

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: P489357

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-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: P489357  
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-LD4-4STD-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

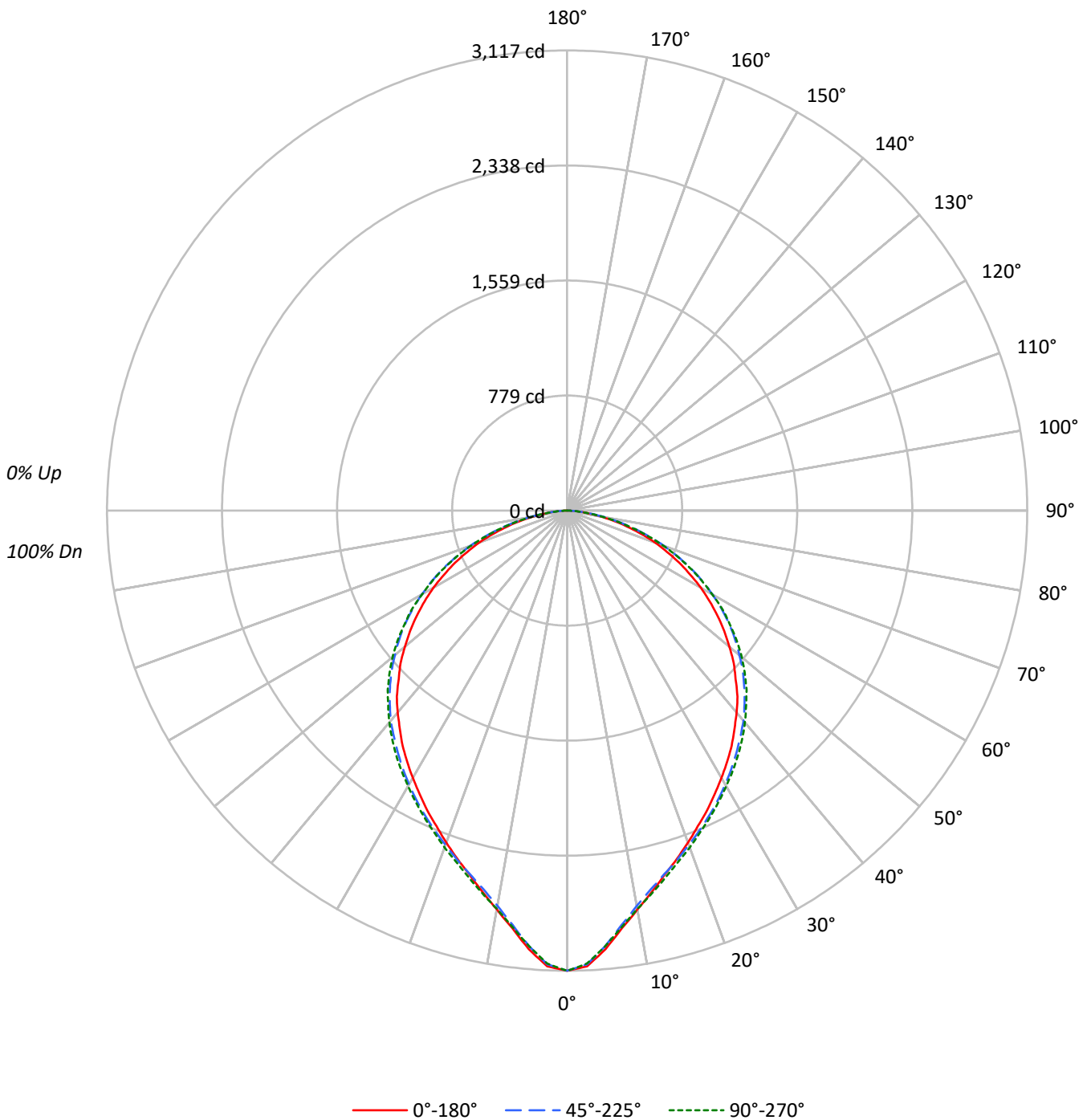
Lumens per Lamp: N/A  
Luminaire Lumens: 7240.2 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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

TEST NUMBER: P489357

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-50-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489357

