

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: P489446

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-30-120-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: P489446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-2LO-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

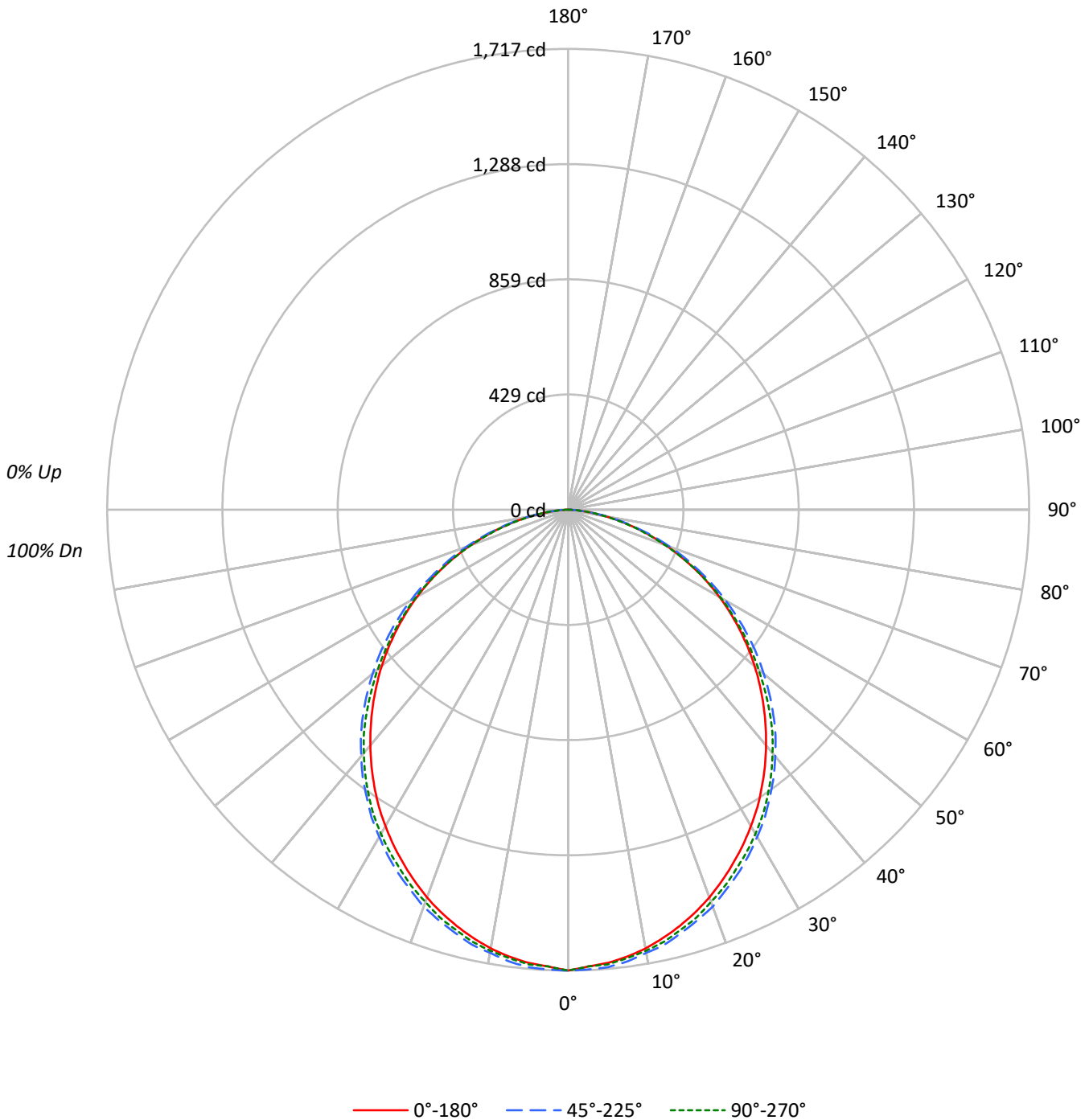
Lumens per Lamp: N/A  
Luminaire Lumens: 4514.3 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2310	2310	2310
5°	2289	2310	2296
10°	2268	2291	2280
15°	2237	2273	2257
20°	2201	2254	2227
25°	2158	2221	2196
30°	2115	2187	2167
35°	2067	2149	2129
40°	2014	2106	2080
45°	1957	2056	2017
50°	1898	1990	1938
55°	1829	1915	1856
60°	1751	1824	1768
65°	1651	1714	1652
70°	1519	1580	1502
75°	1338	1398	1317
80°	1087	1134	1074
85°	756	806	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	3.6
10°-20°	458.3	10.2
20°-30°	683.5	15.1
30°-40°	809.9	17.9
40°-50°	819.5	18.2
50°-60°	715.7	15.9
60°-70°	523.0	11.6
70°-80°	278.3	6.2
80°-90°	64.3	1.4
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°	1303.5	28.9
0°-40°	2113.4	46.8
0°-60°	3648.7	80.8
0°-90°	4514.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4514.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1695	1698	1711	1715	1700	161
15°	1606	1616	1632	1641	1620	453
25°	1454	1472	1496	1502	1479	670
35°	1259	1278	1308	1318	1296	787
45°	1028	1047	1080	1081	1060	793
55°	780	796	816	804	791	697
65°	518	529	538	528	519	513
75°	257	263	269	259	253	274
