

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: P488615

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488615
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-LD4-3LO-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

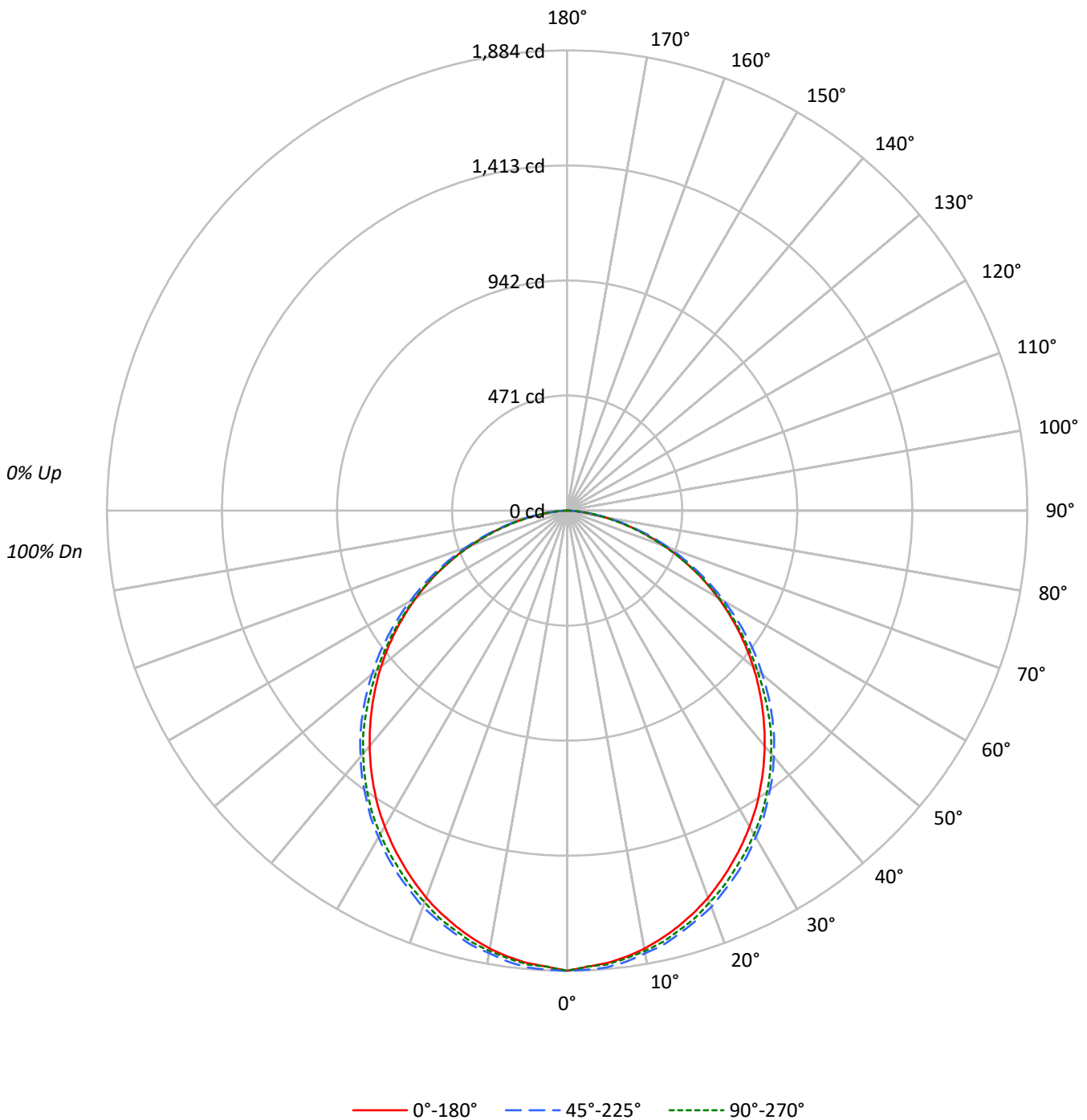
Lumens per Lamp: N/A
Luminaire Lumens: 4953.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	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°	5070	5070	5070
5°	5023	5070	5039
10°	4977	5028	5003
15°	4908	4987	4953
20°	4831	4946	4886
25°	4737	4874	4818
30°	4641	4799	4754
35°	4536	4716	4673
40°	4419	4622	4564
45°	4295	4511	4426
50°	4165	4367	4253
55°	4015	4202	4073
60°	3843	4003	3879
65°	3622	3761	3625
70°	3333	3467	3296
75°	2935	3067	2890
80°	2385	2489	2357
85°	1661	1769	1726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.6
10°-20°	502.8	10.2
20°-30°	749.9	15.1
30°-40°	888.7	17.9
40°-50°	899.2	18.2
50°-60°	785.3	15.9
60°-70°	573.9	11.6
70°-80°	305.4	6.2
80°-90°	70.6	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°	1430.2	28.9
0°-40°	2318.9	46.8
0°-60°	4003.5	80.8
0°-90°	4953.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1860	1863	1877	1881	1865	176
15°	1762	1774	1790	1801	1778	497
25°	1595	1615	1642	1648	1623	735
35°	1381	1402	1436	1446	1422	864
45°	1128	1148	1185	1186	1163	871
55°	856	873	896	883	868	765
65°	569	580	591	579	569	563
75°	282	289	295	284	278	300