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-50-120-EDD

**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	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°	8388	8388	8388
5°	8054	7997	7997
10°	7496	7427	7485
15°	7113	7100	7169
20°	6852	6901	6954
25°	6656	6764	6804
30°	6495	6655	6696
35°	6384	6570	6637
40°	6271	6525	6580
45°	6142	6462	6539
50°	6006	6381	6466
55°	5839	6289	6314
60°	5630	6116	6103
65°	5336	5882	5842
70°	4982	5485	5417
75°	4397	4859	4810
80°	3572	3959	3766
85°	2476	2526	2430



TEST NUMBER: P489357

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-50-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.4	3.8
10°-20°	721.4	10.0
20°-30°	1049.1	14.5
30°-40°	1248.4	17.2
40°-50°	1296.3	17.9
50°-60°	1174.4	16.2
60°-70°	886.2	12.2
70°-80°	482.8	6.7
80°-90°	106.1	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°	2046.0	28.3
0°-40°	3294.4	45.5
0°-60°	5765.1	79.6
0°-90°	7240.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7240.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3117	3117	3117	3117	3117	
5°	2982	2974	2960	2959	2960	277
15°	2553	2547	2548	2566	2573	721
25°	2242	2260	2278	2297	2291	1033
35°	1943	1967	2000	2030	2020	1215
45°	1614	1643	1698	1717	1718	1247
55°	1245	1274	1340	1350	1346	1111
65°	838	862	924	922	918	828
75°	423	440	467	470	463	450
85°	80	81	82	81	79	101
90°	0	0	0	0	0	



TEST NUMBER: P489357

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-50-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3117.0	3117.0	3117.0	3117.0	3117.0
2.5°	3089.7	3086.6	3076.5	3072.6	3071.8
5°	2981.5	2974.5	2960.4	2958.9	2960.4
7.5°	2852.2	2844.4	2830.4	2835.8	2842.9
10°	2743.2	2723.7	2718.2	2726.0	2739.3
12.5°	2645.8	2630.2	2625.5	2645.8	2655.2
15°	2553.1	2546.9	2548.4	2565.6	2573.3
17.5°	2472.9	2469.0	2479.1	2492.4	2496.3
20°	2392.7	2400.5	2409.8	2423.8	2428.5
22.5°	2314.0	2328.8	2344.4	2363.1	2356.8
25°	2241.6	2260.3	2278.2	2296.9	2291.4
27.5°	2164.5	2186.2	2211.2	2231.5	2223.6
30°	2090.4	2117.7	2141.9	2166.8	2155.1
32.5°	2017.3	2043.0	2071.8	2102.2	2088.9
35°	1943.3	1966.6	2000.1	2030.5	2020.4
37.5°	1861.5	1890.3	1928.4	1954.9	1948.0
40°	1785.2	1811.6	1857.6	1874.7	1873.2
42.5°	1708.0	1729.9	1778.1	1797.6	1794.5
45°	1613.8	1642.6	1697.9	1716.6	1718.2
47.5°	1530.5	1554.6	1613.8	1628.6	1631.7
50°	1434.7	1465.1	1524.2	1542.1	1544.5
52.5°	1340.4	1373.1	1433.9	1446.3	1448.7
55°	1244.6	1274.2	1340.4	1349.8	1345.9
57.5°	1144.2	1180.0	1240.8	1245.4	1249.3
60°	1046.0	1077.2	1136.4	1142.6	1134.0
62.5°	939.3	971.2	1032.0	1033.5	1026.5
65°	838.0	862.2	923.7	922.2	917.5
67.5°	732.1	761.7	806.9	808.4	804.6
70°	633.2	653.4	697.1	697.9	688.5
72.5°	526.5	548.3	583.3	578.7	576.4
75°	422.9	440.1	467.3	470.5	462.6
77.5°	327.9	340.4	360.6	358.3	349.7
80°	230.5	240.7	255.5	252.4	243.0
82.5°	147.2	153.5	162.8	158.9	155.0
85°	80.2	81.0	81.8	81.0	78.7
87.5°	29.6	30.4	30.4	29.6	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)