85°	49	50	52	53	51	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1717.1	1717.1	1717.1	1717.1	1717.1
2.5°	1703.7	1709.2	1714.9	1717.4	1703.5
5°	1694.7	1697.9	1710.6	1714.6	1700.1
7.5°	1680.0	1684.9	1697.2	1699.0	1685.1
10°	1660.0	1668.6	1676.8	1685.8	1668.8
12.5°	1634.4	1646.1	1660.0	1661.6	1648.7
15°	1605.6	1616.4	1631.6	1641.4	1620.1
17.5°	1573.4	1583.8	1603.5	1605.3	1592.4
20°	1537.5	1550.3	1574.0	1578.1	1555.0
22.5°	1496.7	1514.0	1533.7	1537.6	1520.6
25°	1453.9	1471.8	1496.1	1501.7	1479.0
27.5°	1409.2	1426.4	1453.7	1457.7	1438.5
30°	1361.2	1377.3	1407.4	1414.0	1394.5
32.5°	1312.6	1328.7	1362.0	1367.5	1348.5
35°	1258.6	1278.2	1308.5	1317.6	1296.3
37.5°	1203.5	1222.6	1256.9	1265.2	1242.3
40°	1146.4	1165.4	1199.2	1206.0	1184.0
42.5°	1088.1	1107.0	1143.2	1144.2	1126.0
45°	1028.5	1046.7	1080.4	1081.3	1060.0
47.5°	968.0	986.5	1016.5	1013.1	993.1
50°	906.8	924.4	950.7	943.9	925.8
52.5°	843.5	860.5	885.4	874.3	857.3
55°	779.8	795.6	816.3	804.5	791.3
57.5°	715.6	731.5	747.4	735.5	724.0
60°	650.8	664.8	677.9	665.7	656.9
62.5°	585.0	597.0	608.3	596.6	588.4
65°	518.5	529.0	538.3	527.6	518.8
67.5°	452.3	461.2	469.8	458.7	449.6
70°	386.1	393.8	401.6	390.2	381.8
72.5°	320.8	327.6	334.5	323.5	316.1
75°	257.3	263.2	268.9	259.0	253.3
77.5°	196.6	201.6	205.6	199.3	193.7
80°	140.3	144.0	146.3	143.8	138.6
82.5°	90.2	92.8	94.1	93.9	90.5
85°	49.0	49.9	52.2	52.8	51.0
87.5°	19.0	20.2	20.8	22.4	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)