

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: P489434

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-30-120-EDD-90**

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: P489434
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-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

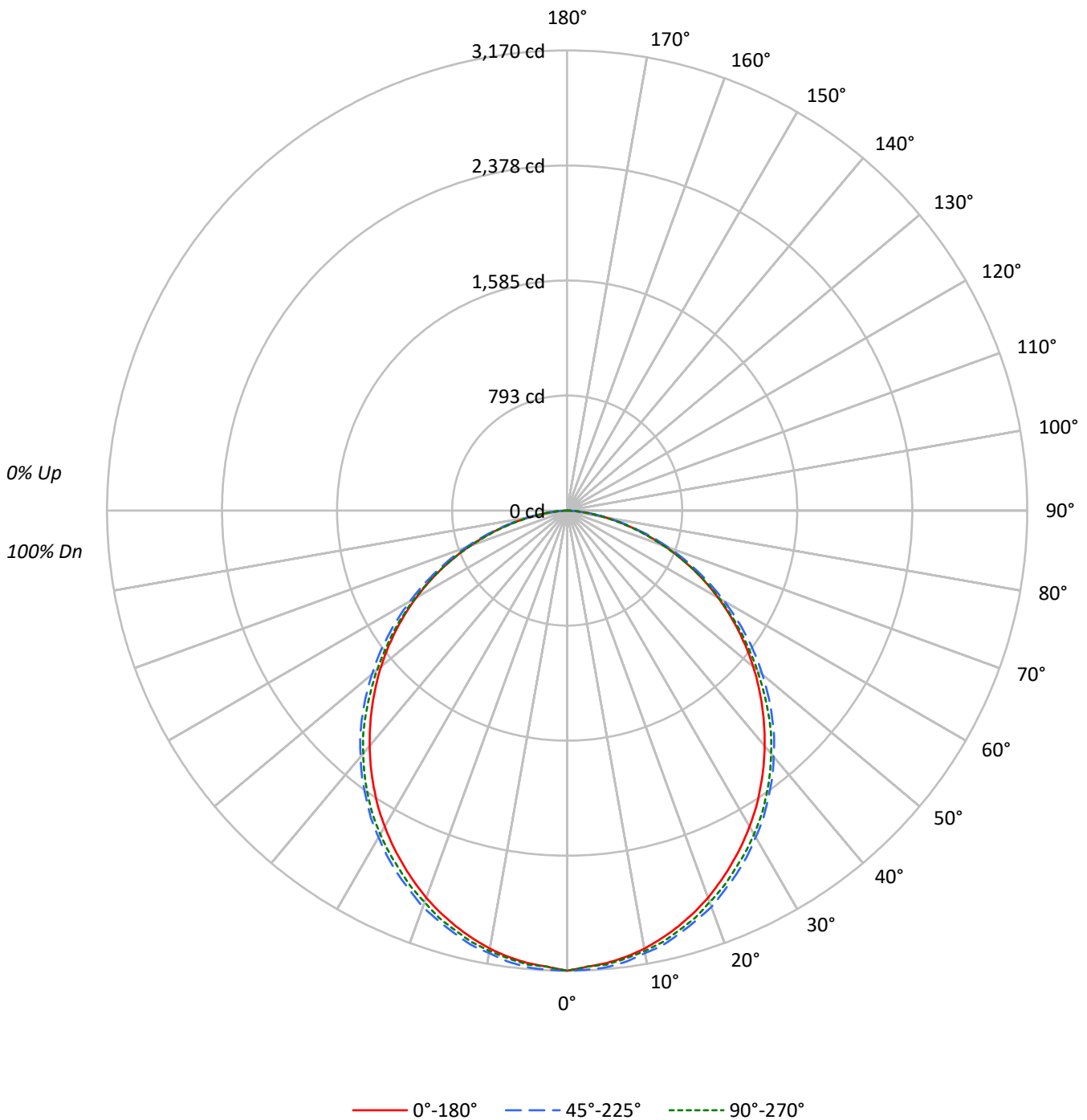
Lumens per Lamp: N/A
Luminaire Lumens: 8334.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4265	4265	4265
5°	4226	4265	4239
10°	4187	4229	4209
15°	4129	4196	4166
20°	4064	4161	4111
25°	3985	4101	4054
30°	3904	4037	4000
35°	3816	3968	3931
40°	3717	3888	3839
45°	3613	3795	3724
50°	3504	3674	3578
55°	3377	3535	3427
60°	3233	3367	3264
65°	3047	3164	3049
70°	2804	2917	2773
75°	2469	2581	2431
80°	2006	2094	1984
85°	1397	1488	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	3.6
10°-20°	846.0	10.2
20°-30°	1261.8	15.1
30°-40°	1495.3	17.9
40°-50°	1513.0	18.2
50°-60°	1321.4	15.9
60°-70°	965.6	11.6
70°-80°	513.8	6.2
80°-90°	118.7	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°	2406.4	28.9
0°-40°	3901.6	46.8
0°-60°	6736.0	80.8
0°-90°	8334.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8334.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3170	3170	3170	3170	3170	
5°	3129	3135	3158	3165	3139	297
15°	2964	2984	3012	3030	2991	836
25°	2684	2717	2762	2772	2730	1237
35°	2324	2360	2416	2432	2393	1453
45°	1899	1932	1994	1996	1957	1465
55°	1440	1469	1507	1485	1461	1287
65°	957	977	994	974	958	947
75°	475	486	496	478	468	505