85°	54	55	57	58	56	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.1	1884.1	1884.1	1884.1	1884.1
2.5°	1869.3	1875.4	1881.7	1884.5	1869.1
5°	1859.5	1863.1	1877.0	1881.3	1865.4
7.5°	1843.4	1848.7	1862.3	1864.2	1848.9
10°	1821.4	1830.9	1839.9	1849.7	1831.1
12.5°	1793.4	1806.1	1821.4	1823.2	1809.1
15°	1761.8	1773.5	1790.2	1801.0	1777.7
17.5°	1726.4	1737.8	1759.4	1761.4	1747.2
20°	1687.0	1701.1	1727.0	1731.5	1706.2
22.5°	1642.2	1661.3	1682.9	1687.2	1668.5
25°	1595.3	1614.9	1641.6	1647.7	1622.8
27.5°	1546.2	1565.1	1595.1	1599.4	1578.4
30°	1493.6	1511.3	1544.3	1551.5	1530.1
32.5°	1440.2	1457.9	1494.4	1500.5	1479.7
35°	1380.9	1402.5	1435.7	1445.7	1422.4
37.5°	1320.5	1341.5	1379.2	1388.2	1363.1
40°	1257.9	1278.7	1315.8	1323.2	1299.1
42.5°	1193.9	1214.7	1254.3	1255.5	1235.5
45°	1128.5	1148.5	1185.4	1186.4	1163.1
47.5°	1062.2	1082.4	1115.4	1111.6	1089.6
50°	995.0	1014.3	1043.1	1035.7	1015.8
52.5°	925.5	944.2	971.5	959.3	940.7
55°	855.7	872.9	895.7	882.7	868.2
57.5°	785.2	802.7	820.1	807.0	794.4
60°	714.1	729.4	743.8	730.4	720.8
62.5°	641.9	655.0	667.4	654.7	645.6
65°	568.9	580.5	590.7	578.9	569.3
67.5°	496.2	506.1	515.5	503.3	493.3
70°	423.6	432.0	440.7	428.1	418.9
72.5°	352.0	359.4	367.1	354.9	346.9
75°	282.3	288.8	295.0	284.2	278.0
77.5°	215.7	221.2	225.5	218.7	212.6
80°	153.9	158.0	160.6	157.8	152.1
82.5°	98.9	101.9	103.3	103.1	99.3
85°	53.8	54.8	57.3	57.9	55.9
87.5°	20.8	22.2	22.8	24.5	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)