

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: P488374

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-20-120-EDD-90**

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: P488374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-2STD-20-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

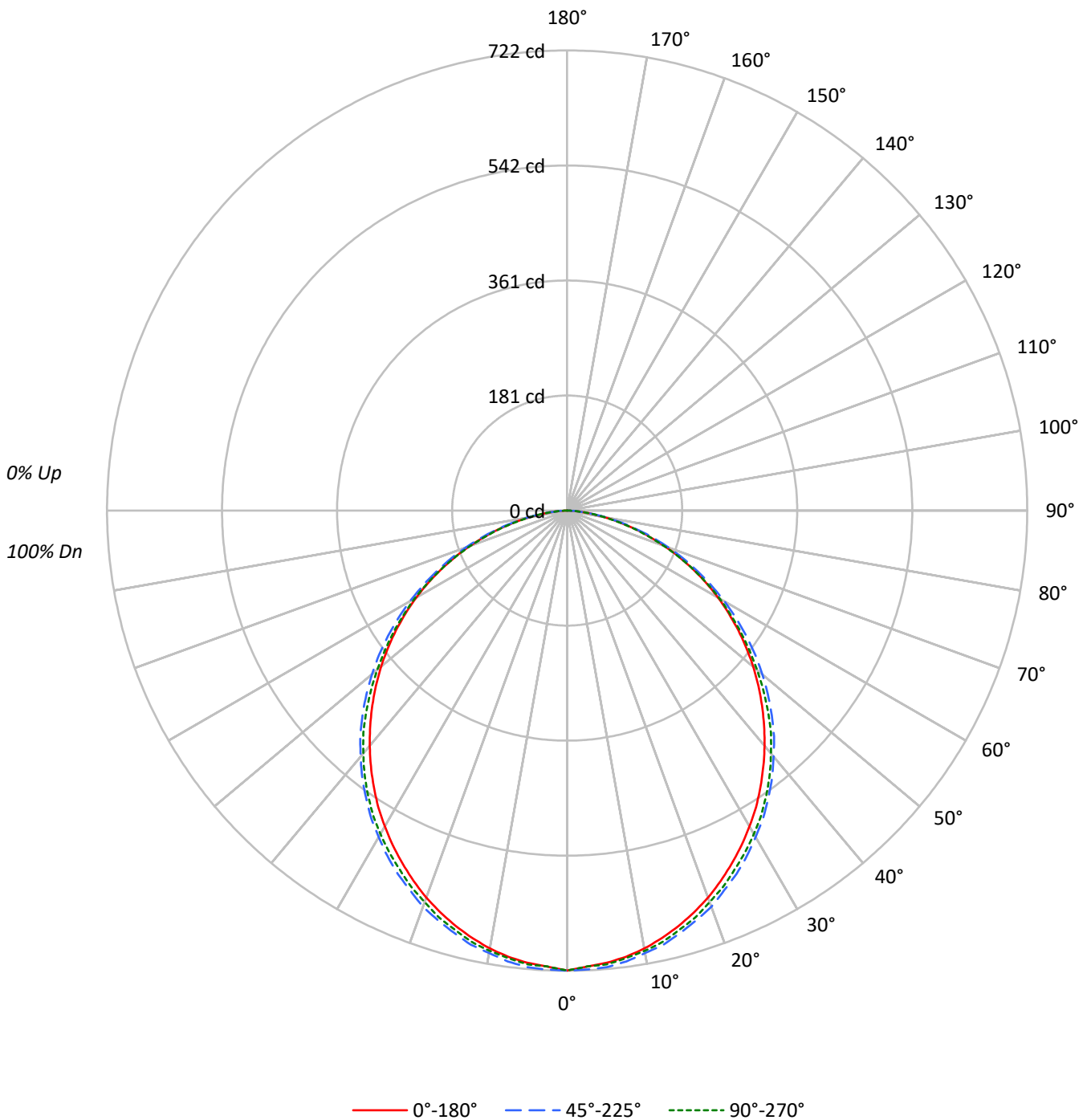
Lumens per Lamp: N/A  
Luminaire Lumens: 1897.4 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3884	3884	3884
5°	3848	3884	3861
10°	3813	3852	3833
15°	3760	3821	3794
20°	3701	3789	3743
25°	3629	3734	3691
30°	3555	3676	3642
35°	3476	3614	3579
40°	3385	3541	3496
45°	3290	3456	3391
50°	3192	3346	3258
55°	3076	3219	3121
60°	2945	3067	2972
65°	2775	2882	2777
70°	2554	2656	2526
75°	2248	2350	2215
80°	1829	1906	1807
85°	1272	1359	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	3.6
10°-20°	192.6	10.2
20°-30°	287.3	15.1
30°-40°	340.4	17.9
40°-50°	344.5	18.2
50°-60°	300.8	15.9
60°-70°	219.8	11.6
70°-80°	117.0	6.2
80°-90°	27.0	1.4
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°	547.9	28.9
0°-40°	888.3	46.8
0°-60°	1533.6	80.8
0°-90°	1897.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	712	714	719	721	715	68
15°	675	679	686	690	681	190
25°	611	619	629	631	622	282
35°	529	537	550	554	545	331
45°	432	440	454	454	446	333
55°	328	334	343	338	333	293
65°	218	222	226	222	218	216
75°	108	111	113	109	106	115
85°	21	21	22	22	21	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	721.7	721.7	721.7	721.7	721.7
2.5°	716.1	718.4	720.8	721.9	716.0
5°	712.3	713.7	719.0	720.7	714.6
7.5°	706.1	708.2	713.4	714.1	708.2
10°	697.7	701.3	704.8	708.5	701.4
12.5°	687.0	691.9	697.7	698.4	693.0
15°	674.9	679.4	685.8	689.9	680.9
17.5°	661.3	665.7	674.0	674.7	669.3
20°	646.2	651.6	661.5	663.3	653.6
22.5°	629.1	636.4	644.6	646.3	639.1
25°	611.1	618.6	628.8	631.2	621.6
27.5°	592.3	599.5	611.0	612.7	604.6
30°	572.1	578.9	591.5	594.3	586.1
32.5°	551.7	558.5	572.4	574.8	566.8
35°	529.0	537.3	550.0	553.8	544.8
37.5°	505.8	513.9	528.3	531.8	522.1
40°	481.8	489.8	504.0	506.9	497.6
42.5°	457.3	465.3	480.5	480.9	473.3
45°	432.3	440.0	454.1	454.5	445.5
47.5°	406.9	414.6	427.2	425.8	417.4
50°	381.2	388.5	399.6	396.7	389.1
52.5°	354.5	361.7	372.1	367.5	360.3
55°	327.8	334.4	343.1	338.1	332.6
57.5°	300.8	307.5	314.2	309.1	304.3
60°	273.6	279.4	284.9	279.8	276.1
62.5°	245.9	250.9	255.7	250.8	247.3
65°	217.9	222.3	226.3	221.7	218.1
67.5°	190.1	193.8	197.5	192.8	189.0
70°	162.3	165.5	168.8	164.0	160.5
72.5°	134.8	137.7	140.6	135.9	132.9
75°	108.1	110.6	113.0	108.9	106.5
77.5°	82.6	84.7	86.4	83.8	81.4
80°	59.0	60.5	61.5	60.5	58.3
82.5°	37.9	39.0	39.6	39.5	38.0
85°	20.6	21.0	22.0	22.2	21.4
87.5°	8.0	8.5	8.7	9.4	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)