

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835032

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2HI-50-120-EDD**

Issue Date: 5/16/2024

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**Test Information**

Test Method: LM-79-08
Report Number: P835032
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-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

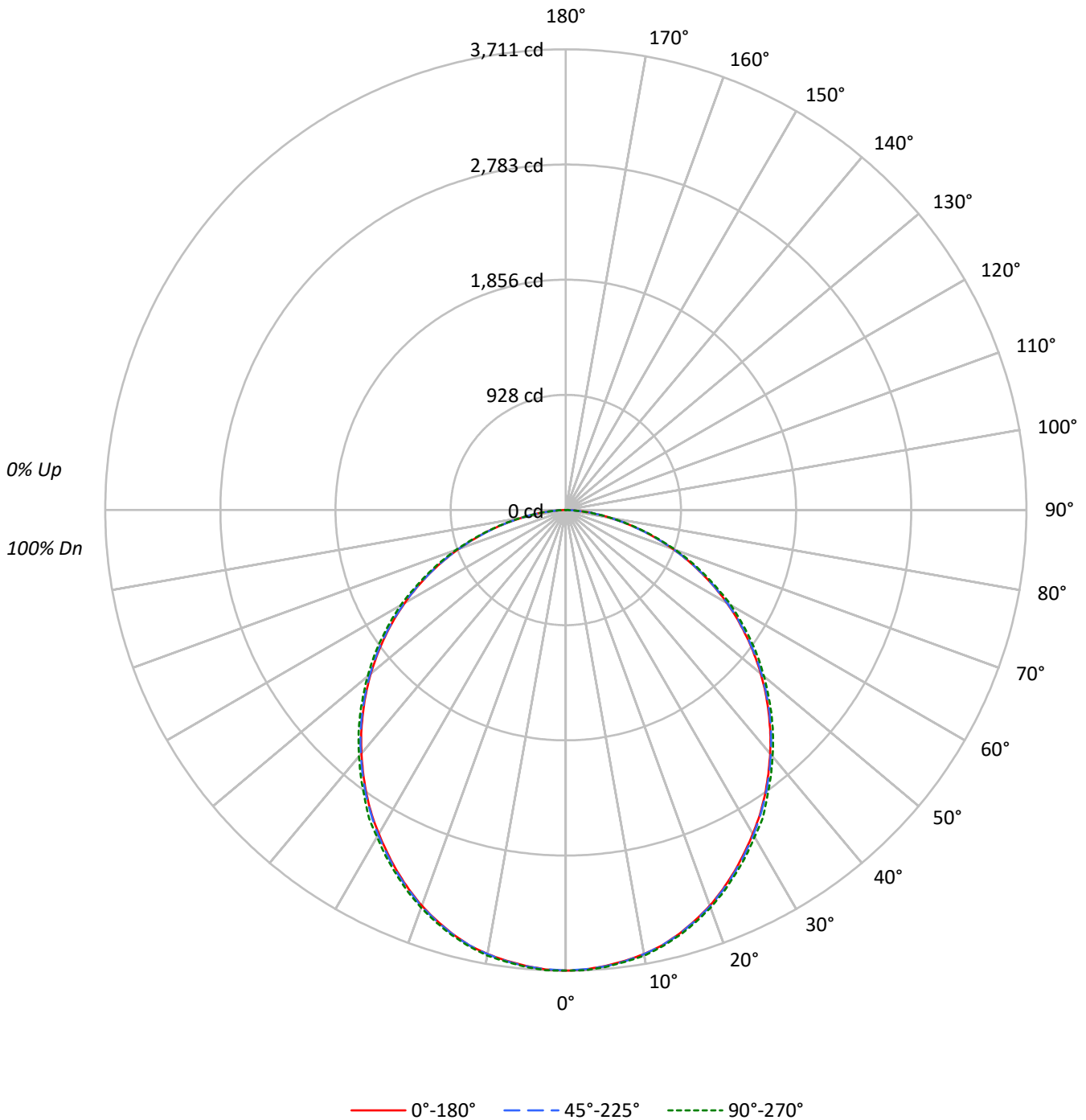
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10024.6 lumens
Efficiency: N/A
Efficacy: 113.9 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): 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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4992	4992	4992
5°	4979	4983	4989
10°	4963	4964	4978
15°	4922	4925	4939
20°	4858	4863	4881
25°	4770	4781	4803
30°	4680	4696	4724
35°	4595	4606	4643
40°	4498	4513	4553
45°	4399	4418	4464
50°	4293	4312	4362
55°	4171	4191	4259
60°	4033	4049	4140
65°	3856	3869	3942
70°	3620	3623	3701
75°	3290	3278	3354
80°	2827	2815	2863
85°	2194	2158	2171

