

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: P488591

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-20-120-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: P488591
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-LD4-2STD-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

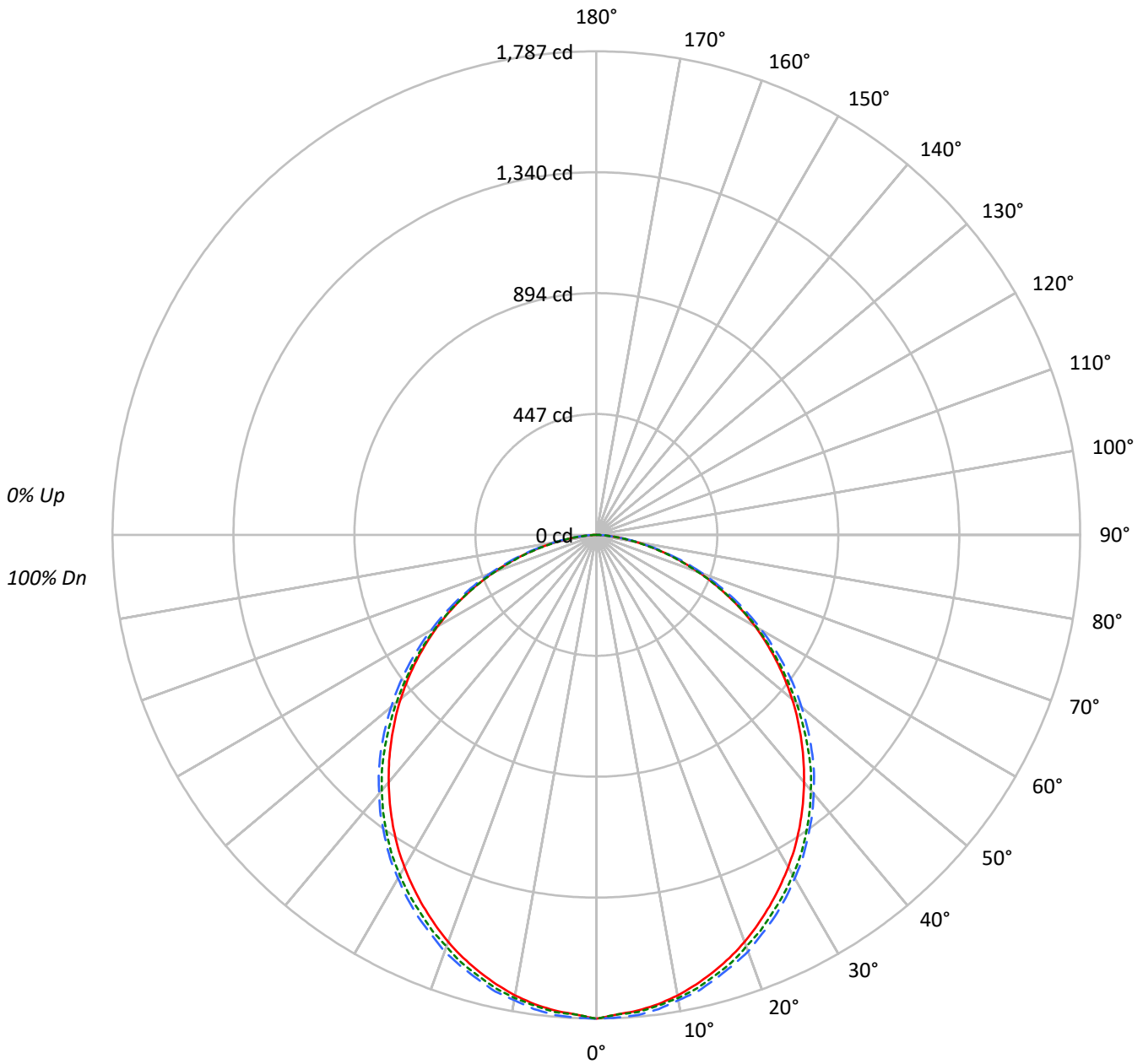
Lumens per Lamp: N/A
Luminaire Lumens: 4699.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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



