

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: P488595

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-30-120-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: P488595
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-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

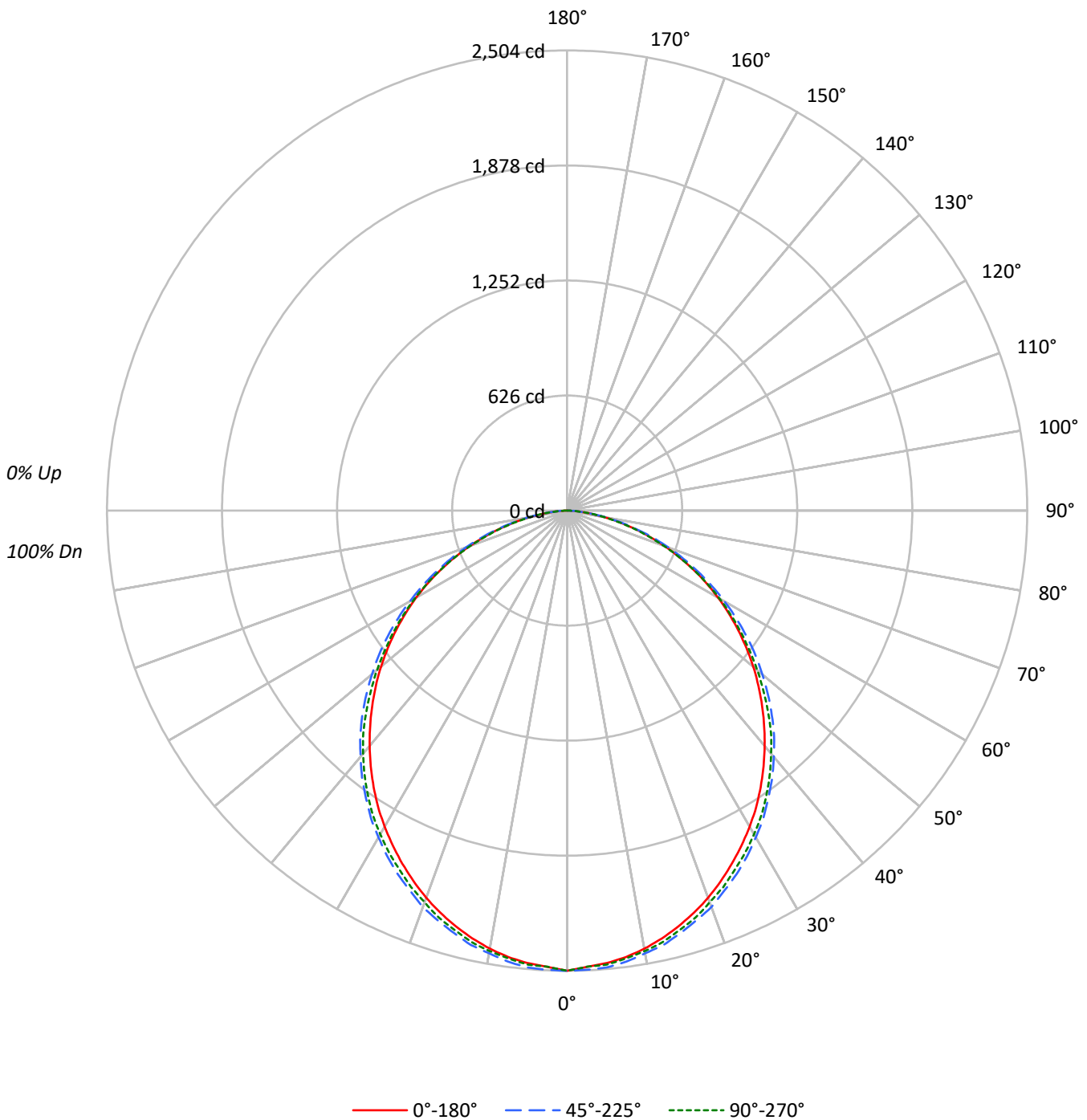
Lumens per Lamp: N/A
Luminaire Lumens: 6584.3 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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