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Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	3.5
10°-20°	997.2	9.9
20°-30°	1484.6	14.8
30°-40°	1755.6	17.5
40°-50°	1792.3	17.9
50°-60°	1599.5	16.0
60°-70°	1204.7	12.0
70°-80°	671.9	6.7
80°-90°	168.3	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°	2832.4	28.3
0°-40°	4588.0	45.8
0°-60°	7979.7	79.6
0°-90°	10024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10024.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3710	3710	3710	3710	3710	
5°	3686	3693	3689	3690	3694	350
15°	3533	3537	3536	3539	3546	996
25°	3213	3217	3221	3229	3235	1480
35°	2797	2794	2804	2815	2827	1749
45°	2312	2311	2322	2334	2346	1783
55°	1778	1776	1787	1799	1816	1589
65°	1211	1207	1215	1226	1238	1198
75°	633	628	631	634	645	671
85°	142	138	140	138	141	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3709.9	3709.9	3709.9	3709.9	3709.9
2.5°	3703.8	3709.9	3702.2	3703.8	3710.7
5°	3686.1	3693.0	3689.2	3689.9	3693.8
7.5°	3661.5	3670.7	3665.4	3666.9	3670.7
10°	3632.3	3639.3	3633.1	3636.9	3643.9
12.5°	3590.9	3593.9	3590.9	3592.4	3600.1
15°	3533.3	3537.1	3535.6	3538.6	3545.5
17.5°	3465.7	3470.3	3469.5	3475.6	3481.0
20°	3392.7	3393.5	3396.5	3402.7	3408.8
22.5°	3306.7	3309.0	3312.0	3320.5	3326.6
25°	3213.0	3216.8	3220.6	3229.1	3235.2
27.5°	3113.9	3117.7	3123.1	3132.3	3142.3
30°	3012.5	3012.5	3022.5	3031.7	3040.9
32.5°	2910.3	2906.5	2915.7	2927.2	2949.5
35°	2797.4	2794.3	2804.3	2815.1	2826.6
37.5°	2679.9	2677.6	2689.1	2700.6	2711.4
40°	2560.8	2557.8	2569.3	2580.8	2592.3
42.5°	2438.7	2437.2	2447.9	2459.5	2471.7
45°	2312.0	2311.2	2322.0	2333.5	2345.8
47.5°	2182.9	2181.4	2192.2	2204.4	2215.2
50°	2050.8	2049.3	2060.0	2072.3	2083.9
52.5°	1914.9	1914.9	1924.9	1935.6	1953.3
55°	1778.1	1775.8	1786.6	1798.9	1815.8
57.5°	1639.9	1636.8	1646.8	1659.1	1674.5
60°	1498.6	1495.5	1504.7	1517.0	1538.5
62.5°	1355.7	1351.1	1360.3	1371.8	1384.9
65°	1211.3	1206.7	1215.1	1225.9	1238.2
67.5°	1066.1	1060.7	1069.2	1078.4	1089.9
70°	920.2	914.8	921.0	930.2	940.9
72.5°	775.0	769.6	775.0	778.9	791.9
75°	632.9	627.5	630.6	633.7	645.2
77.5°	494.7	489.3	495.4	497.0	503.9
80°	364.8	359.5	363.3	364.1	369.5
82.5°	246.6	242.0	247.3	243.5	248.1
85°	142.1	138.3	139.8	138.3	140.6
87.5°	56.1	53.0	53.8	50.7	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)