

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: P834405

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834405
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-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

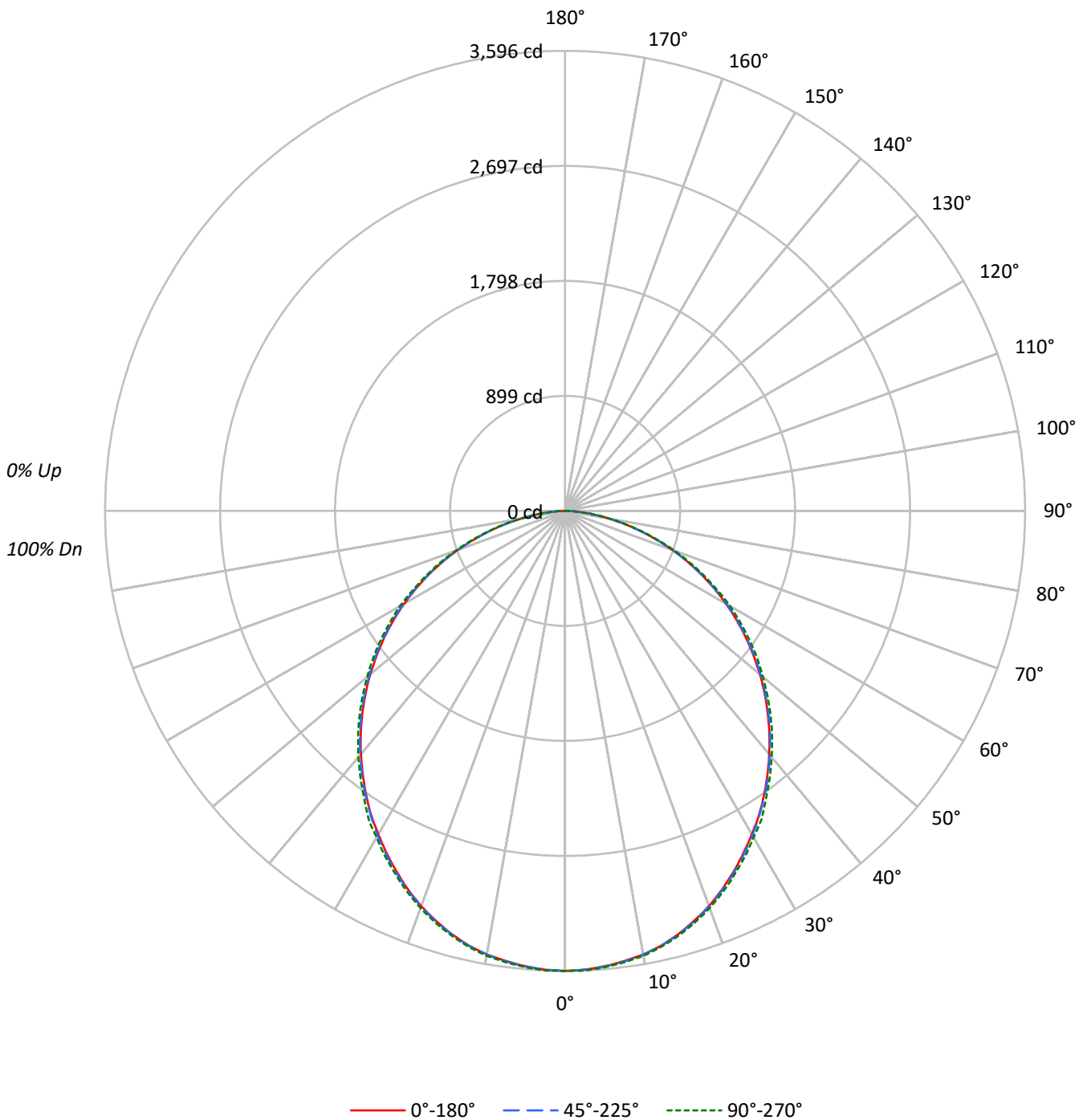
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9716.2 lumens
Efficiency: N/A
Efficacy: 73.6 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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9676	9676	9676
5°	9651	9659	9671
10°	9620	9622	9651
15°	9541	9547	9574
20°	9417	9427	9462
25°	9246	9269	9310
30°	9073	9103	9158
35°	8907	8929	9000
40°	8719	8748	8826
45°	8528	8565	8652
50°	8321	8359	8455
55°	8085	8124	8257
60°	7817	7849	8026
65°	7475	7499	7642
70°	7017	7023	7176
75°	6378	6355	6502
80°	5480	5456	5549
85°	4252	4184	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	3.5
10°-20°	966.5	9.9
20°-30°	1438.9	14.8
30°-40°	1701.6	17.5
40°-50°	1737.1	17.9
50°-60°	1550.3	16.0
60°-70°	1167.7	12.0
70°-80°	651.2	6.7
80°-90°	163.1	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°	2745.2	28.3
0°-40°	4446.8	45.8
0°-60°	7734.2	79.6
0°-90°	9716.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9716.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3596	3596	3596	3596	3596	
5°	3573	3579	3576	3576	3580	339
15°	3425	3428	3427	3430	3436	965
25°	3114	3118	3122	3130	3136	1435
35°	2711	2708	2718	2728	2740	1696
45°	2241	2240	2250	2262	2274	1729
55°	1723	1721	1732	1744	1760	1541
65°	1174	1170	1178	1188	1200	1161
75°	613	608	611	614	625	650
