

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: P488853

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-50-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By E9911574 / USPTCWHP6081592

**Test Information**

Test Method: LM-79-08  
Report Number: P488853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-12-4-INS-P12125-LD4-3STD-50-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9647.1 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

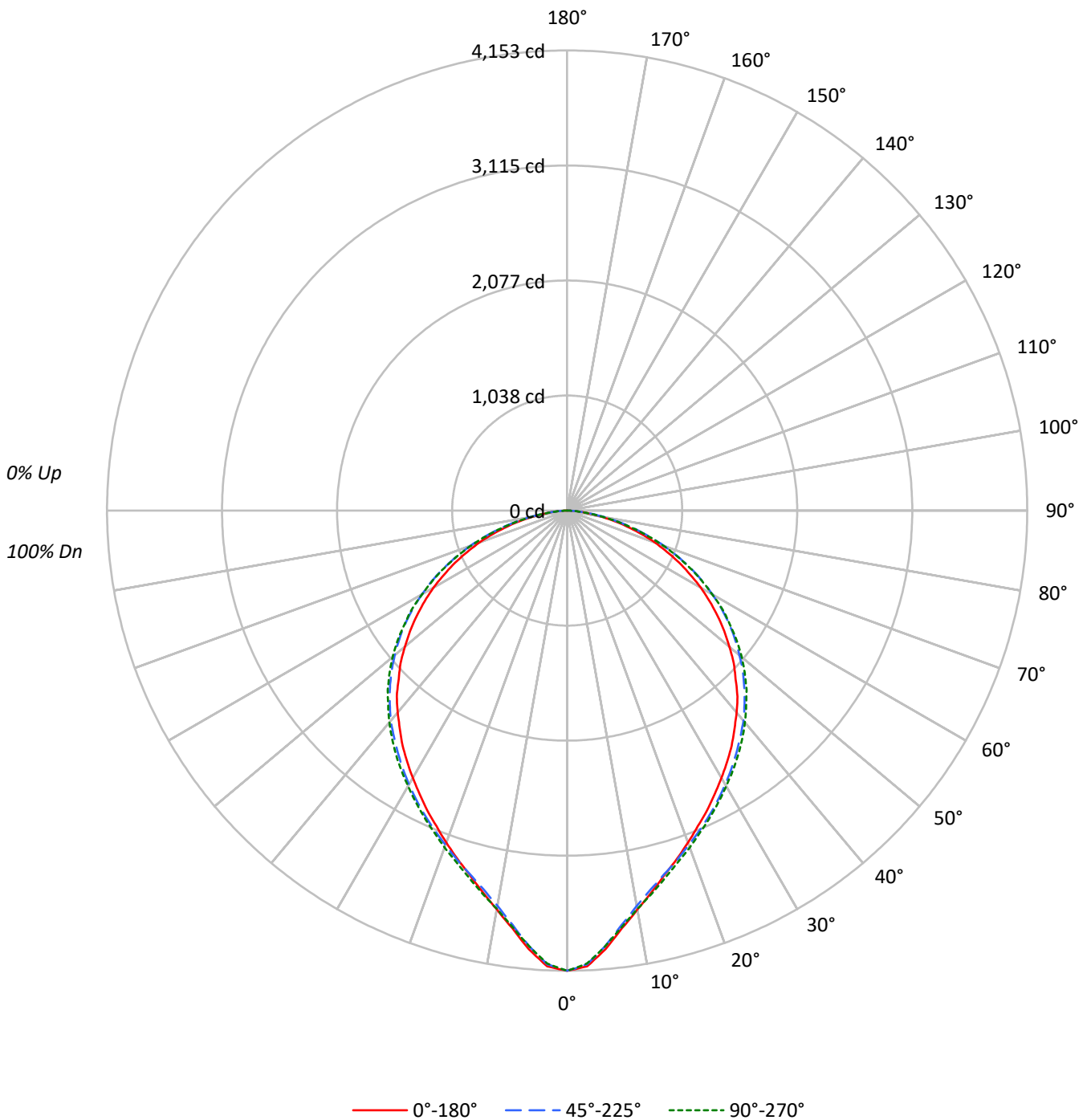
Input Watts (W): 99.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	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	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	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	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	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	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	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°	11176	11176	11176
5°	10731	10655	10655
10°	9988	9897	9973
15°	9477	9460	9552
20°	9130	9195	9266
25°	8868	9013	9065
30°	8655	8868	8923
35°	8506	8755	8843
40°	8356	8695	8768
45°	8183	8610	8712
50°	8003	8503	8616
55°	7780	8379	8413
60°	7501	8149	8132
65°	7110	7837	7784
70°	6638	7308	7218
75°	5859	6474	6409
80°	4761	5275	5016
85°	3301	3362	3236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.0	3.8
10°-20°	961.3	10.0
20°-30°	1397.9	14.5
30°-40°	1663.4	17.2
40°-50°	1727.2	17.9
50°-60°	1564.8	16.2
60°-70°	1180.8	12.2
70°-80°	643.4	6.7
80°-90°	141.4	1.5
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°	2726.1	28.3
0°-40°	4389.6	45.5
0°-60°	7681.6	79.6
0°-90°	9647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9647.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4153	4153	4153	4153	4153	
