

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: P489299

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-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: P489299  
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-24-2-INS-P12125-LD4-3LO-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

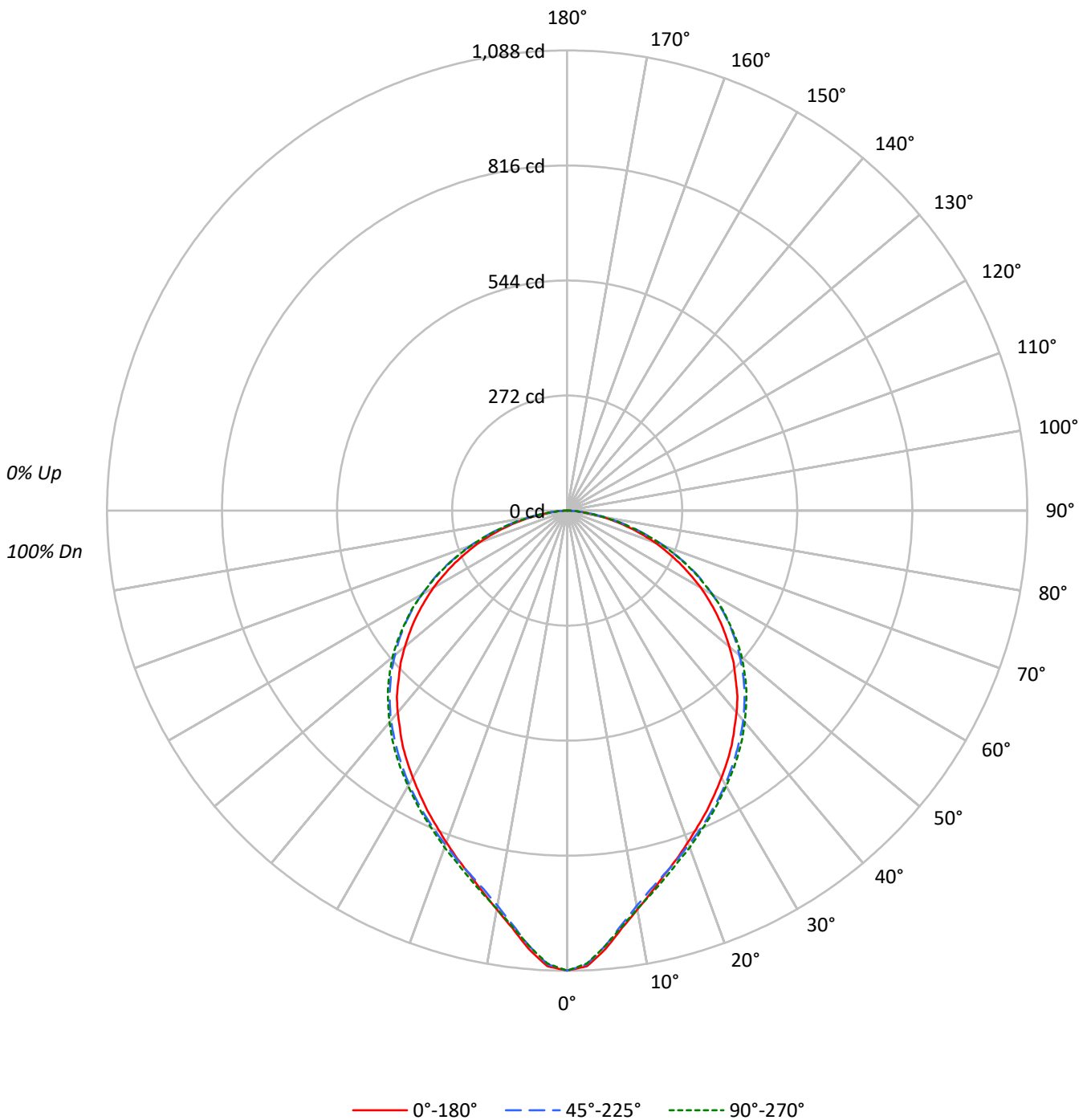
Lumens per Lamp: N/A  
Luminaire Lumens: 2526.2 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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°	2927	2927	2927
5°	2810	2790	2790
10°	2615	2591	2612
15°	2482	2477	2501
20°	2391	2408	2426
25°	2322	2360	2374
30°	2266	2322	2336
35°	2227	2293	2316
40°	2188	2277	2296
45°	2143	2254	2281
50°	2096	2226	2256
55°	2038	2194	2203
60°	1964	2134	2130
65°	1862	2052	2038
70°	1738	1913	1890
75°	1535	1696	1678
80°	1246	1381	1314
85°	865	880	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.8
10°-20°	251.7	10.0
20°-30°	366.0	14.5
30°-40°	435.6	17.2
40°-50°	452.3	17.9
50°-60°	409.8	16.2
60°-70°	309.2	12.2
70°-80°	168.5	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°	713.9	28.3
0°-40°	1149.5	45.5
0°-60°	2011.5	79.6
0°-90°	2526.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1040	1038	1033	1032	1033	97
15°	891	889	889	895	898	251
25°	782	789	795	801	800	360
35°	678	686	698	708	705	424
45°	563	573	592	599	600	435
55°	434	445	468	471	470	388
65°	292	301	322	322	320	289
75°	148	154	163	164	161	157
85°	28	28	28	28	27	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1087.6	1087.6	1087.6	1087.6	1087.6
2.5°	1078.1	1077.0	1073.4	1072.1	1071.8
5°	1040.3	1037.8	1032.9	1032.4	1032.9
7.5°	995.2	992.4	987.6	989.5	991.9
10°	957.1	950.3	948.4	951.1	955.8
12.5°	923.1	917.7	916.1	923.1	926.4
15°	890.8	888.6	889.2	895.2	897.9
17.5°	862.8	861.5	865.0	869.6	871.0
20°	834.8	837.6	840.8	845.7	847.3
22.5°	807.4	812.5	818.0	824.5	822.3
25°	782.1	788.6	794.9	801.4	799.5
27.5°	755.2	762.8	771.5	778.6	775.9
30°	729.4	738.9	747.3	756.0	751.9
32.5°	703.9	712.8	722.9	733.5	728.8
35°	678.0	686.2	697.9	708.5	704.9
37.5°	649.5	659.6	672.9	682.1	679.7
40°	622.9	632.1	648.1	654.1	653.6
42.5°	596.0	603.6	620.4	627.2	626.1
45°	563.1	573.1	592.4	599.0	599.5
47.5°	534.0	542.4	563.1	568.2	569.3
50°	500.6	511.2	531.8	538.1	538.9
52.5°	467.7	479.1	500.3	504.6	505.5
55°	434.3	444.6	467.7	471.0	469.6
57.5°	399.2	411.7	432.9	434.5	435.9
60°	365.0	375.8	396.5	398.7	395.7
62.5°	327.7	338.9	360.1	360.6	358.2
65°	292.4	300.8	322.3	321.8	320.1
67.5°	255.4	265.8	281.5	282.1	280.7
70°	220.9	228.0	243.2	243.5	240.2
72.5°	183.7	191.3	203.5	201.9	201.1
75°	147.6	153.5	163.1	164.1	161.4
77.5°	114.4	118.8	125.8	125.0	122.0
80°	80.4	84.0	89.1	88.1	84.8
82.5°	51.4	53.5	56.8	55.4	54.1
85°	28.0	28.3	28.5	28.3	27.4
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)