

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: P489399

Luminaire Tested: **CLM-24-4-INS-A12125-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: P489399  
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-LD4-1HI-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

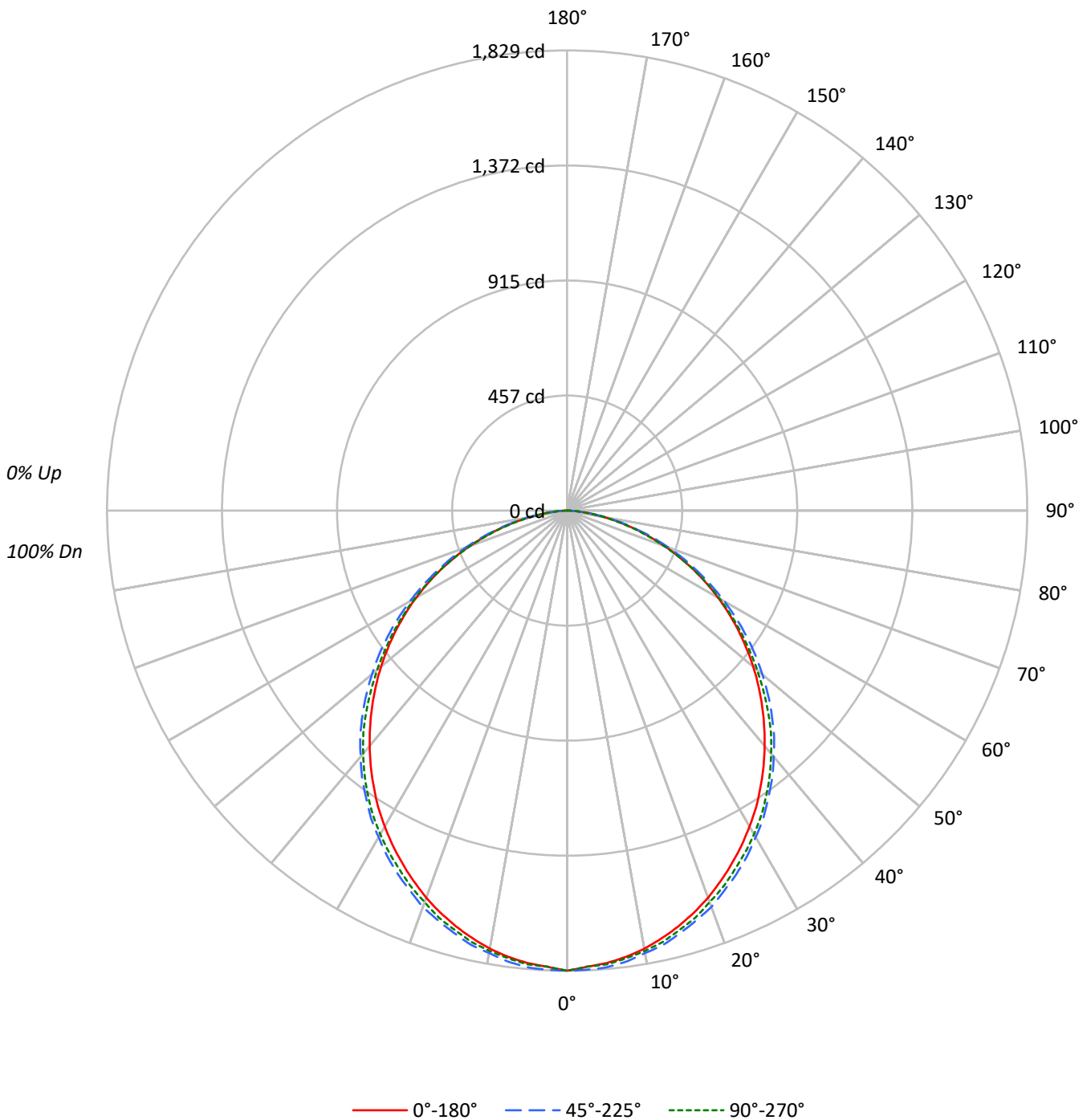
Lumens per Lamp: N/A  
Luminaire Lumens: 4808.2 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	2461	2461	2461
5°	2438	2461	2446
10°	2416	2440	2428
15°	2382	2421	2404
20°	2345	2400	2371
25°	2299	2366	2339
30°	2253	2329	2308
35°	2202	2289	2268
40°	2145	2243	2215
45°	2085	2190	2148
50°	2022	2120	2064
55°	1948	2040	1977
60°	1865	1943	1883
65°	1758	1826	1759
70°	1618	1683	1600
75°	1424	1489	1403
80°	1158	1208	1144
85°	806	858	838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	3.6
10°-20°	488.1	10.2
20°-30°	728.0	15.1
30°-40°	862.7	17.9
40°-50°	872.9	18.2
50°-60°	762.3	15.9
60°-70°	557.1	11.6
70°-80°	296.4	6.2
80°-90°	68.5	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°	1388.3	28.9
0°-40°	2251.0	46.8
0°-60°	3886.2	80.8
0°-90°	4808.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4808.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1805	1808	1822	1826	1811	171
15°	1710	1722	1738	1748	1726	482
25°	1549	1568	1594	1599	1575	713
35°	1340	1362	1394	1403	1381	838
45°	1096	1115	1151	1152	1129	845
55°	831	847	870	857	843	742
65°	552	563	573	562	553	546
75°	274	280	286	276	270	291
