

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: P489757

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-27-120-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: P489757  
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-24-4-INS-P12125-LD4-1HI-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

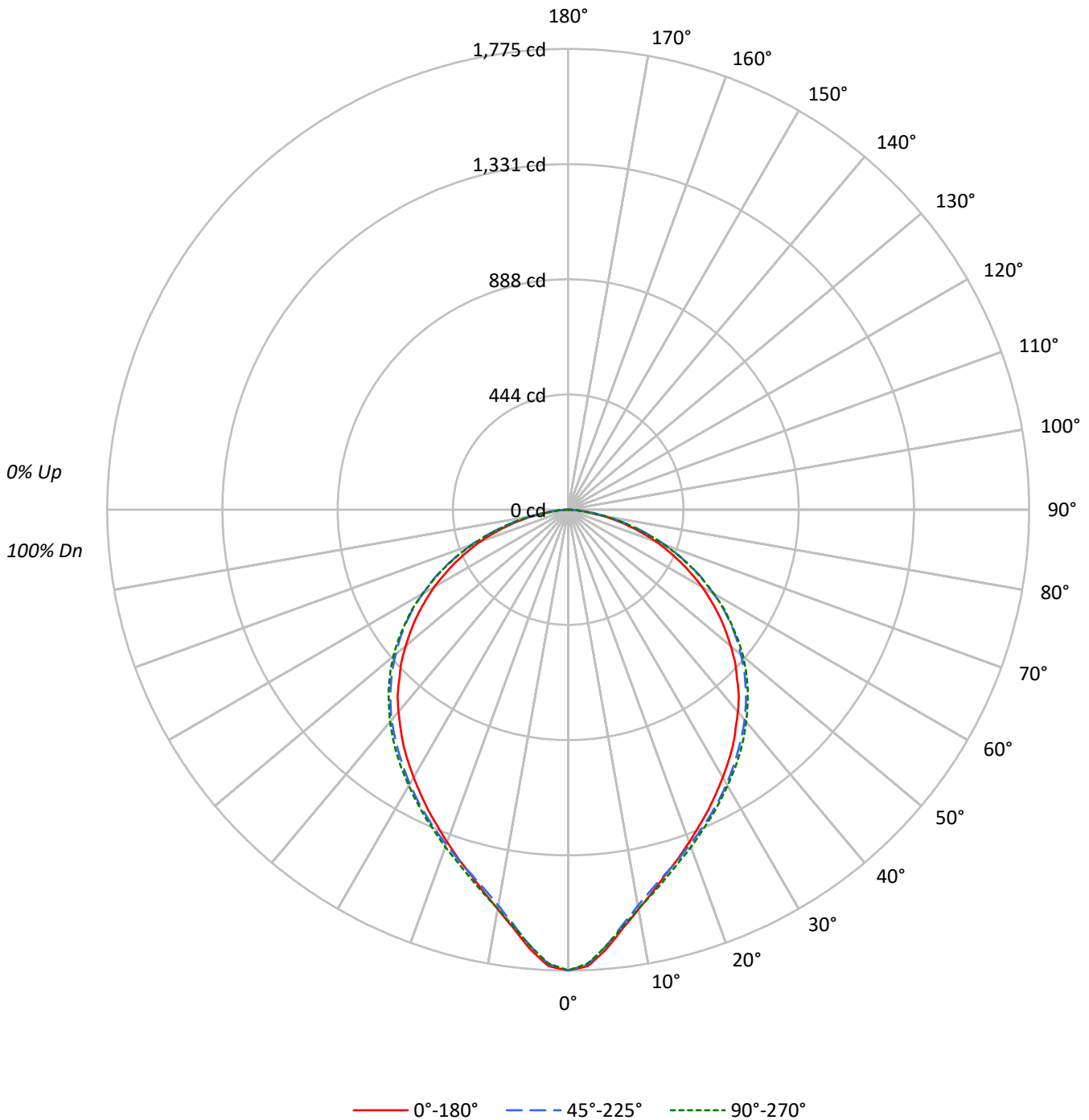
Lumens per Lamp: N/A  
Luminaire Lumens: 4122.1 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	2388	2388	2388
5°	2293	2276	2276
10°	2134	2114	2131
15°	2025	2021	2041
20°	1950	1964	1980
25°	1895	1926	1937
30°	1849	1895	1906
35°	1817	1870	1889
40°	1785	1858	1873
45°	1748	1839	1861
50°	1710	1816	1841
55°	1662	1790	1798
60°	1602	1741	1737
65°	1519	1674	1663
70°	1418	1561	1542
75°	1252	1383	1369
80°	1017	1127	1072
85°	706	719	692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	3.8
10°-20°	410.7	10.0
20°-30°	597.3	14.5
30°-40°	710.8	17.2
40°-50°	738.0	17.9
50°-60°	668.6	16.2
60°-70°	504.5	12.2
70°-80°	274.9	6.7
80°-90°	60.4	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°	1164.9	28.3
0°-40°	1875.6	45.5
0°-60°	3282.3	79.6
0°-90°	4122.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1698	1694	1686	1685	1686	158
15°	1454	1450	1451	1461	1465	410
25°	1276	1287	1297	1308	1305	588
35°	1106	1120	1139	1156	1150	692
45°	919	935	967	977	978	710
55°	709	725	763	768	766	633
65°	477	491	526	525	522	472
75°	241	250	266	268	263	256
