

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: P488489

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-35-120-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.



**Test Information**

Test Method: LM-79-08  
Report Number: P488489  
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-12-2-INS-P12125-LD4-1STD-35-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

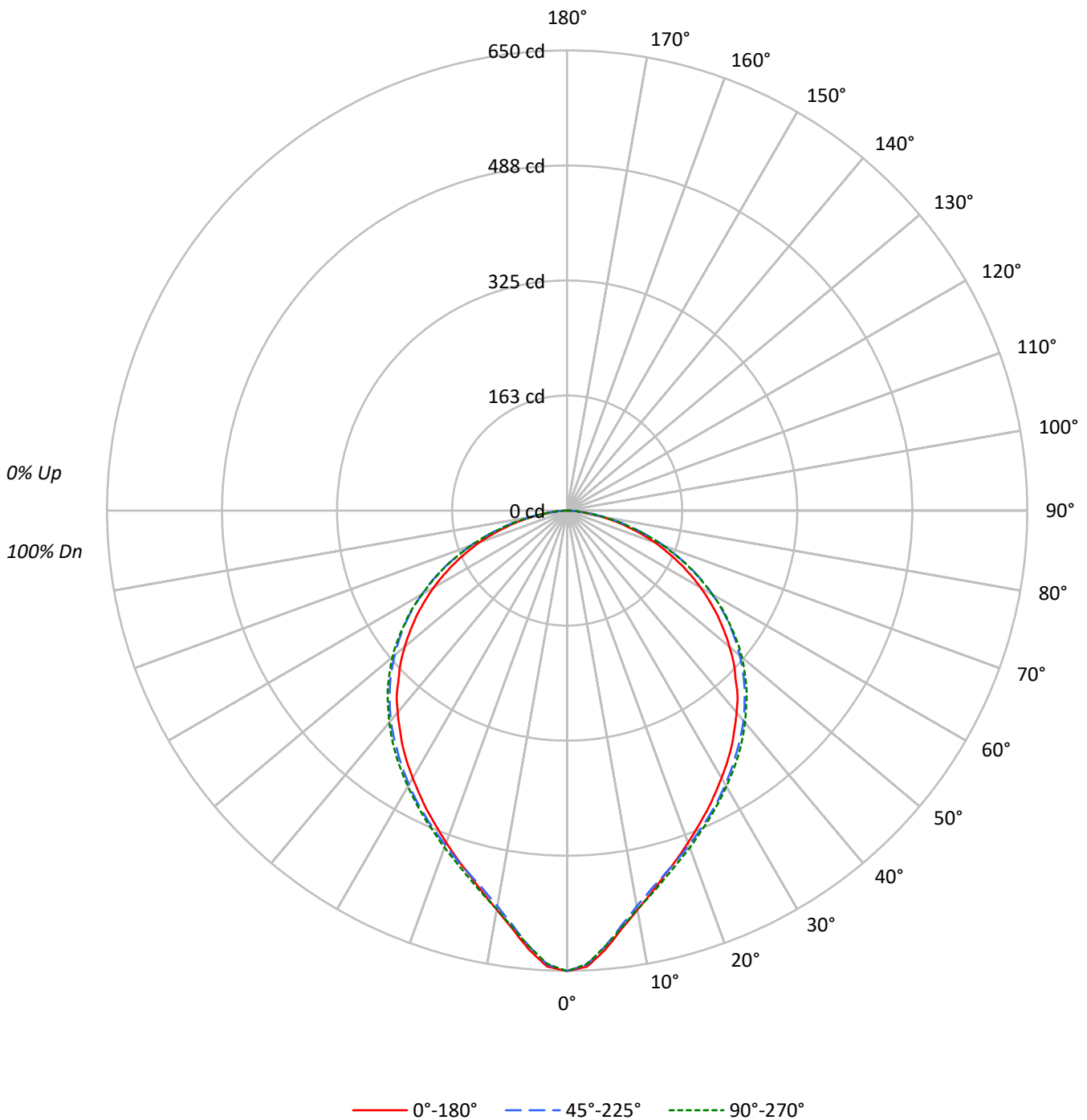
Lumens per Lamp: N/A  
Luminaire Lumens: 1510.7 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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	0
RW	70	50	30	10	70	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
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°	3500	3500	3500
5°	3361	3337	3337
10°	3128	3100	3124
15°	2968	2963	2992
20°	2859	2880	2902
25°	2777	2823	2839
30°	2711	2777	2795
35°	2664	2742	2770
40°	2617	2723	2746
45°	2563	2697	2729
50°	2507	2663	2699
55°	2437	2624	2635
60°	2349	2552	2547
65°	2227	2454	2437
70°	2079	2288	2261
75°	1834	2027	2007
80°	1491	1652	1571
85°	1031	1056	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	3.8
10°-20°	150.5	10.0
20°-30°	218.9	14.5
30°-40°	260.5	17.2
40°-50°	270.5	17.9
50°-60°	245.0	16.2
60°-70°	184.9	12.2
70°-80°	100.7	6.7
80°-90°	22.1	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°	426.9	28.3
0°-40°	687.4	45.5
0°-60°	1202.9	79.6
0°-90°	1510.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1510.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	622	621	618	617	618	58
15°	533	531	532	535	537	150
25°	468	472	475	479	478	216
35°	406	410	417	424	422	254
45°	337	343	354	358	358	260
55°	260	266	280	282	281	232
65°	175	180	193	192	191	173
75°	88	92	98	98	96	94
85°	17	17	17	17	16	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	650.4	650.4	650.4	650.4	650.4
2.5°	644.7	644.0	641.9	641.1	640.9
5°	622.1	620.6	617.7	617.4	617.7
7.5°	595.1	593.5	590.6	591.7	593.2
10°	572.4	568.3	567.2	568.8	571.6
12.5°	552.1	548.8	547.8	552.1	554.0
15°	532.7	531.4	531.7	535.3	536.9
17.5°	516.0	515.2	517.3	520.0	520.9
20°	499.2	500.9	502.8	505.7	506.7
22.5°	482.8	485.9	489.2	493.1	491.8
25°	467.7	471.6	475.4	479.3	478.1
27.5°	451.6	456.2	461.4	465.6	464.0
30°	436.2	441.9	446.9	452.1	449.7
32.5°	420.9	426.3	432.3	438.6	435.9
35°	405.5	410.3	417.3	423.7	421.6
37.5°	388.4	394.4	402.4	407.9	406.5
40°	372.5	378.0	387.6	391.2	390.8
42.5°	356.4	360.9	371.0	375.1	374.4
45°	336.7	342.7	354.3	358.2	358.5
47.5°	319.3	324.4	336.7	339.8	340.5
50°	299.4	305.7	318.0	321.8	322.3
52.5°	279.7	286.5	299.2	301.8	302.3
55°	259.7	265.9	279.7	281.6	280.8
57.5°	238.7	246.2	258.9	259.9	260.7
60°	218.2	224.8	237.1	238.4	236.6
62.5°	196.0	202.7	215.3	215.7	214.2
65°	174.9	179.9	192.7	192.4	191.4
67.5°	152.8	158.9	168.4	168.7	167.9
70°	132.1	136.3	145.4	145.6	143.7
72.5°	109.9	114.4	121.7	120.7	120.3
75°	88.2	91.8	97.5	98.2	96.5
77.5°	68.4	71.0	75.2	74.8	73.0
80°	48.1	50.2	53.3	52.7	50.7
82.5°	30.7	32.0	34.0	33.2	32.3
85°	16.7	16.9	17.1	16.9	16.4
87.5°	6.2	6.3	6.3	6.2	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)