85°	52	53	56	56	54	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1828.9	1828.9	1828.9	1828.9	1828.9
2.5°	1814.6	1820.5	1826.6	1829.2	1814.4
5°	1805.0	1808.5	1822.0	1826.2	1810.8
7.5°	1789.4	1794.6	1807.7	1809.6	1794.8
10°	1768.1	1777.2	1786.0	1795.5	1777.4
12.5°	1740.8	1753.2	1768.1	1769.8	1756.1
15°	1710.2	1721.6	1737.8	1748.3	1725.6
17.5°	1675.9	1686.9	1707.9	1709.8	1696.1
20°	1637.6	1651.3	1676.4	1680.8	1656.2
22.5°	1594.1	1612.6	1633.6	1637.7	1619.6
25°	1548.6	1567.6	1593.5	1599.4	1575.3
27.5°	1500.9	1519.2	1548.4	1552.6	1532.2
30°	1449.9	1467.0	1499.0	1506.1	1485.3
32.5°	1398.0	1415.2	1450.6	1456.5	1436.3
35°	1340.5	1361.5	1393.7	1403.4	1380.7
37.5°	1281.8	1302.2	1338.8	1347.5	1323.2
40°	1221.0	1241.2	1277.2	1284.5	1261.0
42.5°	1158.9	1179.1	1217.6	1218.7	1199.3
45°	1095.5	1114.9	1150.7	1151.7	1129.0
47.5°	1031.0	1050.7	1082.7	1079.1	1057.7
50°	965.9	984.6	1012.6	1005.3	986.1
52.5°	898.4	916.5	943.0	931.2	913.1
55°	830.6	847.4	869.5	856.9	842.8
57.5°	762.2	779.1	796.1	783.3	771.1
60°	693.2	708.1	722.0	709.0	699.7
62.5°	623.1	635.9	647.9	635.5	626.7
65°	552.2	563.4	573.4	561.9	552.6
67.5°	481.7	491.2	500.4	488.6	478.8
70°	411.2	419.4	427.8	415.6	406.6
72.5°	341.7	348.9	356.3	344.5	336.7
75°	274.0	280.3	286.4	275.9	269.8
77.5°	209.4	214.7	218.9	212.3	206.4
80°	149.4	153.4	155.9	153.2	147.7
82.5°	96.0	98.9	100.2	100.0	96.4
85°	52.2	53.2	55.6	56.2	54.3
87.5°	20.2	21.5	22.1	23.8	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)