5°	3973	3963	3945	3943	3945	369
15°	3402	3394	3396	3418	3429	960
25°	2987	3012	3036	3060	3053	1376
35°	2589	2620	2665	2706	2692	1619
45°	2150	2189	2262	2287	2289	1662
55°	1658	1698	1786	1798	1793	1481
65°	1117	1149	1231	1229	1222	1104
75°	564	586	623	627	616	600
85°	107	108	109	108	105	135
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4153.2	4153.2	4153.2	4153.2	4153.2
2.5°	4116.9	4112.7	4099.2	4094.0	4093.0
5°	3972.7	3963.3	3944.6	3942.6	3944.6
7.5°	3800.4	3790.0	3771.3	3778.6	3787.9
10°	3655.1	3629.1	3621.8	3632.2	3649.9
12.5°	3525.3	3504.6	3498.3	3525.3	3537.8
15°	3401.8	3393.5	3395.6	3418.5	3428.8
17.5°	3295.0	3289.8	3303.3	3320.9	3326.1
20°	3188.1	3198.5	3210.9	3229.6	3235.8
22.5°	3083.3	3102.9	3123.8	3148.6	3140.4
25°	2986.8	3011.6	3035.6	3060.4	3053.2
27.5°	2884.0	2913.0	2946.3	2973.3	2962.9
30°	2785.4	2821.7	2853.9	2887.1	2871.6
32.5°	2687.9	2722.1	2760.5	2801.0	2783.3
35°	2589.3	2620.4	2665.1	2705.5	2692.0
37.5°	2480.3	2518.7	2569.5	2604.8	2595.5
40°	2378.6	2413.9	2475.1	2498.0	2495.9
42.5°	2275.8	2305.0	2369.3	2395.2	2391.1
45°	2150.3	2188.7	2262.4	2287.3	2289.3
47.5°	2039.3	2071.5	2150.3	2170.0	2174.1
50°	1911.6	1952.1	2031.0	2054.8	2058.0
52.5°	1786.0	1829.6	1910.6	1927.1	1930.3
55°	1658.3	1697.8	1786.0	1798.5	1793.3
57.5°	1524.5	1572.2	1653.2	1659.4	1664.6
60°	1393.7	1435.3	1514.1	1522.4	1511.0
62.5°	1251.6	1294.1	1375.1	1377.1	1367.8
65°	1116.6	1148.8	1230.8	1228.7	1222.5
67.5°	975.5	1014.9	1075.2	1077.2	1072.1
70°	843.7	870.7	928.8	929.9	917.4
72.5°	701.6	730.6	777.3	771.1	768.0
75°	563.5	586.4	622.7	626.9	616.4
77.5°	436.9	453.5	480.5	477.4	465.9
80°	307.2	320.7	340.4	336.3	323.7
82.5°	196.1	204.5	216.9	211.7	206.5
85°	106.9	107.9	108.9	107.9	104.8
87.5°	39.4	40.5	40.5	39.4	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)