

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: P489451

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-40-120-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: P489451
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-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

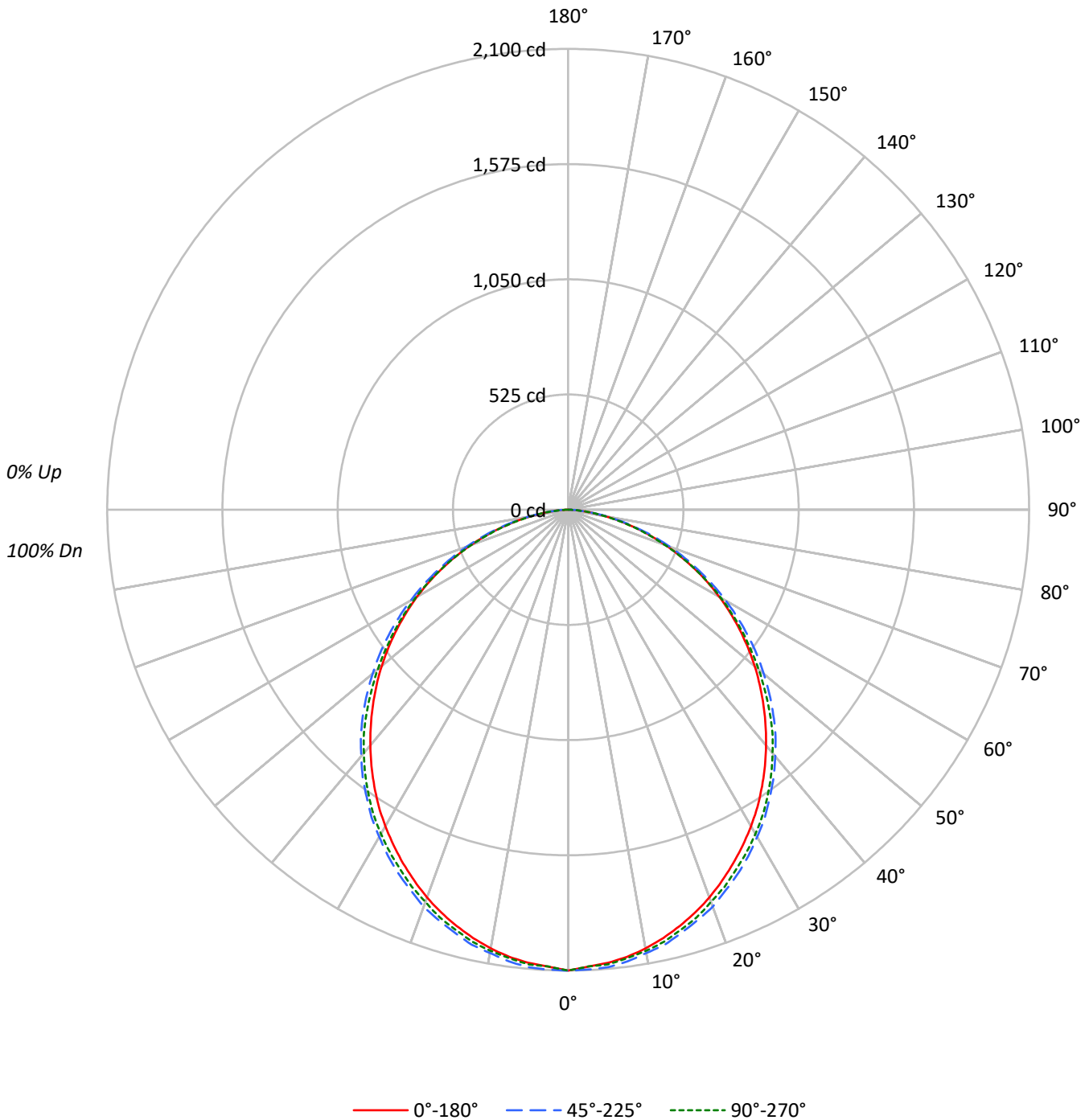
Lumens per Lamp: N/A
Luminaire Lumens: 5521.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2826	2826	2826
5°	2800	2826	2809
10°	2774	2802	2789
15°	2736	2780	2760
20°	2693	2757	2723
25°	2640	2717	2686
30°	2587	2675	2650
35°	2529	2629	2604
40°	2463	2576	2544
45°	2394	2515	2467
50°	2322	2434	2370
55°	2238	2342	2270
60°	2142	2231	2162
65°	2019	2096	2020
70°	1858	1933	1837
75°	1636	1710	1611
80°	1330	1387	1314
85°	926	986	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	3.6
10°-20°	560.5	10.2
20°-30°	836.0	15.1
30°-40°	990.7	17.9
40°-50°	1002.4	18.2
50°-60°	875.5	15.9
60°-70°	639.8	11.6
70°-80°	340.4	6.2
80°-90°	78.7	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°	1594.4	28.9
0°-40°	2585.0	46.8
0°-60°	4463.0	80.8
0°-90°	5521.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5521.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2073	2077	2092	2097	2080	197
15°	1964	1977	1996	2008	1982	554
25°	1778	1800	1830	1837	1809	819
35°	1539	1564	1600	1612	1586	963
45°	1258	1280	1322	1323	1296	971
55°	954	973	998	984	968	853
65°	634	647	658	645	635	628
75°	315	322	329	317	310	335
