

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: P489425

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-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: P489425
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-LD4-1STD-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

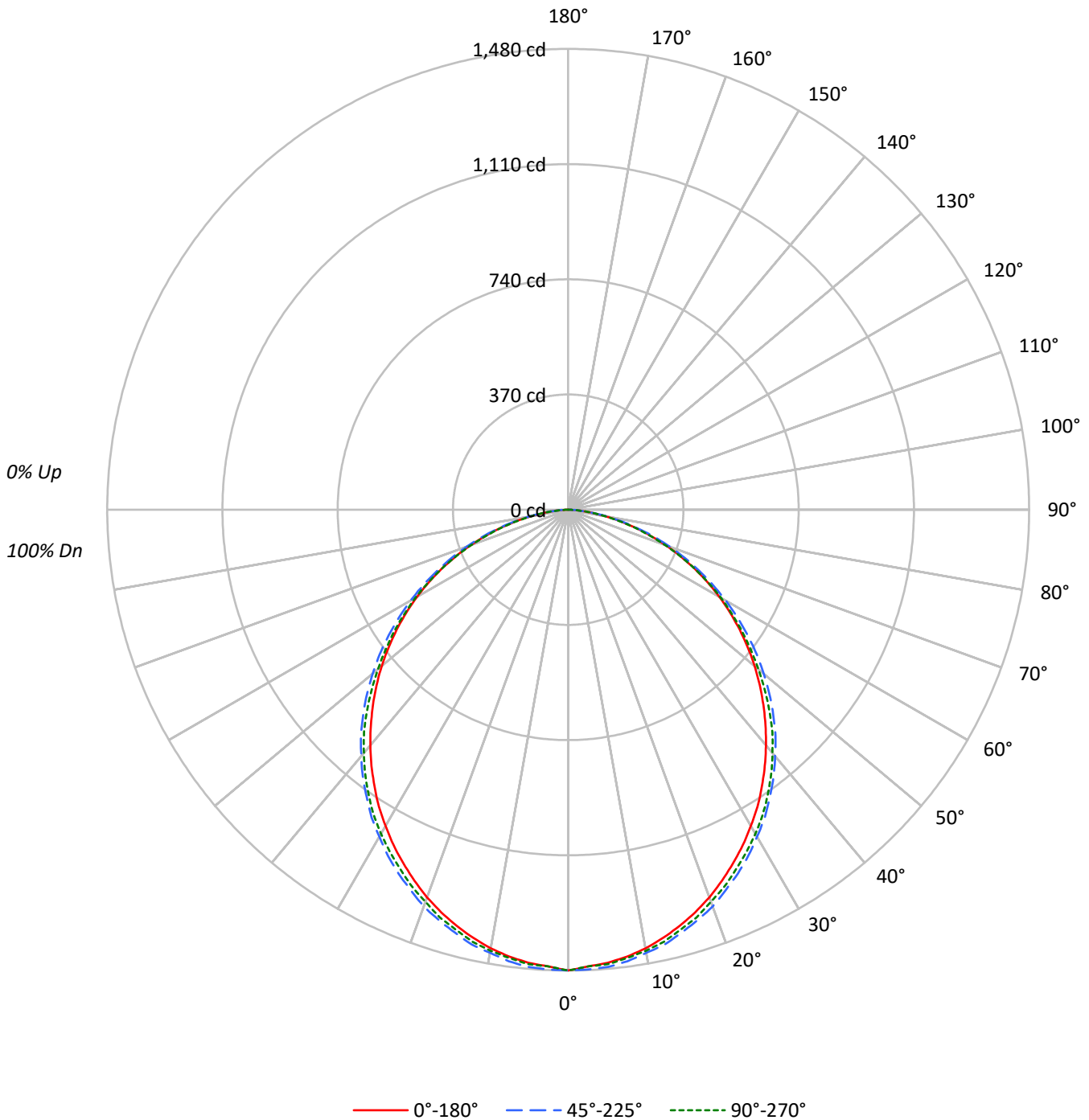
Lumens per Lamp: N/A
Luminaire Lumens: 3890.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	1991	1991	1991
5°	1972	1991	1979
10°	1954	1974	1965
15°	1927	1958	1945
20°	1897	1942	1919
25°	1860	1914	1892
30°	1822	1884	1867
35°	1781	1852	1835
40°	1735	1815	1792
45°	1686	1772	1738
50°	1636	1715	1670
55°	1576	1650	1600
60°	1509	1572	1523
65°	1422	1477	1423
70°	1309	1362	1294
75°	1153	1205	1135
80°	937	977	926
85°	651	695	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	3.6
10°-20°	394.9	10.2
20°-30°	589.0	15.1
30°-40°	697.9	17.9
40°-50°	706.2	18.2
50°-60°	616.8	15.9
60°-70°	450.7	11.6
70°-80°	239.8	6.2
80°-90°	55.4	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°	1123.2	28.9
0°-40°	1821.2	46.8
0°-60°	3144.2	80.8
0°-90°	3890.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3890.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1460	1463	1474	1478	1465	138
15°	1384	1393	1406	1414	1396	390
25°	1253	1268	1289	1294	1274	577
35°	1084	1102	1128	1135	1117	678
45°	886	902	931	932	913	684
55°	672	686	703	693	682	601
65°	447	456	464	455	447	442
75°	222	227	232	223	218	236
