

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: P489439

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-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: P489439
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-24-4-INS-A12125-LD4-2HI-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

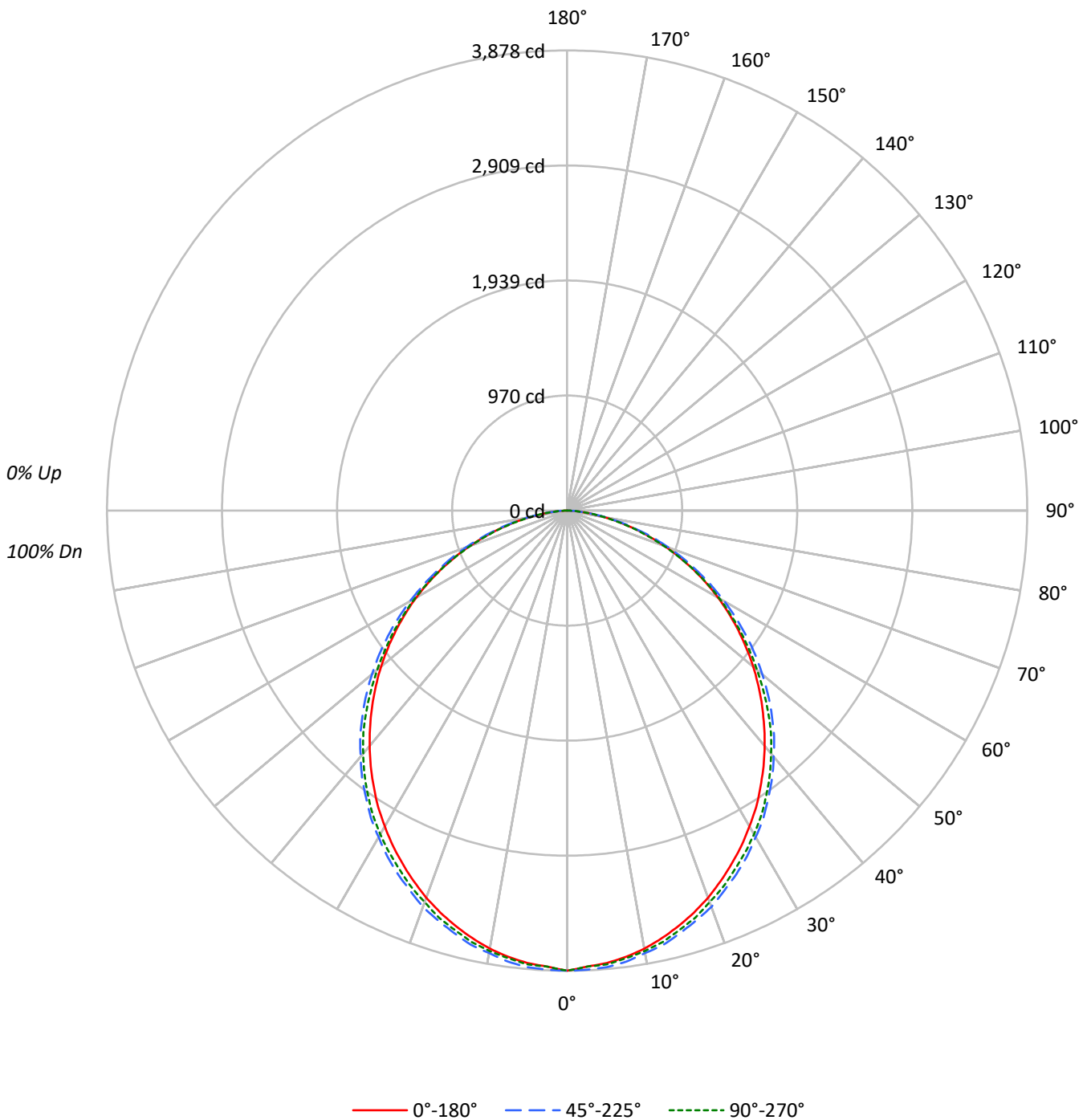
Lumens per Lamp: N/A
Luminaire Lumens: 10194.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	5217	5217	5217
5°	5169	5217	5185
10°	5122	5173	5149
15°	5051	5132	5096
20°	4971	5089	5028
25°	4874	5016	4958
30°	4776	4938	4893
35°	4668	4853	4808
40°	4547	4756	4696
45°	4419	4642	4555
50°	4286	4494	4376
55°	4131	4324	4191
60°	3955	4119	3992
65°	3727	3870	3730
70°	3430	3568	3391
75°	3020	3157	2974
80°	2454	2561	2426
85°	1709	1822	1777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	3.6
10°-20°	1034.8	10.2
20°-30°	1543.4	15.1
30°-40°	1829.0	17.9
40°-50°	1850.6	18.2
50°-60°	1616.3	15.9
60°-70°	1181.1	11.6
70°-80°	628.4	6.2
80°-90°	145.3	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°	2943.5	28.9
0°-40°	4772.4	46.8
0°-60°	8239.3	80.8
0°-90°	10194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10194.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3878	3878	3878	3878	3878	
5°	3827	3834	3863	3872	3839	363
15°	3626	3650	3684	3707	3658	1022
25°	3283	3324	3378	3391	3340	1513
35°	2842	2886	2955	2975	2927	1777
45°	2322	2364	2440	2442	2394	1792
55°	1761	1796	1843	1817	1787	1574
65°	1171	1195	1216	1191	1172	1159
75°	581	594	607	585	572	618
