

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: P488541

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-50-120-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: P488541
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-12-4-INS-A12125-LD4-1HI-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

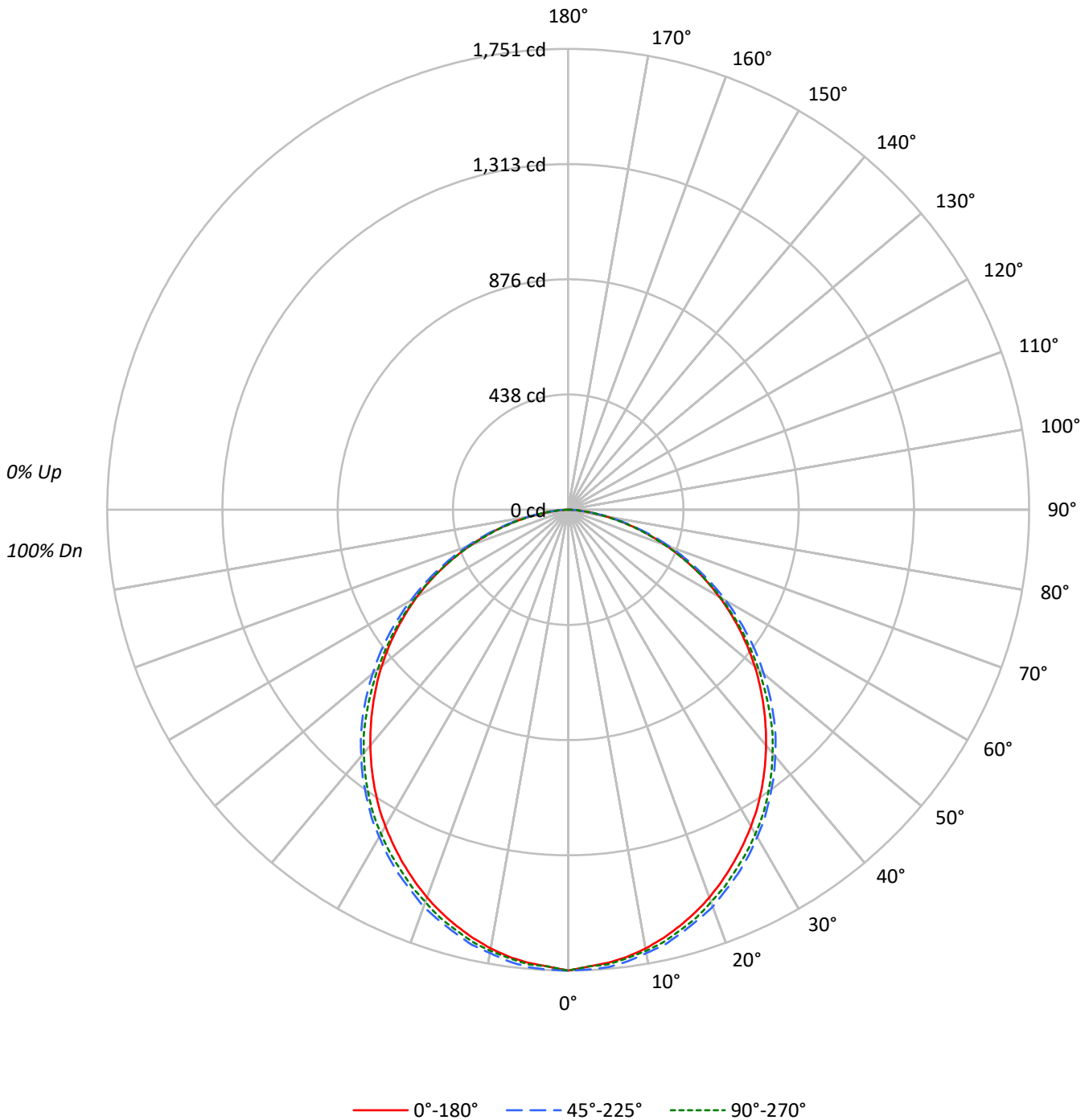
Lumens per Lamp: N/A
Luminaire Lumens: 4604.3 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4713	4713	4713
5°	4669	4713	4684
10°	4626	4673	4651
15°	4562	4636	4603
20°	4491	4597	4542
25°	4403	4531	4479
30°	4314	4460	4419
35°	4217	4384	4344
40°	4107	4297	4242
45°	3992	4193	4114
50°	3872	4059	3953
55°	3732	3906	3786
60°	3573	3721	3606
65°	3367	3496	3370
70°	3098	3223	3064
75°	2728	2851	2687
80°	2218	2314	2191
85°	1544	1646	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.6
10°-20°	467.4	10.2
20°-30°	697.1	15.1
30°-40°	826.1	17.9
40°-50°	835.9	18.2
50°-60°	730.0	15.9
60°-70°	533.5	11.6
70°-80°	283.8	6.2
80°-90°	65.6	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°	1329.4	28.9
0°-40°	2155.5	46.8
0°-60°	3721.4	80.8
0°-90°	4604.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4604.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1728	1732	1745	1749	1734	164
15°	1638	1649	1664	1674	1652	462
25°	1483	1501	1526	1532	1508	683
35°	1284	1304	1335	1344	1322	803
45°	1049	1068	1102	1103	1081	809
55°	795	811	833	821	807	711
65°	529	540	549	538	529	523
75°	262	268	274	264	258	279
