

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: P488801

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-35-120-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: P488801  
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-LD4-2LO-35-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

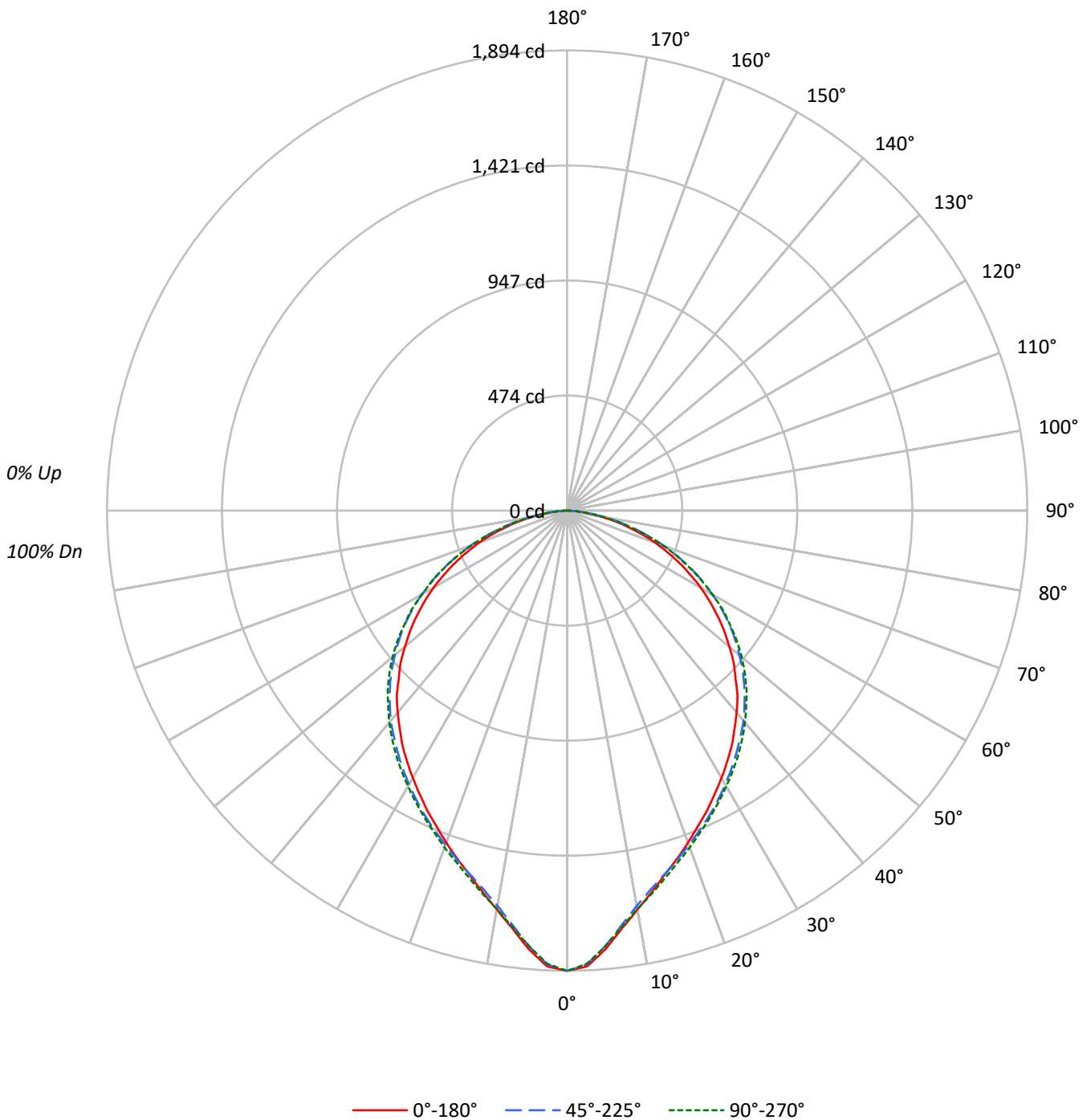
Lumens per Lamp: N/A  
Luminaire Lumens: 4400.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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°	5098	5098	5098
5°	4894	4860	4860
10°	4555	4514	4549
15°	4323	4315	4357
20°	4164	4194	4226
25°	4045	4111	4135
30°	3947	4045	4070
35°	3880	3993	4033
40°	3811	3966	3999
45°	3733	3927	3974
50°	3650	3878	3929
55°	3549	3822	3837
60°	3421	3717	3709
65°	3243	3574	3550
70°	3028	3333	3292
75°	2672	2953	2924
80°	2171	2407	2289
85°	1507	1535	1476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	3.8
10°-20°	438.4	10.0
20°-30°	637.6	14.5
30°-40°	758.7	17.2
40°-50°	787.8	17.9
50°-60°	713.7	16.2
60°-70°	538.5	12.2
70°-80°	293.4	6.7
80°-90°	64.5	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°	1243.4	28.3
0°-40°	2002.1	45.5
0°-60°	3503.5	79.6
0°-90°	4400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1812	1808	1799	1798	1799	168
15°	1552	1548	1549	1559	1564	438
25°	1362	1374	1384	1396	1392	628
35°	1181	1195	1216	1234	1228	738
45°	981	998	1032	1043	1044	758
55°	756	774	815	820	818	675
65°	509	524	561	560	558	503
75°	257	267	284	286	281	274
