

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: P488524

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-35-120-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: P488524  
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-35-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

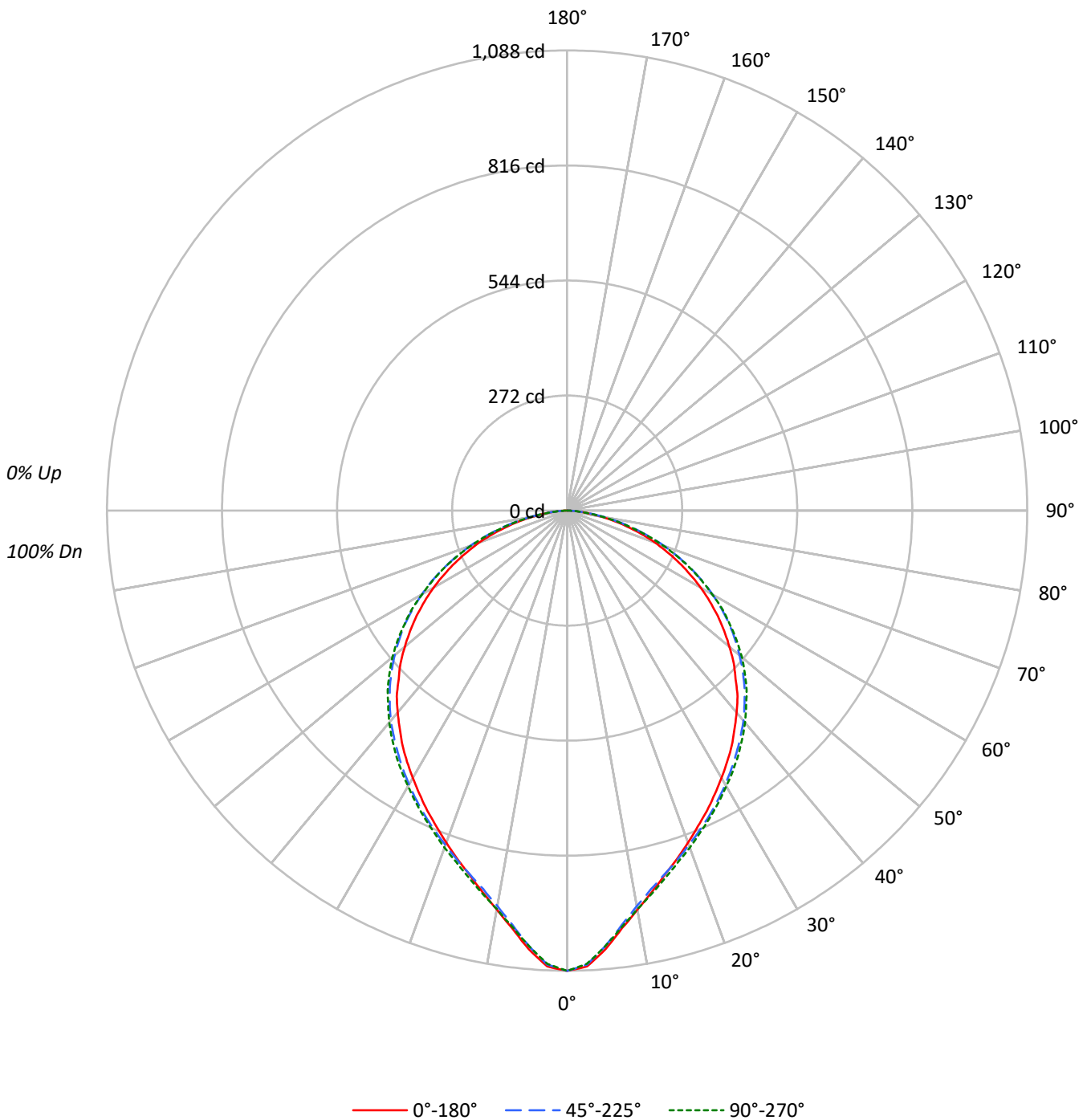
Lumens per Lamp: N/A  
Luminaire Lumens: 2528.1 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (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	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°	5858	5858	5858
5°	5625	5585	5585
10°	5234	5187	5227
15°	4967	4958	5006
20°	4785	4819	4857
25°	4648	4724	4751
30°	4536	4648	4676
35°	4458	4589	4635
40°	4379	4557	4595
45°	4289	4513	4566
50°	4195	4456	4515
55°	4078	4391	4410
60°	3931	4271	4263
65°	3726	4107	4080
70°	3479	3830	3783
75°	3071	3394	3358
80°	2495	2765	2628
85°	1729	1760	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	3.8
10°-20°	251.9	10.0
20°-30°	366.3	14.5
30°-40°	435.9	17.2
40°-50°	452.6	17.9
50°-60°	410.1	16.2
60°-70°	309.4	12.2
70°-80°	168.6	6.7
80°-90°	37.0	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°	714.4	28.3
0°-40°	1150.3	45.5
0°-60°	2013.0	79.6
0°-90°	2528.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1041	1039	1034	1033	1034	97
15°	892	889	890	896	898	252
25°	783	789	796	802	800	361
35°	678	687	698	709	706	424
45°	564	574	593	599	600	436
55°	435	445	468	471	470	388
65°	293	301	322	322	320	289
75°	148	154	163	164	162	157
85°	28	28	28	28	28	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1078.9	1077.8	1074.2	1072.9	1072.6
5°	1041.1	1038.6	1033.7	1033.2	1033.7
7.5°	995.9	993.2	988.3	990.2	992.7
10°	957.8	951.0	949.1	951.9	956.5
12.5°	923.8	918.4	916.8	923.8	927.1
15°	891.5	889.3	889.9	895.8	898.5
17.5°	863.5	862.1	865.7	870.3	871.6
20°	835.5	838.2	841.4	846.3	848.0
22.5°	808.0	813.2	818.6	825.1	823.0
25°	782.7	789.2	795.5	802.0	800.1
27.5°	755.8	763.4	772.1	779.2	776.4
30°	729.9	739.5	747.9	756.6	752.5
32.5°	704.4	713.4	723.4	734.0	729.4
35°	678.5	686.7	698.4	709.0	705.5
37.5°	650.0	660.0	673.4	682.6	680.2
40°	623.3	632.6	648.6	654.6	654.1
42.5°	596.4	604.0	620.9	627.7	626.6
45°	563.5	573.6	592.9	599.4	599.9
47.5°	534.4	542.8	563.5	568.7	569.7
50°	501.0	511.6	532.2	538.5	539.3
52.5°	468.0	479.5	500.7	505.0	505.9
55°	434.6	444.9	468.0	471.3	470.0
57.5°	399.5	412.0	433.2	434.9	436.2
60°	365.2	376.1	396.8	399.0	396.0
62.5°	328.0	339.1	360.4	360.9	358.4
65°	292.6	301.1	322.5	322.0	320.4
67.5°	255.6	266.0	281.8	282.3	280.9
70°	221.1	228.2	243.4	243.7	240.4
72.5°	183.9	191.5	203.7	202.1	201.3
75°	147.7	153.7	163.2	164.3	161.5
77.5°	114.5	118.8	125.9	125.1	122.1
80°	80.5	84.0	89.2	88.1	84.8
82.5°	51.4	53.6	56.8	55.5	54.1
85°	28.0	28.3	28.5	28.3	27.5
87.5°	10.3	10.6	10.6	10.3	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)