85°	111	113	118	119	115	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3877.5	3877.5	3877.5	3877.5	3877.5
2.5°	3847.2	3859.7	3872.6	3878.3	3846.8
5°	3827.0	3834.2	3862.9	3871.8	3839.1
7.5°	3793.8	3804.8	3832.6	3836.7	3805.2
10°	3748.6	3768.0	3786.6	3806.8	3768.4
12.5°	3690.8	3717.1	3748.6	3752.2	3723.1
15°	3625.8	3650.0	3684.4	3706.6	3658.5
17.5°	3553.1	3576.5	3620.9	3625.0	3595.9
20°	3471.9	3501.0	3554.3	3563.6	3511.5
22.5°	3379.8	3418.9	3463.4	3472.3	3433.9
25°	3283.2	3323.6	3378.5	3391.1	3339.8
27.5°	3182.2	3221.0	3282.8	3291.7	3248.5
30°	3073.9	3110.3	3178.2	3193.1	3149.1
32.5°	2964.1	3000.4	3075.6	3088.1	3045.3
35°	2842.1	2886.5	2954.8	2975.4	2927.3
37.5°	2717.6	2760.9	2838.4	2857.0	2805.3
40°	2588.8	2631.6	2707.9	2723.3	2673.6
42.5°	2457.1	2499.9	2581.5	2583.9	2542.7
45°	2322.5	2363.7	2439.7	2441.7	2393.6
47.5°	2186.0	2227.6	2295.5	2287.8	2242.5
50°	2047.8	2087.4	2146.8	2131.4	2090.6
52.5°	1904.8	1943.2	1999.3	1974.3	1935.9
55°	1761.0	1796.5	1843.4	1816.7	1786.8
57.5°	1616.0	1651.9	1687.9	1660.8	1634.9
60°	1469.7	1501.2	1530.7	1503.2	1483.4
62.5°	1321.0	1348.1	1373.6	1347.3	1328.7
65°	1170.8	1194.6	1215.6	1191.4	1171.6
67.5°	1021.3	1041.5	1060.9	1035.8	1015.2
70°	871.8	889.2	907.0	881.1	862.1
72.5°	724.3	739.7	755.5	730.4	713.8
75°	580.9	594.3	607.2	585.0	572.0
77.5°	444.0	455.3	464.2	450.0	437.5
80°	316.7	325.2	330.5	324.8	313.1
82.5°	203.6	209.7	212.5	212.1	204.4
85°	110.7	112.7	118.0	119.2	115.1
87.5°	42.8	45.7	46.9	50.5	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)