

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: P834420

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834420
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-LD4-2HI-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

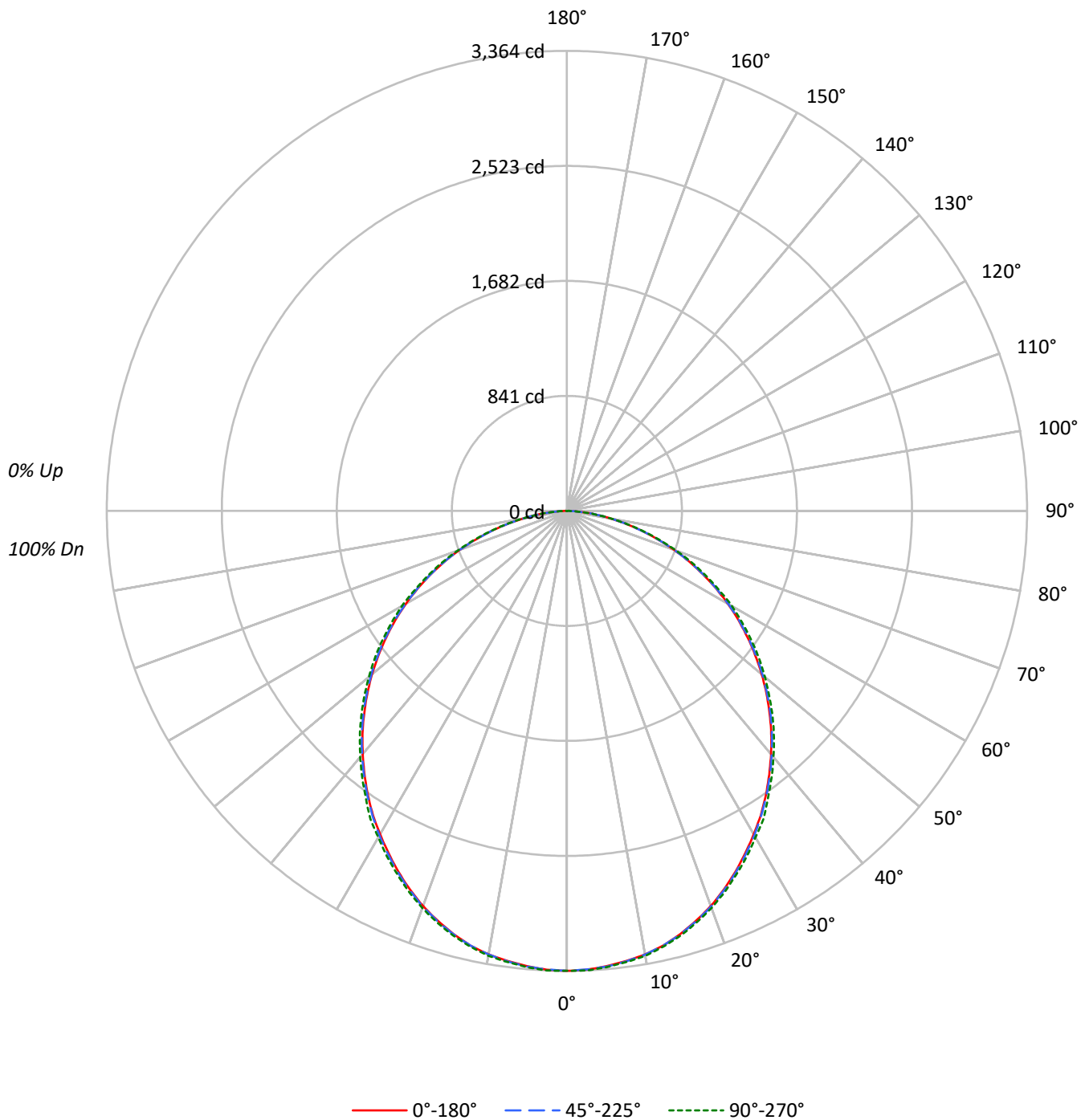
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9087.7 lumens
Efficiency: N/A
Efficacy: 103.3 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): 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

