

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: P488587

Luminaire Tested: **CLM-12-4-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: P488587
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-LD4-2LO-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

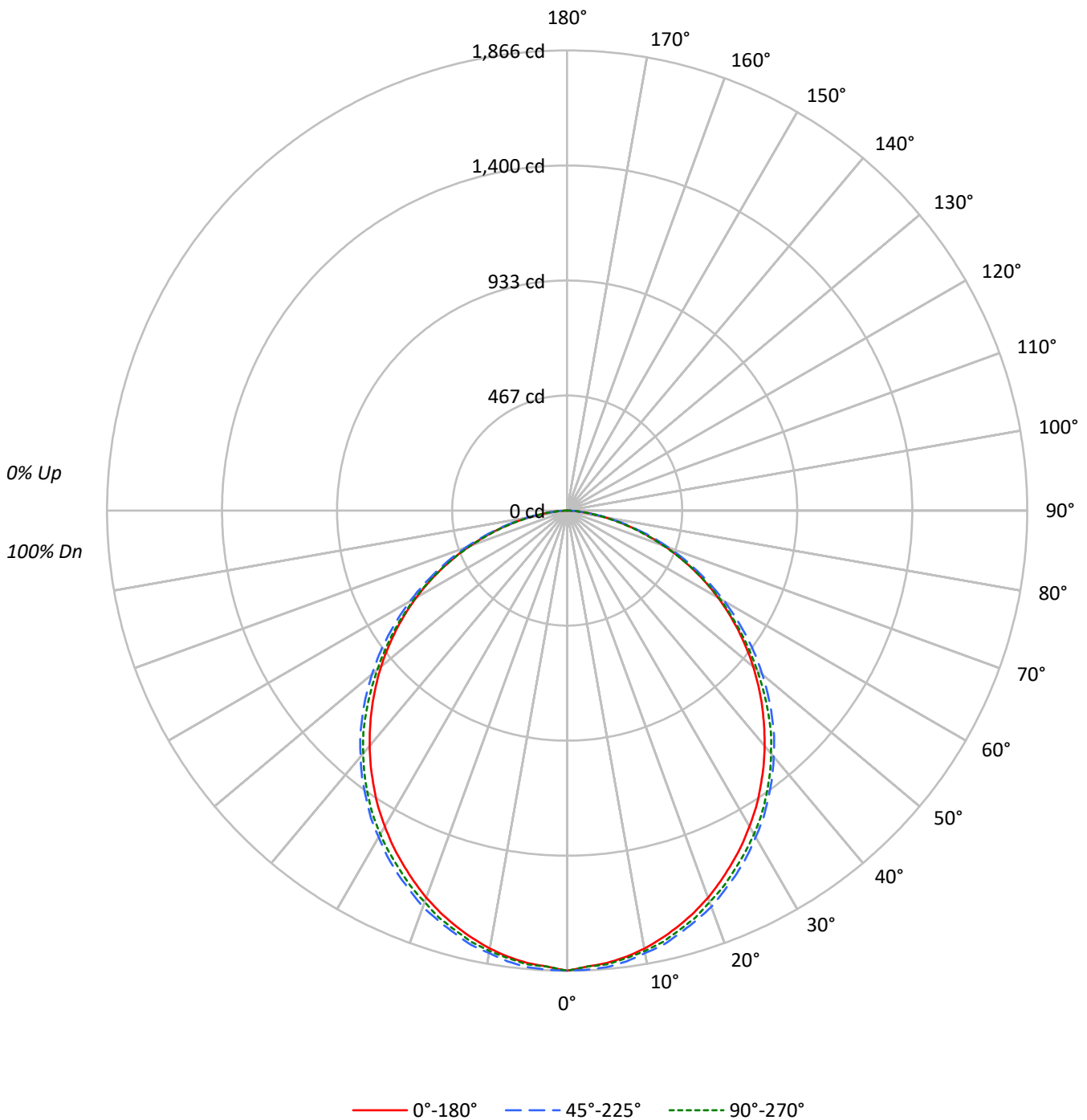
Lumens per Lamp: N/A
Luminaire Lumens: 4904.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5020	5020	5020
5°	4974	5021	4989
10°	4928	4978	4954
15°	4860	4939	4904
20°	4784	4897	4838
25°	4690	4827	4771
30°	4596	4751	4708
35°	4492	4670	4627
40°	4376	4577	4519
45°	4253	4467	4383
50°	4125	4324	4211
55°	3975	4161	4033
60°	3806	3964	3841
65°	3587	3724	3589
70°	3301	3434	3264
75°	2906	3037	2861
80°	2362	2464	2334
85°	1646	1754	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.6
10°-20°	497.9	10.2
20°-30°	742.6	15.1
30°-40°	880.0	17.9
40°-50°	890.4	18.2
50°-60°	777.6	15.9
60°-70°	568.3	11.6
70°-80°	302.4	6.2
80°-90°	69.9	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°	1416.2	28.9
0°-40°	2296.2	46.8
0°-60°	3964.3	80.8
0°-90°	4904.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4904.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1841	1845	1859	1863	1847	175
15°	1744	1756	1773	1783	1760	492
25°	1580	1599	1626	1632	1607	728
35°	1367	1389	1422	1432	1408	855
45°	1118	1137	1174	1175	1152	862
55°	847	864	887	874	860	757
65°	563	575	585	573	564	557
75°	280	286	292	282	275	297
