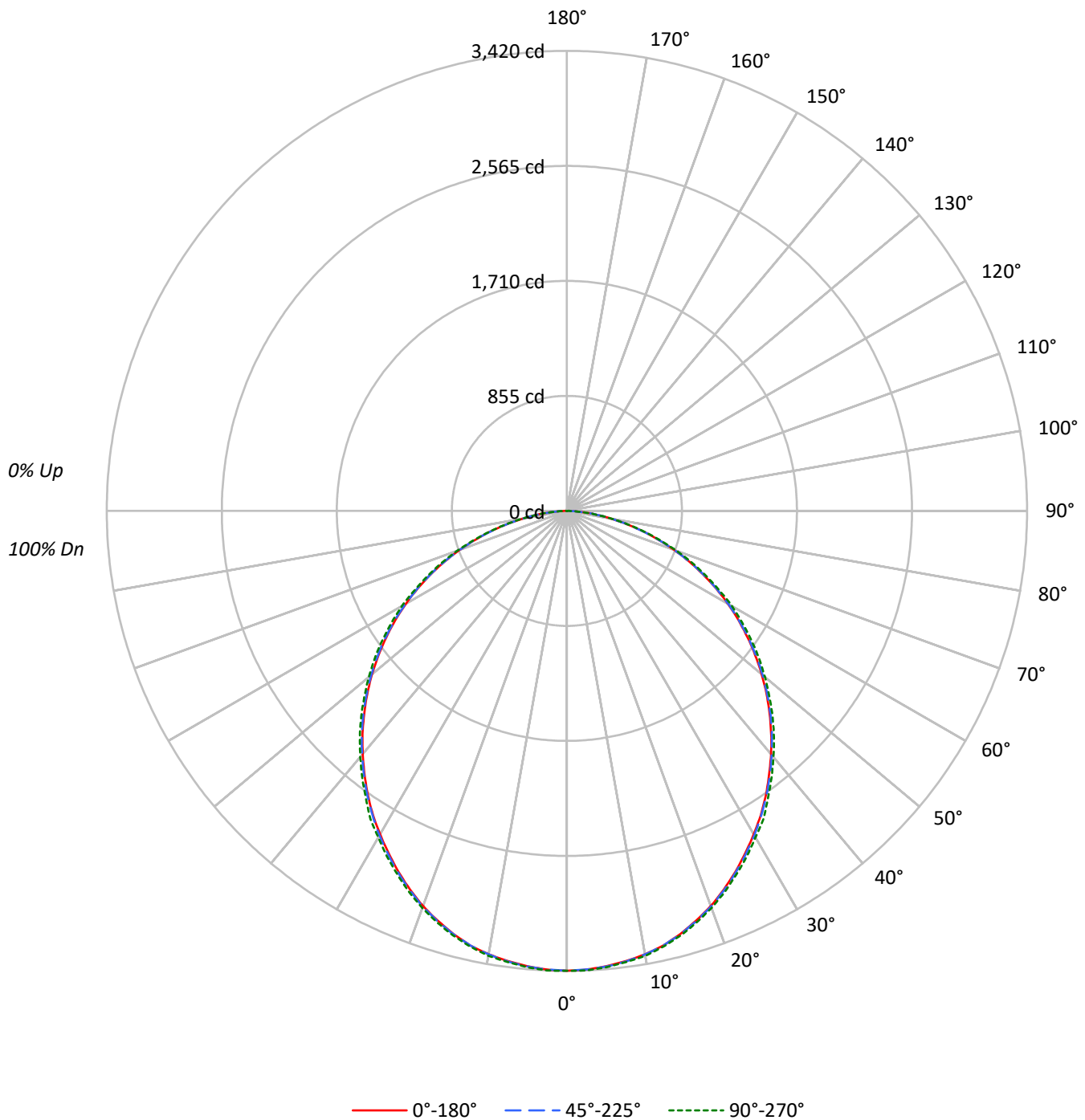
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9238.3 lumens
Efficiency: N/A
Efficacy: 105.0 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): 88
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°	4600	4600	4600
5°	4588	4592	4598
10°	4574	4574	4588
15°	4536	4539	4551
20°	4477	4482	4498
25°	4396	4406	4426
30°	4313	4328	4354
35°	4234	4245	4279
40°	4145	4159	4196
45°	4054	4072	4113
50°	3956	3974	4020
55°	3844	3862	3925
60°	3716	3732	3815
65°	3554	3565	3633
70°	3336	3339	3411
75°	3032	3021	3091
80°	2605	2594	2638
85°	2022	1988	1999

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	3.5
10°-20°	919.0	9.9
20°-30°	1368.1	14.8
30°-40°	1617.9	17.5
40°-50°	1651.7	17.9
50°-60°	1474.0	16.0
60°-70°	1110.2	12.0
70°-80°	619.2	6.7
80°-90°	155.1	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°	2610.2	28.3
0°-40°	4228.1	45.8
0°-60°	7353.9	79.6
0°-90°	9238.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9238.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3419	3419	3419	3419	3419	
5°	3397	3403	3400	3400	3404	323
15°	3256	3260	3258	3261	3268	918
25°	2961	2964	2968	2976	2982	1364
35°	2578	2575	2584	2594	2605	1612
45°	2131	2130	2140	2150	2162	1644
55°	1639	1637	1646	1658	1673	1465
65°	1116	1112	1120	1130	1141	1104
75°	583	578	581	584	595	618
85°	131	127	129	127	130	157
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3418.9	3418.9	3418.9	3418.9	3418.9