85°	42	43	45	46	44	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.7	1479.7	1479.7	1479.7	1479.7
2.5°	1468.1	1472.9	1477.8	1480.0	1467.9
5°	1460.4	1463.2	1474.1	1477.5	1465.0
7.5°	1447.7	1451.9	1462.5	1464.1	1452.1
10°	1430.5	1437.9	1445.0	1452.7	1438.0
12.5°	1408.4	1418.5	1430.5	1431.9	1420.8
15°	1383.6	1392.9	1406.0	1414.4	1396.1
17.5°	1355.9	1364.8	1381.8	1383.3	1372.2
20°	1324.9	1336.0	1356.3	1359.9	1340.0
22.5°	1289.7	1304.7	1321.6	1325.0	1310.4
25°	1252.9	1268.3	1289.3	1294.0	1274.5
27.5°	1214.3	1229.1	1252.7	1256.1	1239.6
30°	1173.0	1186.9	1212.8	1218.5	1201.7
32.5°	1131.1	1145.0	1173.6	1178.4	1162.1
35°	1084.5	1101.5	1127.5	1135.4	1117.1
37.5°	1037.1	1053.5	1083.1	1090.2	1070.5
40°	987.9	1004.2	1033.4	1039.2	1020.3
42.5°	937.6	954.0	985.1	986.0	970.3
45°	886.3	902.0	931.0	931.8	913.4
47.5°	834.2	850.1	876.0	873.0	855.8
50°	781.5	796.6	819.2	813.4	797.8
52.5°	726.9	741.5	763.0	753.4	738.7
55°	672.0	685.6	703.4	693.3	681.9
57.5°	616.7	630.4	644.1	633.8	623.9
60°	560.8	572.9	584.1	573.6	566.1
62.5°	504.1	514.4	524.2	514.1	507.0
65°	446.8	455.9	463.9	454.6	447.1
67.5°	389.7	397.4	404.8	395.3	387.4
70°	332.7	339.3	346.1	336.2	329.0
72.5°	276.4	282.3	288.3	278.7	272.4
75°	221.7	226.8	231.7	223.2	218.3
77.5°	169.4	173.7	177.1	171.7	167.0
80°	120.9	124.1	126.1	123.9	119.5
82.5°	77.7	80.0	81.1	80.9	78.0
85°	42.2	43.0	45.0	45.5	43.9
87.5°	16.3	17.4	17.9	19.3	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)