85°	90	92	96	97	94	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3170.0	3170.0	3170.0	3170.0	3170.0
2.5°	3145.2	3155.5	3166.0	3170.7	3144.9
5°	3128.7	3134.7	3158.1	3165.4	3138.6
7.5°	3101.6	3110.5	3133.3	3136.6	3110.9
10°	3064.6	3080.5	3095.7	3112.2	3080.8
12.5°	3017.4	3038.9	3064.6	3067.6	3043.8
15°	2964.2	2984.0	3012.1	3030.3	2991.0
17.5°	2904.8	2923.9	2960.3	2963.6	2939.8
20°	2838.4	2862.2	2905.8	2913.4	2870.8
22.5°	2763.1	2795.1	2831.5	2838.7	2807.4
25°	2684.2	2717.2	2762.1	2772.3	2730.4
27.5°	2601.6	2633.3	2683.8	2691.1	2655.8
30°	2513.1	2542.8	2598.3	2610.5	2574.5
32.5°	2423.2	2453.0	2514.4	2524.6	2489.6
35°	2323.5	2359.8	2415.6	2432.5	2393.2
37.5°	2221.8	2257.1	2320.5	2335.7	2293.4
40°	2116.4	2151.4	2213.8	2226.4	2185.8
42.5°	2008.7	2043.8	2110.5	2112.4	2078.8
45°	1898.8	1932.4	1994.5	1996.2	1956.9
47.5°	1787.1	1821.1	1876.6	1870.4	1833.4
50°	1674.2	1706.5	1755.1	1742.5	1709.2
52.5°	1557.3	1588.6	1634.5	1614.1	1582.7
55°	1439.7	1468.7	1507.1	1485.3	1460.8
57.5°	1321.1	1350.5	1379.9	1357.8	1336.6
60°	1201.5	1227.3	1251.4	1229.0	1212.8
62.5°	1080.0	1102.1	1122.9	1101.5	1086.3
65°	957.1	976.6	993.8	974.0	957.8
67.5°	834.9	851.5	867.3	846.8	830.0
70°	712.7	726.9	741.5	720.3	704.8
72.5°	592.2	604.7	617.6	597.1	583.6
75°	474.9	485.8	496.4	478.2	467.7
77.5°	363.0	372.2	379.5	367.9	357.7
80°	258.9	265.9	270.2	265.5	256.0
82.5°	166.5	171.4	173.7	173.4	167.1
85°	90.5	92.1	96.4	97.4	94.1
87.5°	35.0	37.3	38.3	41.3	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)