85°	53	54	57	57	55	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1865.6	1865.6	1865.6	1865.6	1865.6
2.5°	1851.0	1857.1	1863.3	1866.0	1850.8
5°	1841.3	1844.8	1858.6	1862.9	1847.1
7.5°	1825.4	1830.6	1844.0	1846.0	1830.8
10°	1803.6	1812.9	1821.9	1831.6	1813.1
12.5°	1775.8	1788.4	1803.6	1805.4	1791.4
15°	1744.5	1756.2	1772.7	1783.4	1760.3
17.5°	1709.5	1720.8	1742.2	1744.1	1730.1
20°	1670.5	1684.5	1710.1	1714.6	1689.5
22.5°	1626.1	1645.0	1666.4	1670.7	1652.2
25°	1579.7	1599.1	1625.6	1631.6	1606.9
27.5°	1531.1	1549.8	1579.5	1583.8	1563.0
30°	1479.0	1496.5	1529.1	1536.3	1515.2
32.5°	1426.1	1443.6	1479.8	1485.8	1465.2
35°	1367.4	1388.8	1421.7	1431.6	1408.4
37.5°	1307.6	1328.4	1365.7	1374.6	1349.7
40°	1245.6	1266.2	1302.9	1310.3	1286.4
42.5°	1182.2	1202.8	1242.1	1243.2	1223.4
45°	1117.5	1137.3	1173.8	1174.8	1151.7
47.5°	1051.8	1071.8	1104.4	1100.7	1079.0
50°	985.3	1004.3	1032.9	1025.5	1005.9
52.5°	916.5	934.9	962.0	949.9	931.4
55°	847.3	864.4	886.9	874.1	859.7
57.5°	777.5	794.8	812.1	799.1	786.6
60°	707.1	722.3	736.5	723.3	713.7
62.5°	635.6	648.6	660.9	648.2	639.3
65°	563.3	574.8	584.9	573.2	563.7
67.5°	491.4	501.1	510.4	498.4	488.5
70°	419.5	427.8	436.4	423.9	414.8
72.5°	348.5	355.9	363.5	351.4	343.5
75°	279.5	285.9	292.1	281.5	275.2
77.5°	213.6	219.1	223.3	216.5	210.5
80°	152.4	156.5	159.0	156.3	150.6
82.5°	98.0	100.9	102.2	102.0	98.4
85°	53.3	54.2	56.8	57.3	55.4
87.5°	20.6	22.0	22.5	24.3	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)