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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°	9050	9050	9050
5°	9027	9034	9045
10°	8998	9000	9026
15°	8923	8929	8954
20°	8808	8818	8849
25°	8648	8669	8708
30°	8486	8514	8566
35°	8331	8351	8418
40°	8155	8182	8255
45°	7976	8011	8093
50°	7783	7818	7909
55°	7563	7598	7723
60°	7311	7342	7506
65°	6992	7014	7147
70°	6563	6569	6711
75°	5966	5944	6081
80°	5125	5105	5190
85°	3977	3912	3934

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	3.5
10°-20°	904.0	9.9
20°-30°	1345.8	14.8
30°-40°	1591.6	17.5
40°-50°	1624.8	17.9
50°-60°	1450.0	16.0
60°-70°	1092.1	12.0
70°-80°	609.1	6.7
80°-90°	152.6	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°	2567.6	28.3
0°-40°	4159.2	45.8
0°-60°	7234.0	79.6
0°-90°	9087.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9087.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3363	3363	3363	3363	3363	
5°	3342	3348	3344	3345	3349	317
15°	3203	3206	3205	3208	3214	903
25°	2913	2916	2920	2927	2933	1342
35°	2536	2533	2542	2552	2562	1586
45°	2096	2095	2105	2115	2126	1617
55°	1612	1610	1620	1631	1646	1441
65°	1098	1094	1102	1111	1122	1086
75°	574	569	572	574	585	608
85°	129	125	127	125	127	155
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3363.2	3363.2	3363.2	3363.2	3363.2
2.5°	3357.6	3363.2	3356.2	3357.6	3363.9
5°	3341.6	3347.9	3344.4	3345.1	3348.6
7.5°	3319.3	3327.7	3322.8	3324.2	3327.7
10°	3292.9	3299.1	3293.6	3297.0	3303.3
12.5°	3255.3	3258.1	3255.3	3256.7	3263.6
15°	3203.0	3206.5	3205.1	3207.9	3214.2
17.5°	3141.8	3145.9	3145.3	3150.8	3155.7
20°	3075.6	3076.3	3079.1	3084.7	3090.2
22.5°	2997.6	2999.7	3002.5	3010.2	3015.7
25°	2912.7	2916.2	2919.6	2927.3	2932.9
27.5°	2822.9	2826.3	2831.2	2839.6	2848.6
30°	2730.9	2730.9	2740.0	2748.4	2756.7
32.5°	2638.3	2634.9	2643.2	2653.7	2673.8
35°	2536.0	2533.2	2542.2	2552.0	2562.4
37.5°	2429.4	2427.4	2437.8	2448.2	2458.0
40°	2321.5	2318.7	2329.2	2339.6	2350.1
42.5°	2210.8	2209.4	2219.2	2229.6	2240.7
45°	2095.9	2095.2	2105.0	2115.4	2126.5
47.5°	1978.9	1977.5	1987.3	1998.4	2008.2
50°	1859.2	1857.8	1867.5	1878.7	1889.1
52.5°	1735.9	1735.9	1745.0	1754.7	1770.7
55°	1612.0	1609.9	1619.6	1630.8	1646.1
57.5°	1486.6	1483.8	1492.9	1504.0	1518.0
60°	1358.5	1355.7	1364.1	1375.2	1394.7
62.5°	1229.0	1224.8	1233.2	1243.6	1255.5
65°	1098.1	1093.9	1101.6	1111.3	1122.5
67.5°	966.5	961.6	969.3	977.6	988.1
70°	834.2	829.3	834.9	843.2	853.0
72.5°	702.6	697.7	702.6	706.1	717.9
75°	573.8	568.9	571.7	574.5	584.9
77.5°	448.4	443.6	449.1	450.5	456.8
80°	330.7	325.9	329.4	330.1	334.9
82.5°	223.5	219.3	224.2	220.7	224.9
85°	128.8	125.3	126.7	125.3	127.4
87.5°	50.8	48.0	48.7	46.0	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)