

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: P489759

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-30-120-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: P489759  
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-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

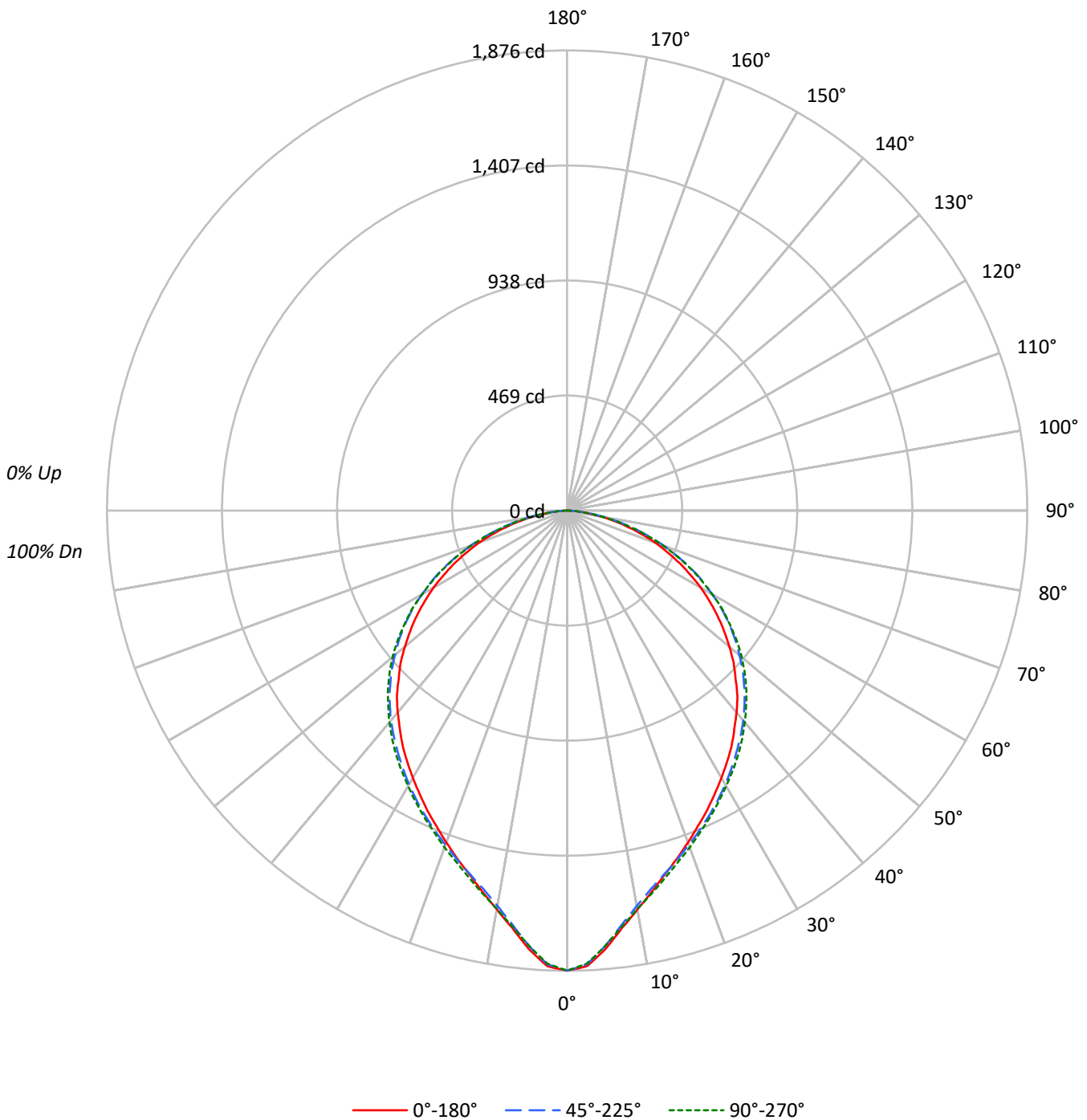
Lumens per Lamp: N/A  
Luminaire Lumens: 4356.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2523	2523	2523
5°	2423	2406	2406
10°	2255	2235	2252
15°	2140	2136	2157
20°	2061	2076	2092
25°	2002	2035	2047
30°	1954	2002	2015
35°	1921	1977	1997
40°	1887	1963	1980
45°	1848	1944	1967
50°	1807	1920	1945
55°	1757	1892	1900
60°	1694	1840	1836
65°	1606	1769	1758
70°	1499	1650	1630
75°	1323	1462	1447
80°	1075	1191	1133
85°	746	760	730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.7	3.8
10°-20°	434.1	10.0
20°-30°	631.3	14.5
30°-40°	751.2	17.2
40°-50°	780.0	17.9
50°-60°	706.6	16.2
60°-70°	533.2	12.2
70°-80°	290.5	6.7
80°-90°	63.8	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°	1231.1	28.3
0°-40°	1982.3	45.5
0°-60°	3468.9	79.6
0°-90°	4356.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1794	1790	1781	1780	1781	166
15°	1536	1532	1533	1544	1548	434
25°	1349	1360	1371	1382	1379	622
35°	1169	1183	1204	1222	1216	731
45°	971	988	1022	1033	1034	751
55°	749	767	806	812	810	669
65°	504	519	556	555	552	499
75°	254	265	281	283	278	271
85°	48	49	49	49	47	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	1859.1	1857.3	1851.2	1848.8	1848.3
5°	1794.0	1789.8	1781.3	1780.4	1781.3
7.5°	1716.2	1711.5	1703.1	1706.4	1710.6
10°	1650.6	1638.9	1635.6	1640.3	1648.2
12.5°	1592.0	1582.6	1579.8	1592.0	1597.6
15°	1536.2	1532.5	1533.4	1543.7	1548.4
17.5°	1488.0	1485.6	1491.7	1499.7	1502.0
20°	1439.7	1444.4	1450.0	1458.5	1461.2
22.5°	1392.4	1401.2	1410.7	1421.9	1418.1
25°	1348.8	1360.0	1370.8	1382.0	1378.8
27.5°	1302.4	1315.5	1330.5	1342.7	1338.0
30°	1257.8	1274.3	1288.8	1303.8	1296.8
32.5°	1213.8	1229.3	1246.6	1264.9	1256.9
35°	1169.3	1183.3	1203.5	1221.8	1215.7
37.5°	1120.1	1137.4	1160.4	1176.3	1172.1
40°	1074.2	1090.1	1117.7	1128.1	1127.1
42.5°	1027.7	1040.9	1069.9	1081.6	1079.8
45°	971.1	988.4	1021.6	1032.9	1033.8
47.5°	920.9	935.4	971.1	979.9	981.8
50°	863.3	881.5	917.2	927.9	929.3
52.5°	806.5	826.2	862.8	870.3	871.7
55°	748.9	766.7	806.5	812.2	809.8
57.5°	688.5	710.0	746.6	749.4	751.7
60°	629.4	648.1	683.8	687.5	682.4
62.5°	565.2	584.4	621.0	621.9	617.7
65°	504.3	518.8	555.8	554.9	552.1
67.5°	440.5	458.3	485.5	486.4	484.1
70°	381.0	393.2	419.4	419.9	414.3
72.5°	316.8	329.9	351.0	348.2	346.8
75°	254.5	264.8	281.2	283.1	278.4
77.5°	197.3	204.8	217.0	215.6	210.4
80°	138.7	144.8	153.7	151.9	146.2
82.5°	88.6	92.3	98.0	95.6	93.3
85°	48.3	48.7	49.2	48.7	47.3
87.5°	17.8	18.3	18.3	17.8	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)