

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: P488792

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-50-120-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: P488792  
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-12-4-INS-P12125-LD4-2HI-50-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

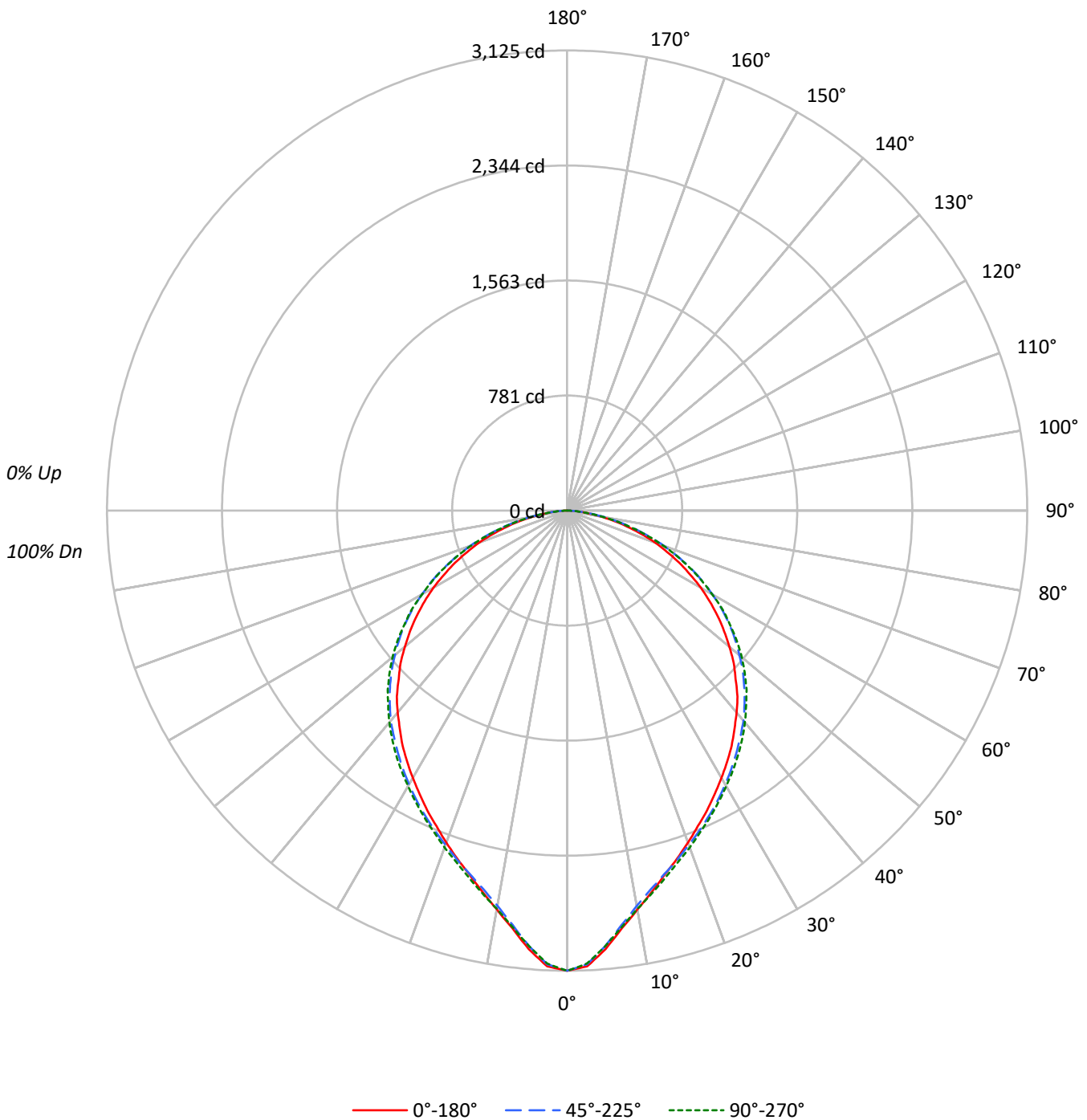
Lumens per Lamp: N/A  
Luminaire Lumens: 7258.8 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	8409	8409	8409
5°	8075	8018	8018
10°	7515	7447	7504
15°	7131	7118	7188
20°	6869	6919	6972
25°	6673	6782	6821
30°	6512	6673	6714
35°	6400	6588	6654
40°	6287	6542	6597
45°	6157	6478	6556
50°	6022	6398	6483
55°	5854	6305	6330
60°	5644	6132	6119
65°	5350	5897	5857
70°	4995	5499	5431
75°	4408	4871	4822
80°	3581	3969	3775
85°	2482	2532	2436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.1	3.8
10°-20°	723.3	10.0
20°-30°	1051.8	14.5
30°-40°	1251.6	17.2
40°-50°	1299.6	17.9
50°-60°	1177.4	16.2
60°-70°	888.5	12.2
70°-80°	484.1	6.7
80°-90°	106.4	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°	2051.3	28.3
0°-40°	3302.9	45.5
0°-60°	5779.9	79.6
0°-90°	7258.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7258.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3125	3125	3125	3125	3125	
5°	2989	2982	2968	2966	2968	277
15°	2560	2553	2555	2572	2580	722
25°	2247	2266	2284	2303	2297	1036
35°	1948	1972	2005	2036	2026	1218
45°	1618	1647	1702	1721	1723	1251
55°	1248	1278	1344	1353	1349	1114
65°	840	864	926	924	920	831
