

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: P489225

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-50-120-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: P489225  
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-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

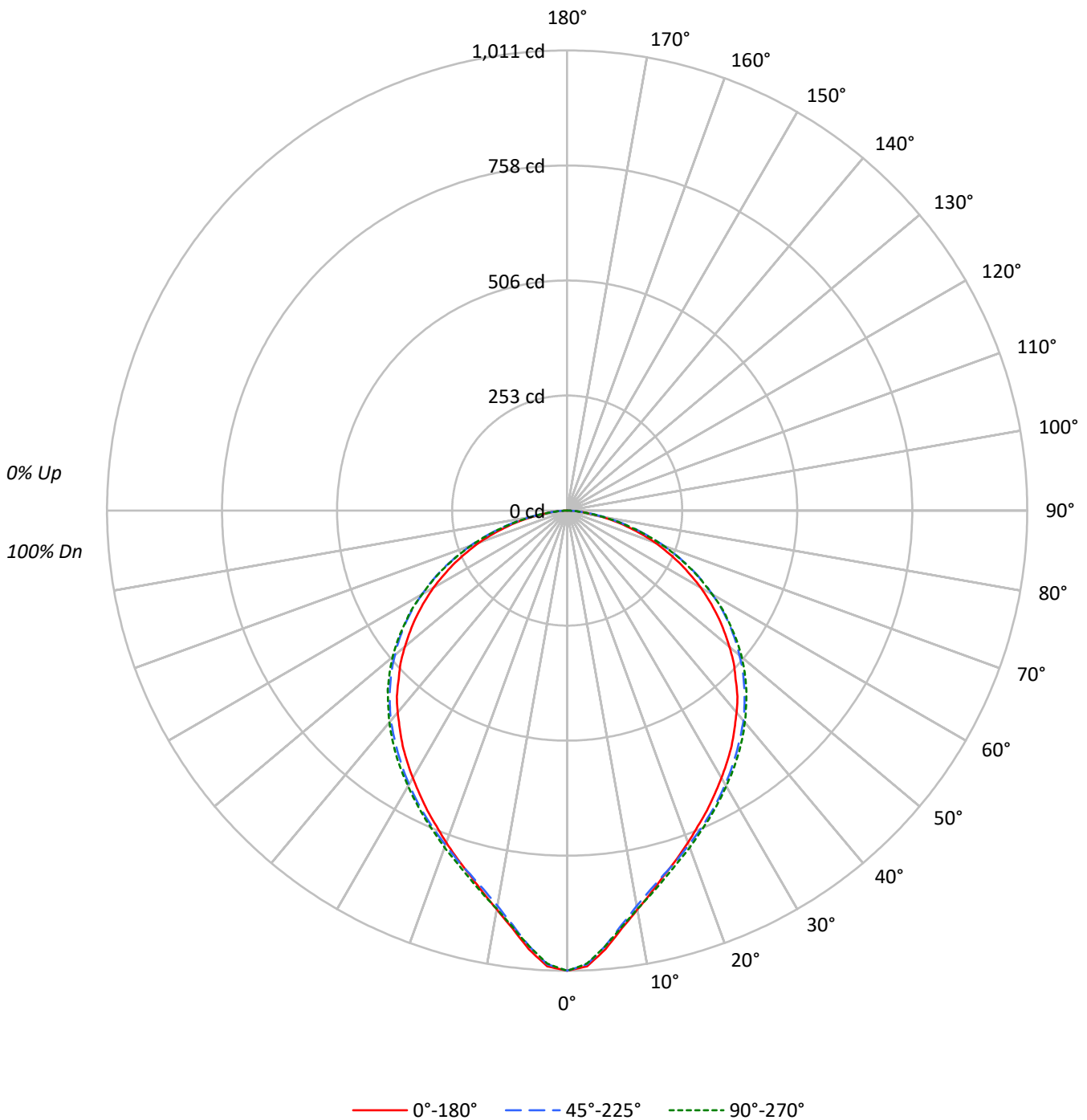
Lumens per Lamp: N/A  
Luminaire Lumens: 2348.2 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	2720	2720	2720
5°	2612	2594	2594
10°	2431	2409	2428
15°	2307	2303	2325
20°	2222	2238	2255
25°	2159	2194	2207
30°	2107	2159	2172
35°	2071	2131	2153
40°	2034	2116	2134
45°	1992	2096	2120
50°	1948	2070	2097
55°	1894	2039	2048
60°	1826	1984	1979
65°	1731	1908	1895
70°	1616	1779	1757
75°	1426	1576	1560
80°	1159	1285	1221
85°	803	818	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	3.8
10°-20°	234.0	10.0
20°-30°	340.3	14.5
30°-40°	404.9	17.2
40°-50°	420.4	17.9
50°-60°	380.9	16.2
60°-70°	287.4	12.2
70°-80°	156.6	6.7
80°-90°	34.4	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°	663.6	28.3
0°-40°	1068.5	45.5
0°-60°	1869.8	79.6
0°-90°	2348.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	967	965	960	960	960	90
15°	828	826	826	832	835	234
25°	727	733	739	745	743	335
35°	630	638	649	659	655	394
45°	523	533	551	557	557	405
55°	404	413	435	438	436	360
65°	272	280	300	299	298	269
75°	137	143	152	153	150	146
85°	26	26	26	26	26	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	1002.1	1001.1	997.8	996.5	996.3
5°	967.0	964.7	960.2	959.7	960.2
7.5°	925.0	922.5	918.0	919.7	922.0
10°	889.7	883.4	881.6	884.1	888.4
12.5°	858.1	853.1	851.5	858.1	861.1
15°	828.0	826.0	826.5	832.1	834.6
17.5°	802.0	800.8	804.1	808.3	809.6
20°	776.0	778.5	781.6	786.1	787.6
22.5°	750.5	755.3	760.4	766.4	764.4
25°	727.0	733.1	738.9	744.9	743.2
27.5°	702.0	709.1	717.2	723.7	721.2
30°	678.0	686.8	694.7	702.7	699.0
32.5°	654.3	662.6	671.9	681.8	677.5
35°	630.3	637.8	648.7	658.6	655.3
37.5°	603.7	613.1	625.4	634.0	631.8
40°	579.0	587.6	602.5	608.0	607.5
42.5°	554.0	561.0	576.7	583.0	582.0
45°	523.4	532.7	550.7	556.8	557.2
47.5°	496.4	504.2	523.4	528.2	529.2
50°	465.3	475.2	494.4	500.2	500.9
52.5°	434.7	445.3	465.0	469.1	469.9
55°	403.7	413.3	434.7	437.8	436.5
57.5°	371.1	382.7	402.4	403.9	405.2
60°	339.2	349.4	368.6	370.6	367.8
62.5°	304.6	315.0	334.7	335.2	332.9
65°	271.8	279.6	299.6	299.1	297.6
67.5°	237.4	247.0	261.7	262.2	261.0
70°	205.4	211.9	226.1	226.3	223.3
72.5°	170.8	177.8	189.2	187.7	186.9
75°	137.2	142.7	151.6	152.6	150.0
77.5°	106.4	110.4	117.0	116.2	113.4
80°	74.8	78.1	82.9	81.9	78.8
82.5°	47.7	49.8	52.8	51.5	50.3
85°	26.0	26.3	26.5	26.3	25.5
87.5°	9.6	9.9	9.9	9.6	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)