85°	49	49	50	49	48	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1894.3	1894.3	1894.3	1894.3	1894.3
2.5°	1877.7	1875.8	1869.6	1867.3	1866.8
5°	1811.9	1807.6	1799.1	1798.2	1799.1
7.5°	1733.3	1728.6	1720.1	1723.4	1727.7
10°	1667.1	1655.2	1651.9	1656.6	1664.7
12.5°	1607.9	1598.4	1595.6	1607.9	1613.6
15°	1551.6	1547.8	1548.7	1559.2	1563.9
17.5°	1502.8	1500.5	1506.6	1514.7	1517.0
20°	1454.1	1458.8	1464.5	1473.0	1475.8
22.5°	1406.3	1415.2	1424.7	1436.1	1432.3
25°	1362.3	1373.6	1384.5	1395.8	1392.5
27.5°	1315.4	1328.6	1343.8	1356.1	1351.3
30°	1270.4	1287.0	1301.7	1316.8	1309.7
32.5°	1225.9	1241.5	1259.1	1277.5	1269.5
35°	1181.0	1195.2	1215.5	1234.0	1227.8
37.5°	1131.3	1148.8	1171.9	1188.0	1183.8
40°	1084.9	1101.0	1128.9	1139.3	1138.3
42.5°	1038.0	1051.3	1080.6	1092.4	1090.6
45°	980.8	998.3	1031.8	1043.2	1044.2
47.5°	930.1	944.8	980.8	989.7	991.6
50°	871.9	890.3	926.3	937.2	938.6
52.5°	814.6	834.5	871.4	879.0	880.4
55°	756.4	774.3	814.6	820.3	817.9
57.5°	695.3	717.1	754.0	756.8	759.2
60°	635.7	654.6	690.6	694.4	689.2
62.5°	570.8	590.2	627.2	628.1	623.8
65°	509.3	524.0	561.3	560.4	557.6
67.5°	444.9	462.9	490.4	491.3	489.0
70°	384.8	397.1	423.6	424.1	418.4
72.5°	320.0	333.2	354.5	351.7	350.3
75°	257.0	267.4	284.0	285.9	281.2
77.5°	199.3	206.8	219.2	217.7	212.5
80°	140.1	146.3	155.3	153.4	147.7
82.5°	89.4	93.3	98.9	96.6	94.2
85°	48.8	49.2	49.7	49.2	47.8
87.5°	18.0	18.5	18.5	18.0	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)