85°	46	46	47	46	45	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1774.6	1774.6	1774.6	1774.6	1774.6
2.5°	1759.1	1757.3	1751.6	1749.3	1748.9
5°	1697.5	1693.5	1685.5	1684.6	1685.5
7.5°	1623.9	1619.4	1611.5	1614.5	1618.5
10°	1561.8	1550.7	1547.6	1552.0	1559.6
12.5°	1506.3	1497.5	1494.8	1506.3	1511.7
15°	1453.6	1450.0	1450.9	1460.7	1465.1
17.5°	1407.9	1405.7	1411.5	1419.0	1421.2
20°	1362.2	1366.7	1372.0	1380.0	1382.6
22.5°	1317.4	1325.9	1334.8	1345.4	1341.8
25°	1276.2	1286.8	1297.1	1307.7	1304.6
27.5°	1232.3	1244.7	1258.9	1270.4	1266.0
30°	1190.2	1205.7	1219.4	1233.6	1227.0
32.5°	1148.5	1163.1	1179.5	1196.8	1189.3
35°	1106.4	1119.7	1138.7	1156.0	1150.3
37.5°	1059.8	1076.2	1097.9	1113.0	1109.0
40°	1016.4	1031.4	1057.6	1067.4	1066.5
42.5°	972.4	984.9	1012.4	1023.4	1021.7
45°	918.8	935.2	966.7	977.3	978.2
47.5°	871.4	885.1	918.8	927.2	929.0
50°	816.8	834.1	867.8	878.0	879.3
52.5°	763.1	781.8	816.4	823.4	824.8
55°	708.6	725.4	763.1	768.5	766.3
57.5°	651.4	671.8	706.4	709.0	711.3
60°	595.5	613.3	647.0	650.5	645.6
62.5°	534.8	553.0	587.6	588.4	584.4
65°	477.1	490.9	525.9	525.0	522.4
67.5°	416.8	433.7	459.4	460.3	458.1
70°	360.5	372.0	396.9	397.3	392.0
72.5°	299.8	312.2	332.1	329.5	328.2
75°	240.8	250.5	266.1	267.8	263.4
77.5°	186.7	193.8	205.3	204.0	199.1
80°	131.2	137.0	145.5	143.7	138.3
82.5°	83.8	87.4	92.7	90.5	88.2
85°	45.7	46.1	46.6	46.1	44.8
87.5°	16.8	17.3	17.3	16.8	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)