

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: P489221

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-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: P489221  
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-LD4-1HI-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

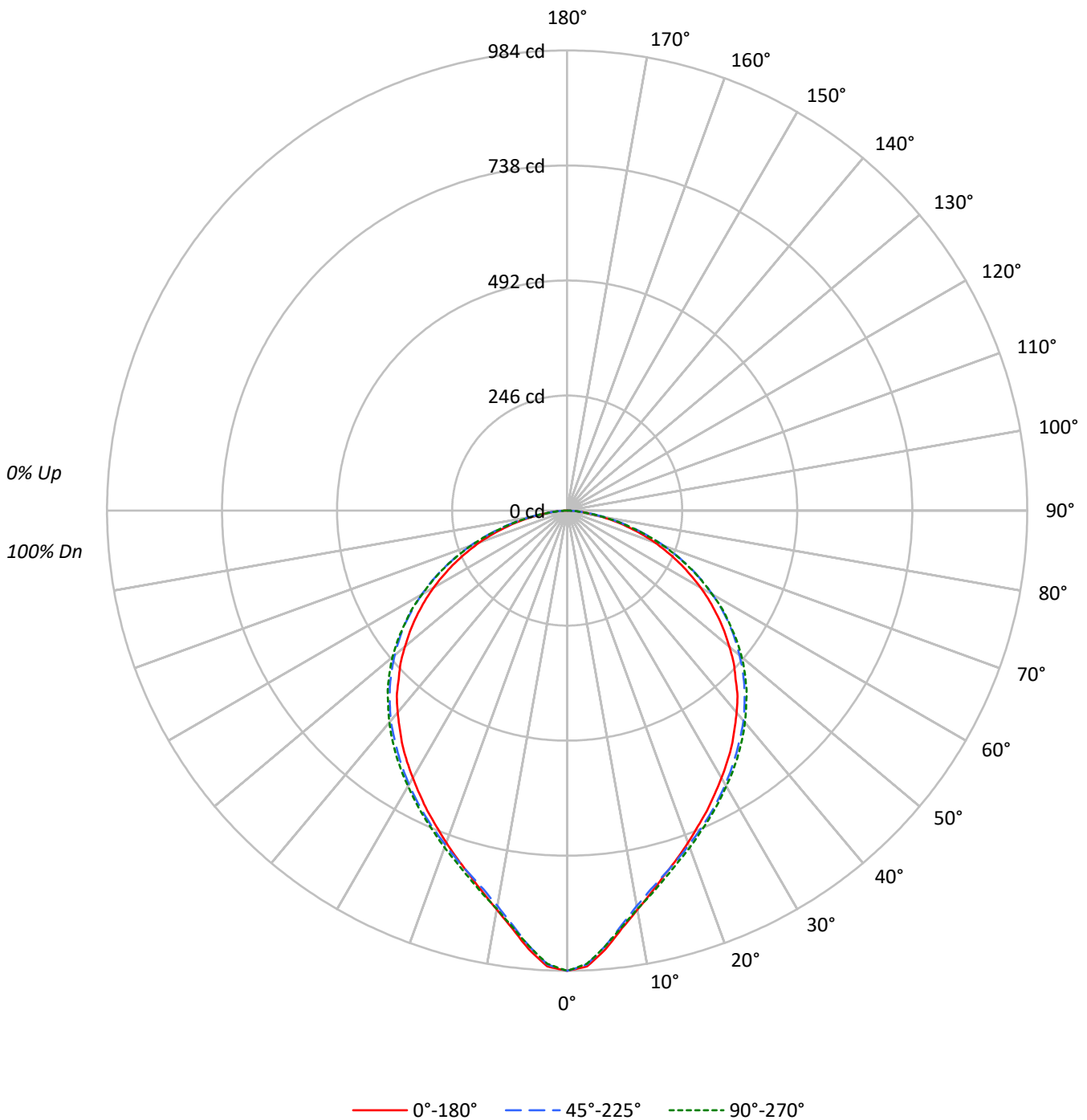
Lumens per Lamp: N/A  
Luminaire Lumens: 2286.1 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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°	2648	2648	2648
5°	2543	2525	2525
10°	2367	2345	2363
15°	2246	2242	2264
20°	2164	2179	2196
25°	2102	2136	2148
30°	2051	2101	2115
35°	2016	2075	2096
40°	1980	2060	2077
45°	1939	2040	2065
50°	1896	2015	2042
55°	1844	1985	1994
60°	1778	1931	1927
65°	1685	1857	1845
70°	1573	1732	1710
75°	1388	1535	1519
80°	1128	1251	1189
85°	781	797	766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	3.8
10°-20°	227.8	10.0
20°-30°	331.3	14.5
30°-40°	394.2	17.2
40°-50°	409.3	17.9
50°-60°	370.8	16.2
60°-70°	279.8	12.2
70°-80°	152.5	6.7
80°-90°	33.5	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°	646.0	28.3
0°-40°	1040.2	45.5
0°-60°	1820.3	79.6
0°-90°	2286.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2286.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	941	939	935	934	935	87
15°	806	804	805	810	812	228
25°	708	714	719	725	724	326
35°	614	621	632	641	638	384
45°	510	519	536	542	542	394
55°	393	402	423	426	425	351
65°	265	272	292	291	290	262
75°	134	139	148	148	146	142
85°	25	26	26	26	25	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	984.2	984.2	984.2	984.2	984.2
2.5°	975.6	974.6	971.4	970.2	969.9
5°	941.4	939.2	934.8	934.3	934.8
7.5°	900.6	898.1	893.7	895.4	897.6
10°	866.2	860.0	858.3	860.7	864.9
12.5°	835.4	830.5	829.0	835.4	838.4
15°	806.1	804.2	804.7	810.1	812.5
17.5°	780.8	779.6	782.8	787.0	788.2
20°	755.5	758.0	760.9	765.3	766.8
22.5°	730.7	735.3	740.2	746.1	744.2
25°	707.8	713.7	719.3	725.2	723.5
27.5°	683.4	690.3	698.2	704.6	702.1
30°	660.1	668.7	676.3	684.2	680.5
32.5°	637.0	645.1	654.2	663.8	659.6
35°	613.6	621.0	631.5	641.1	637.9
37.5°	587.8	596.9	608.9	617.3	615.1
40°	563.7	572.0	586.5	592.0	591.4
42.5°	539.3	546.2	561.5	567.6	566.6
45°	509.6	518.7	536.1	542.0	542.5
47.5°	483.2	490.9	509.6	514.2	515.2
50°	453.0	462.6	481.3	486.9	487.7
52.5°	423.2	433.6	452.7	456.7	457.4
55°	393.0	402.3	423.2	426.2	425.0
57.5°	361.3	372.6	391.8	393.2	394.5
60°	330.3	340.1	358.8	360.8	358.1
62.5°	296.6	306.7	325.9	326.3	324.1
65°	264.6	272.2	291.7	291.2	289.7
67.5°	231.2	240.5	254.8	255.3	254.1
70°	199.9	206.3	220.1	220.4	217.4
72.5°	166.3	173.1	184.2	182.7	182.0
75°	133.5	139.0	147.6	148.5	146.1
77.5°	103.5	107.5	113.9	113.1	110.4
80°	72.8	76.0	80.7	79.7	76.7
82.5°	46.5	48.5	51.4	50.2	48.9
85°	25.3	25.6	25.8	25.6	24.8
87.5°	9.3	9.6	9.6	9.3	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)