2.5°	3413.3	3418.9	3411.9	3413.3	3419.7
5°	3397.0	3403.4	3399.8	3400.5	3404.1
7.5°	3374.4	3382.8	3377.9	3379.3	3382.8
10°	3347.5	3353.8	3348.2	3351.7	3358.1
12.5°	3309.2	3312.1	3309.2	3310.6	3317.7
15°	3256.1	3259.7	3258.3	3261.1	3267.5
17.5°	3193.8	3198.1	3197.4	3203.0	3208.0
20°	3126.6	3127.3	3130.1	3135.8	3141.5
22.5°	3047.3	3049.4	3052.3	3060.1	3065.7
25°	2961.0	2964.5	2968.0	2975.8	2981.5
27.5°	2869.6	2873.2	2878.1	2886.6	2895.8
30°	2776.2	2776.2	2785.4	2793.9	2802.4
32.5°	2682.1	2678.5	2687.0	2697.6	2718.2
35°	2578.0	2575.2	2584.4	2594.3	2604.9
37.5°	2469.7	2467.6	2478.2	2488.8	2498.7
40°	2360.0	2357.2	2367.8	2378.4	2389.0
42.5°	2247.4	2246.0	2255.9	2266.6	2277.9
45°	2130.6	2129.9	2139.8	2150.5	2161.8
47.5°	2011.7	2010.3	2020.2	2031.5	2041.5
50°	1890.0	1888.6	1898.5	1909.8	1920.4
52.5°	1764.7	1764.7	1773.9	1783.8	1800.1
55°	1638.7	1636.6	1646.5	1657.8	1673.4
57.5°	1511.3	1508.4	1517.6	1529.0	1543.1
60°	1381.0	1378.2	1386.7	1398.0	1417.8
62.5°	1249.4	1245.1	1253.6	1264.2	1276.3
65°	1116.3	1112.0	1119.8	1129.7	1141.1
67.5°	982.5	977.5	985.3	993.8	1004.4
70°	848.0	843.1	848.7	857.2	867.1
72.5°	714.2	709.3	714.2	717.8	729.8
75°	583.3	578.3	581.1	584.0	594.6
77.5°	455.9	450.9	456.6	458.0	464.4
80°	336.2	331.3	334.8	335.5	340.5
82.5°	227.2	223.0	227.9	224.4	228.6
85°	131.0	127.4	128.8	127.4	129.5
87.5°	51.7	48.8	49.5	46.7	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)