— 0°-180° - - 45°-225° - - - 90°-270°

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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°	4810	4810	4810
5°	4766	4810	4781
10°	4722	4770	4747
15°	4656	4732	4698
20°	4583	4692	4635
25°	4494	4624	4571
30°	4403	4552	4511
35°	4304	4475	4433
40°	4192	4385	4330
45°	4074	4280	4199
50°	3952	4143	4034
55°	3809	3987	3864
60°	3646	3798	3680
65°	3436	3568	3439
70°	3162	3290	3127
75°	2784	2910	2742
80°	2263	2360	2236
85°	1575	1680	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.6
10°-20°	477.0	10.2
20°-30°	711.5	15.1
30°-40°	843.1	17.9
40°-50°	853.1	18.2
50°-60°	745.1	15.9
60°-70°	544.5	11.6
70°-80°	289.7	6.2
80°-90°	67.0	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°	1356.9	28.9
0°-40°	2200.0	46.8
0°-60°	3798.2	80.8
0°-90°	4699.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1764	1768	1781	1785	1770	167
15°	1671	1683	1698	1709	1686	471
25°	1514	1532	1558	1563	1540	697
35°	1310	1331	1362	1372	1349	819
45°	1071	1090	1125	1126	1103	826
55°	812	828	850	838	824	726
65°	540	551	560	549	540	534
75°	268	274	280	270	264	285
85°	51	52	54	55	53	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.4	1787.4	1787.4	1787.4	1787.4
2.5°	1773.5	1779.3	1785.2	1787.8	1773.3
5°	1764.2	1767.5	1780.7	1784.8	1769.8
7.5°	1748.9	1753.9	1766.8	1768.6	1754.1
10°	1728.0	1737.0	1745.5	1754.9	1737.2
12.5°	1701.4	1713.5	1728.0	1729.7	1716.3
15°	1671.4	1682.6	1698.4	1708.7	1686.5
17.5°	1637.9	1648.7	1669.2	1671.1	1657.6
20°	1600.5	1613.9	1638.5	1642.7	1618.7
22.5°	1558.0	1576.1	1596.6	1600.7	1583.0
25°	1513.5	1532.1	1557.5	1563.2	1539.6
27.5°	1466.9	1484.8	1513.3	1517.4	1497.5
30°	1417.0	1433.8	1465.1	1472.0	1451.7
32.5°	1366.4	1383.1	1417.8	1423.6	1403.8
35°	1310.1	1330.6	1362.1	1371.6	1349.4
37.5°	1252.8	1272.7	1308.5	1317.0	1293.2
40°	1193.4	1213.1	1248.3	1255.4	1232.5
42.5°	1132.7	1152.4	1190.0	1191.1	1172.1
45°	1070.6	1089.6	1124.6	1125.6	1103.4
47.5°	1007.7	1026.9	1058.2	1054.6	1033.8
50°	944.0	962.3	989.6	982.6	963.7
52.5°	878.1	895.8	921.7	910.1	892.4
55°	811.8	828.2	849.8	837.5	823.7
57.5°	744.9	761.5	778.1	765.6	753.7
60°	677.5	692.0	705.6	693.0	683.8
62.5°	609.0	621.5	633.2	621.1	612.5
65°	539.7	550.7	560.4	549.2	540.1
67.5°	470.8	480.1	489.0	477.5	468.0
70°	401.9	409.9	418.1	406.2	397.4
72.5°	333.9	341.0	348.3	336.7	329.1
75°	267.8	273.9	279.9	269.7	263.7
77.5°	204.7	209.9	214.0	207.5	201.7
80°	146.0	149.9	152.3	149.7	144.3
82.5°	93.9	96.7	98.0	97.8	94.2
85°	51.0	52.0	54.4	54.9	53.1
87.5°	19.7	21.0	21.6	23.3	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)