75°	424	441	468	472	464	452
85°	80	81	82	81	79	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3125.0	3125.0	3125.0	3125.0	3125.0
2.5°	3097.7	3094.6	3084.4	3080.5	3079.7
5°	2989.2	2982.1	2968.1	2966.5	2968.1
7.5°	2859.5	2851.7	2837.7	2843.1	2850.2
10°	2750.2	2730.7	2725.2	2733.0	2746.3
12.5°	2652.6	2637.0	2632.3	2652.6	2662.0
15°	2559.6	2553.4	2555.0	2572.2	2580.0
17.5°	2479.3	2475.3	2485.5	2498.8	2502.7
20°	2398.8	2406.6	2416.0	2430.1	2434.7
22.5°	2320.0	2334.8	2350.4	2369.1	2362.9
25°	2247.3	2266.1	2284.1	2302.8	2297.3
27.5°	2170.0	2191.9	2216.9	2237.2	2229.4
30°	2095.8	2123.2	2147.4	2172.3	2160.7
32.5°	2022.5	2048.2	2077.1	2107.6	2094.3
35°	1948.3	1971.7	2005.3	2035.7	2025.6
37.5°	1866.3	1895.2	1933.4	1959.9	1953.0
40°	1789.8	1816.3	1862.4	1879.6	1878.0
42.5°	1712.4	1734.3	1782.7	1802.2	1799.1
45°	1618.0	1646.8	1702.3	1721.1	1722.6
47.5°	1534.4	1558.6	1618.0	1632.8	1635.9
50°	1438.4	1468.8	1528.2	1546.1	1548.5
52.5°	1343.8	1376.6	1437.6	1450.0	1452.4
55°	1247.8	1277.5	1343.8	1353.3	1349.3
57.5°	1147.1	1183.0	1243.9	1248.6	1252.5
60°	1048.7	1079.9	1139.3	1145.5	1136.9
62.5°	941.7	973.7	1034.7	1036.2	1029.2
65°	840.2	864.4	926.1	924.5	919.8
67.5°	734.0	763.7	809.0	810.5	806.7
70°	634.8	655.1	698.9	699.7	690.3
72.5°	527.9	549.7	584.8	580.2	577.9
75°	424.0	441.2	468.5	471.7	463.8
77.5°	328.8	341.2	361.5	359.2	350.6
80°	231.1	241.3	256.1	253.0	243.6
82.5°	147.6	153.9	163.2	159.3	155.4
85°	80.4	81.2	82.0	81.2	78.9
87.5°	29.7	30.5	30.5	29.7	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)