85°	50	51	53	54	52	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.3	1751.3	1751.3	1751.3	1751.3
2.5°	1737.6	1743.3	1749.1	1751.7	1737.4
5°	1728.5	1731.8	1744.7	1748.8	1734.0
7.5°	1713.5	1718.5	1731.1	1732.9	1718.7
10°	1693.1	1701.9	1710.3	1719.4	1702.0
12.5°	1667.0	1678.9	1693.1	1694.7	1681.6
15°	1637.6	1648.6	1664.1	1674.1	1652.4
17.5°	1604.8	1615.4	1635.4	1637.3	1624.1
20°	1568.1	1581.3	1605.3	1609.5	1586.0
22.5°	1526.5	1544.2	1564.3	1568.3	1551.0
25°	1482.9	1501.2	1526.0	1531.6	1508.4
27.5°	1437.3	1454.8	1482.7	1486.7	1467.2
30°	1388.4	1404.8	1435.5	1442.2	1422.3
32.5°	1338.8	1355.2	1389.1	1394.8	1375.4
35°	1283.7	1303.7	1334.6	1343.9	1322.2
37.5°	1227.5	1247.0	1282.0	1290.4	1267.0
40°	1169.2	1188.6	1223.1	1230.0	1207.6
42.5°	1109.8	1129.1	1166.0	1167.1	1148.4
45°	1049.0	1067.6	1101.9	1102.8	1081.1
47.5°	987.3	1006.1	1036.8	1033.3	1012.9
50°	924.9	942.8	969.6	962.7	944.3
52.5°	860.3	877.7	903.0	891.7	874.4
55°	795.4	811.4	832.6	820.6	807.0
57.5°	729.9	746.1	762.3	750.1	738.4
60°	663.8	678.0	691.4	679.0	670.0
62.5°	596.7	608.9	620.4	608.5	600.1
65°	528.8	539.6	549.0	538.1	529.2
67.5°	461.3	470.4	479.2	467.8	458.5
70°	393.8	401.6	409.6	398.0	389.4
72.5°	327.2	334.1	341.2	329.9	322.4
75°	262.4	268.4	274.2	264.2	258.4
77.5°	200.5	205.6	209.7	203.3	197.6
80°	143.1	146.9	149.3	146.7	141.4
82.5°	92.0	94.7	96.0	95.8	92.3
85°	50.0	50.9	53.3	53.8	52.0
87.5°	19.3	20.6	21.2	22.8	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)