85°	60	61	64	65	62	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.3	2100.3	2100.3	2100.3	2100.3
2.5°	2083.9	2090.7	2097.7	2100.7	2083.7
5°	2072.9	2076.9	2092.4	2097.2	2079.5
7.5°	2055.0	2060.9	2076.0	2078.2	2061.1
10°	2030.5	2041.0	2051.1	2062.0	2041.2
12.5°	1999.2	2013.4	2030.5	2032.5	2016.7
15°	1964.0	1977.1	1995.7	2007.7	1981.7
17.5°	1924.6	1937.3	1961.3	1963.5	1947.8
20°	1880.6	1896.3	1925.2	1930.3	1902.0
22.5°	1830.7	1851.9	1876.0	1880.8	1860.0
25°	1778.4	1800.3	1830.0	1836.8	1809.0
27.5°	1723.7	1744.7	1778.2	1783.0	1759.6
30°	1665.1	1684.7	1721.5	1729.6	1705.8
32.5°	1605.5	1625.2	1665.9	1672.7	1649.5
35°	1539.4	1563.5	1600.5	1611.7	1585.6
37.5°	1472.0	1495.5	1537.5	1547.5	1519.5
40°	1402.2	1425.4	1466.8	1475.1	1448.2
42.5°	1330.9	1354.1	1398.3	1399.6	1377.3
45°	1258.0	1280.4	1321.5	1322.6	1296.5
47.5°	1184.1	1206.6	1243.4	1239.2	1214.7
50°	1109.2	1130.7	1162.8	1154.5	1132.4
52.5°	1031.8	1052.6	1083.0	1069.4	1048.6
55°	953.9	973.1	998.5	984.1	967.9
57.5°	875.3	894.8	914.3	899.6	885.6
60°	796.1	813.2	829.1	814.3	803.5
62.5°	715.6	730.2	744.0	729.8	719.7
65°	634.2	647.1	658.4	645.3	634.6
67.5°	553.2	564.1	574.6	561.1	549.9
70°	472.2	481.6	491.3	477.3	467.0
72.5°	392.4	400.7	409.2	395.6	386.7
75°	314.7	321.9	328.9	316.9	309.9
77.5°	240.5	246.6	251.4	243.8	237.0
80°	171.6	176.2	179.0	175.9	169.6
82.5°	110.3	113.6	115.1	114.9	110.7
85°	60.0	61.1	63.9	64.6	62.4
87.5°	23.2	24.7	25.4	27.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)