85°	138	134	136	134	136	165
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3595.8	3595.8	3595.8	3595.8	3595.8
2.5°	3589.8	3595.8	3588.3	3589.8	3596.5
5°	3572.7	3579.4	3575.7	3576.4	3580.1
7.5°	3548.9	3557.8	3552.6	3554.1	3557.8
10°	3520.6	3527.3	3521.3	3525.1	3531.8
12.5°	3480.4	3483.4	3480.4	3481.9	3489.3
15°	3424.6	3428.3	3426.8	3429.8	3436.5
17.5°	3359.0	3363.5	3362.8	3368.7	3373.9
20°	3288.3	3289.1	3292.0	3298.0	3304.0
22.5°	3204.9	3207.2	3210.1	3218.3	3224.3
25°	3114.1	3117.8	3121.6	3129.7	3135.7
27.5°	3018.1	3021.8	3027.0	3035.9	3045.6
30°	2919.8	2919.8	2929.5	2938.4	2947.4
32.5°	2820.8	2817.1	2826.0	2837.2	2858.8
35°	2711.4	2708.4	2718.1	2728.5	2739.6
37.5°	2597.5	2595.2	2606.4	2617.6	2628.0
40°	2482.1	2479.1	2490.2	2501.4	2512.6
42.5°	2363.7	2362.2	2372.6	2383.8	2395.7
45°	2240.9	2240.1	2250.5	2261.7	2273.6
47.5°	2115.8	2114.3	2124.7	2136.6	2147.0
50°	1987.7	1986.2	1996.7	2008.6	2019.7
52.5°	1856.0	1856.0	1865.6	1876.1	1893.2
55°	1723.4	1721.2	1731.6	1743.5	1759.9
57.5°	1589.4	1586.5	1596.1	1608.1	1622.9
60°	1452.5	1449.5	1458.4	1470.3	1491.2
62.5°	1314.0	1309.5	1318.5	1329.6	1342.3
65°	1174.0	1169.6	1177.7	1188.2	1200.1
67.5°	1033.3	1028.1	1036.3	1045.2	1056.4
70°	891.9	886.7	892.6	901.6	912.0
72.5°	751.2	746.0	751.2	754.9	767.5
75°	613.4	608.2	611.2	614.2	625.4
77.5°	479.4	474.2	480.2	481.7	488.4
80°	353.6	348.4	352.1	352.9	358.1
82.5°	239.0	234.5	239.7	236.0	240.5
85°	137.7	134.0	135.5	134.0	136.2
87.5°	54.3	51.4	52.1	49.1	49.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)