

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: P488983

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-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: P488983
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-24-2-INS-A12125-LD4-4LO-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

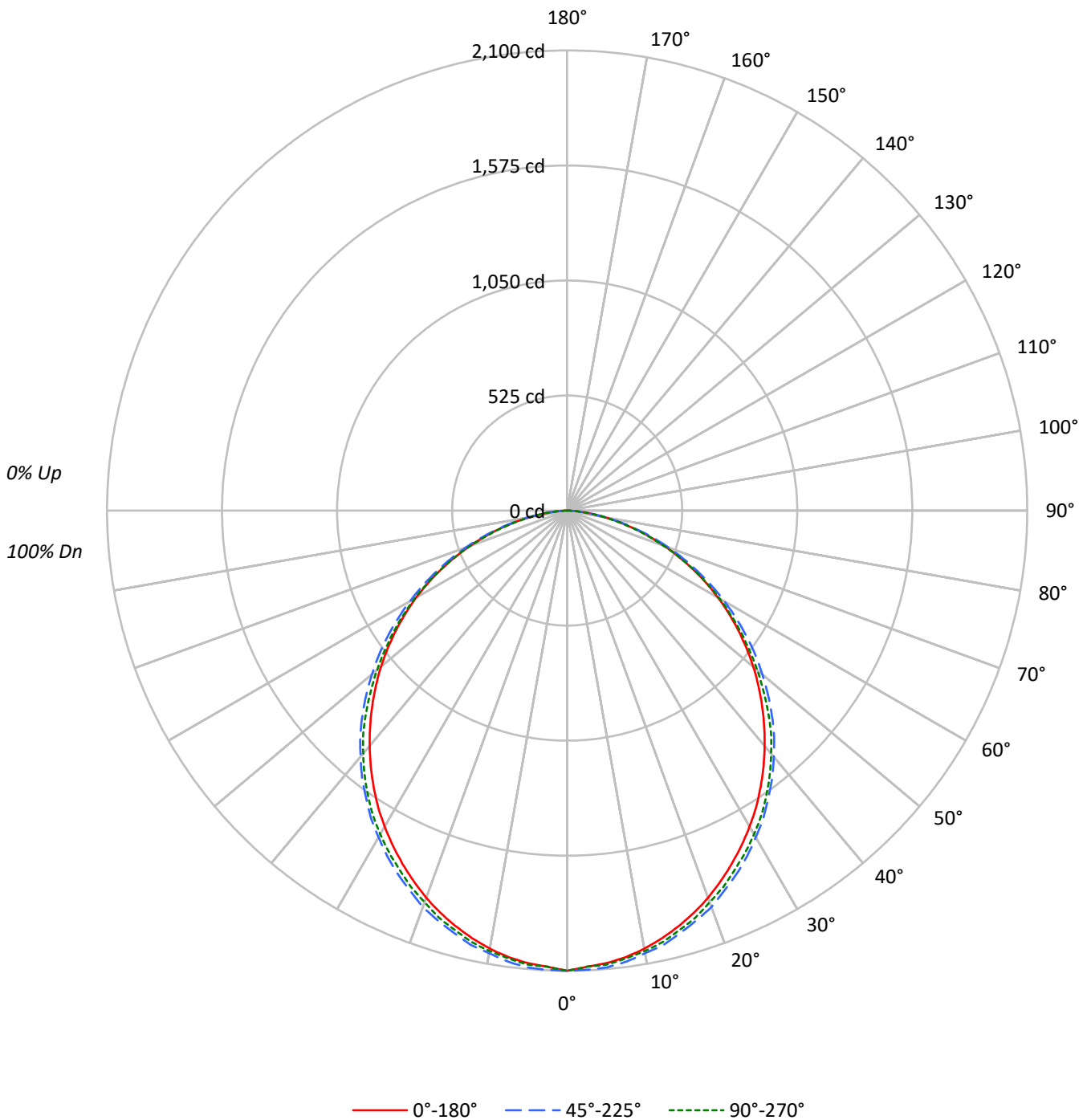
Lumens per Lamp: N/A
Luminaire Lumens: 5521.6 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488983

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4LO-40-120-EDD

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°	5652	5652	5652
5°	5599	5652	5617
10°	5548	5604	5577
15°	5471	5560	5521
20°	5385	5513	5447
25°	5280	5434	5371
30°	5174	5349	5300
35°	5057	5257	5209
40°	4926	5152	5087
45°	4787	5029	4934
50°	4644	4868	4741
55°	4475	4685	4541
60°	4285	4462	4324
65°	4038	4192	4041
70°	3715	3865	3674
75°	3272	3420	3221
80°	2659	2774	2628
85°	1853	1973	1927



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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°	875.4	15.9
60°-70°	639.7	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°	1594.3	28.9
0°-40°	2585.0	46.8
0°-60°	4462.8	80.8
0°-90°	5521.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5521.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2073	2077	2092	2097	2079	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	1321	1322	1296	970
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°	2100.2	2100.2	2100.2	2100.2	2100.2
2.5°	2083.8	2090.6	2097.6	2100.7	2083.6
5°	2072.9	2076.8	2092.3	2097.2	2079.4
7.5°	2054.9	2060.8	2075.9	2078.1	2061.1
10°	2030.4	2040.9	2051.0	2061.9	2041.1
12.5°	1999.1	2013.3	2030.4	2032.4	2016.6
15°	1963.9	1977.0	1995.6	2007.7	1981.6
17.5°	1924.5	1937.2	1961.3	1963.5	1947.7
20°	1880.5	1896.3	1925.2	1930.2	1902.0
22.5°	1830.6	1851.9	1875.9	1880.7	1860.0
25°	1778.3	1800.2	1830.0	1836.8	1809.0
27.5°	1723.6	1744.6	1778.1	1782.9	1759.5
30°	1665.0	1684.7	1721.4	1729.5	1705.7
32.5°	1605.5	1625.2	1665.9	1672.6	1649.5
35°	1539.4	1563.5	1600.4	1611.6	1585.6
37.5°	1472.0	1495.4	1537.4	1547.5	1519.5
40°	1402.2	1425.4	1466.7	1475.1	1448.1
42.5°	1330.9	1354.0	1398.3	1399.6	1377.2
45°	1258.0	1280.3	1321.4	1322.5	1296.5
47.5°	1184.0	1206.6	1243.3	1239.2	1214.7
50°	1109.2	1130.6	1162.8	1154.5	1132.4
52.5°	1031.7	1052.5	1082.9	1069.4	1048.6
55°	953.8	973.1	998.5	984.0	967.8
57.5°	875.3	894.7	914.2	899.6	885.6
60°	796.1	813.1	829.1	814.2	803.5
62.5°	715.5	730.2	744.0	729.8	719.7
65°	634.1	647.0	658.4	645.3	634.6
67.5°	553.2	564.1	574.6	561.1	549.9
70°	472.2	481.6	491.2	477.2	467.0
72.5°	392.3	400.7	409.2	395.6	386.7
75°	314.7	321.9	328.9	316.8	309.8
77.5°	240.5	246.6	251.4	243.8	237.0
80°	171.6	176.1	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)