

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: P488519

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-20-120-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: P488519  
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-LD4-2STD-20-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

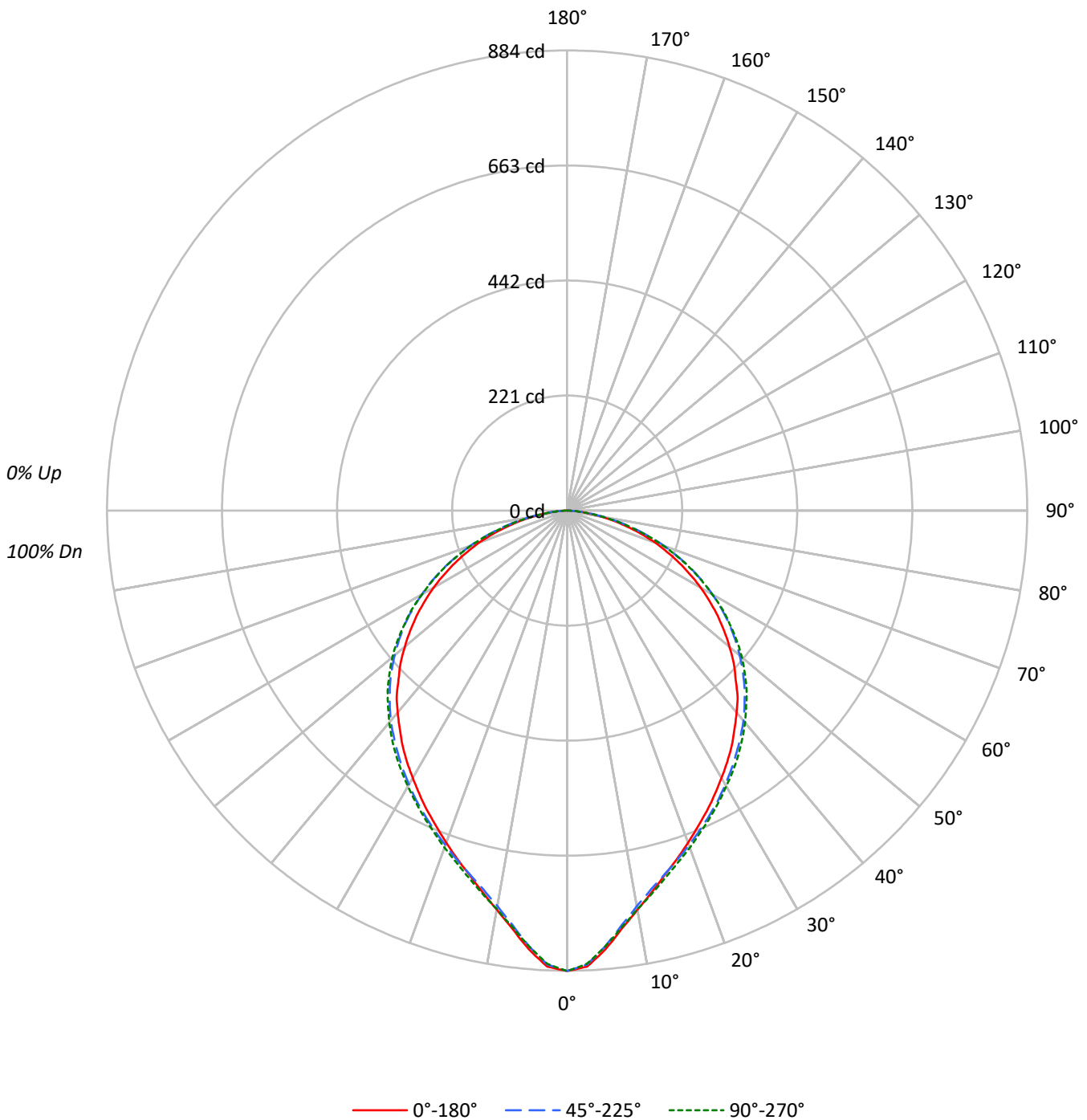
Lumens per Lamp: N/A  
Luminaire Lumens: 2054.5 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	4760	4760	4760
5°	4571	4539	4539
10°	4254	4215	4248
15°	4037	4030	4069
20°	3889	3916	3947
25°	3777	3839	3861
30°	3686	3777	3800
35°	3623	3729	3767
40°	3559	3703	3734
45°	3485	3667	3711
50°	3409	3621	3670
55°	3314	3569	3583
60°	3195	3471	3464
65°	3028	3338	3315
70°	2828	3113	3075
75°	2495	2757	2730
80°	2027	2247	2135
85°	1408	1433	1377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	3.8
10°-20°	204.7	10.0
20°-30°	297.7	14.5
30°-40°	354.3	17.2
40°-50°	367.8	17.9
50°-60°	333.2	16.2
60°-70°	251.5	12.2
70°-80°	137.0	6.7
80°-90°	30.1	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°	580.6	28.3
0°-40°	934.8	45.5
0°-60°	1635.9	79.6
0°-90°	2054.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2054.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	846	844	840	840	840	79
15°	724	723	723	728	730	204
25°	636	641	646	652	650	293
35°	551	558	568	576	573	345
45°	458	466	482	487	488	354
55°	353	362	380	383	382	315
65°	238	245	262	262	260	235
75°	120	125	133	134	131	128
85°	23	23	23	23	22	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	884.5	884.5	884.5	884.5	884.5
2.5°	876.8	875.9	873.0	871.9	871.7
5°	846.0	844.0	840.1	839.6	840.1
7.5°	809.3	807.1	803.2	804.7	806.7
10°	778.4	772.9	771.3	773.5	777.3
12.5°	750.8	746.4	745.0	750.8	753.4
15°	724.5	722.7	723.2	728.0	730.2
17.5°	701.7	700.6	703.5	707.2	708.4
20°	679.0	681.2	683.8	687.8	689.1
22.5°	656.6	660.8	665.3	670.6	668.8
25°	636.1	641.4	646.5	651.8	650.2
27.5°	614.2	620.4	627.5	633.2	631.0
30°	593.2	600.9	607.8	614.8	611.5
32.5°	572.4	579.7	587.9	596.5	592.8
35°	551.4	558.1	567.6	576.2	573.3
37.5°	528.2	536.4	547.2	554.7	552.8
40°	506.6	514.1	527.1	532.0	531.5
42.5°	484.7	490.9	504.6	510.1	509.2
45°	457.9	466.1	481.8	487.1	487.6
47.5°	434.3	441.1	457.9	462.1	463.0
50°	407.1	415.7	432.5	437.6	438.3
52.5°	380.4	389.6	406.9	410.4	411.1
55°	353.2	361.6	380.4	383.0	381.9
57.5°	324.7	334.8	352.1	353.4	354.5
60°	296.8	305.7	322.5	324.2	321.8
62.5°	266.5	275.6	292.8	293.3	291.3
65°	237.8	244.7	262.1	261.7	260.3
67.5°	207.7	216.1	229.0	229.4	228.3
70°	179.7	185.4	197.8	198.0	195.4
72.5°	149.4	155.6	165.5	164.2	163.6
75°	120.0	124.9	132.6	133.5	131.3
77.5°	93.1	96.6	102.3	101.7	99.2
80°	65.4	68.3	72.5	71.6	68.9
82.5°	41.8	43.5	46.2	45.1	44.0
85°	22.8	23.0	23.2	23.0	22.3
87.5°	8.4	8.6	8.6	8.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)