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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°	6739	6739	6739
5°	6677	6740	6698
10°	6616	6683	6651
15°	6524	6630	6583
20°	6422	6574	6495
25°	6296	6479	6405
30°	6169	6379	6320
35°	6030	6270	6211
40°	5874	6144	6066
45°	5709	5997	5883
50°	5537	5805	5653
55°	5336	5586	5415
60°	5109	5321	5156
65°	4815	4999	4818
70°	4430	4609	4381
75°	3901	4078	3842
80°	3171	3307	3133
85°	2208	2353	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	3.6
10°-20°	668.4	10.2
20°-30°	996.9	15.1
30°-40°	1181.3	17.9
40°-50°	1195.3	18.2
50°-60°	1043.9	15.9
60°-70°	762.9	11.6
70°-80°	405.9	6.2
80°-90°	93.8	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°	1901.2	28.9
0°-40°	3082.5	46.8
0°-60°	5321.7	80.8
0°-90°	6584.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6584.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2504	2504	2504	2504	2504	
5°	2472	2476	2495	2501	2480	234
15°	2342	2358	2380	2394	2363	660
25°	2121	2147	2182	2190	2157	977
35°	1836	1864	1908	1922	1891	1148
45°	1500	1527	1576	1577	1546	1157
55°	1137	1160	1191	1173	1154	1017
65°	756	772	785	770	757	748
75°	375	384	392	378	370	399
85°	72	73	76	77	74	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2504.4	2504.4	2504.4	2504.4	2504.4
2.5°	2484.9	2493.0	2501.3	2505.0	2484.6
5°	2471.8	2476.5	2495.0	2500.8	2479.6
7.5°	2450.4	2457.5	2475.5	2478.1	2457.7
10°	2421.2	2433.7	2445.7	2458.8	2434.0
12.5°	2383.9	2400.8	2421.2	2423.5	2404.8
15°	2341.9	2357.5	2379.7	2394.1	2363.0
17.5°	2294.9	2310.0	2338.7	2341.4	2322.6
20°	2242.5	2261.2	2295.7	2301.7	2268.0
22.5°	2183.0	2208.3	2237.0	2242.7	2217.9
25°	2120.6	2146.7	2182.2	2190.3	2157.1
27.5°	2055.4	2080.4	2120.3	2126.1	2098.2
30°	1985.4	2008.9	2052.8	2062.4	2034.0
32.5°	1914.5	1937.9	1986.5	1994.6	1966.9
35°	1835.7	1864.4	1908.5	1921.8	1890.7
37.5°	1755.3	1783.2	1833.3	1845.3	1811.9
40°	1672.1	1699.7	1749.0	1758.9	1726.9
42.5°	1587.0	1614.7	1667.4	1668.9	1642.3
45°	1500.1	1526.7	1575.8	1577.1	1546.0
47.5°	1411.9	1438.8	1482.6	1477.7	1448.4
50°	1322.7	1348.2	1386.6	1376.7	1350.3
52.5°	1230.3	1255.1	1291.4	1275.2	1250.4
55°	1137.4	1160.4	1190.6	1173.4	1154.1
57.5°	1043.7	1067.0	1090.2	1072.7	1056.0
60°	949.3	969.6	988.7	970.9	958.1
62.5°	853.3	870.7	887.2	870.2	858.2
65°	756.2	771.6	785.1	769.5	756.7
67.5°	659.6	672.7	685.2	669.0	655.7
70°	563.1	574.3	585.8	569.1	556.8
72.5°	467.9	477.8	487.9	471.8	461.1
75°	375.2	383.8	392.2	377.8	369.5
77.5°	286.8	294.1	299.8	290.7	282.6
80°	204.6	210.1	213.4	209.8	202.2
82.5°	131.5	135.4	137.3	137.0	132.0
85°	71.5	72.8	76.2	77.0	74.4
87.5°	27.7	29.5	30.3	32.6	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)