

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: P488966

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-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: P488966
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-24-2-INS-A12125-LD4-4HI-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

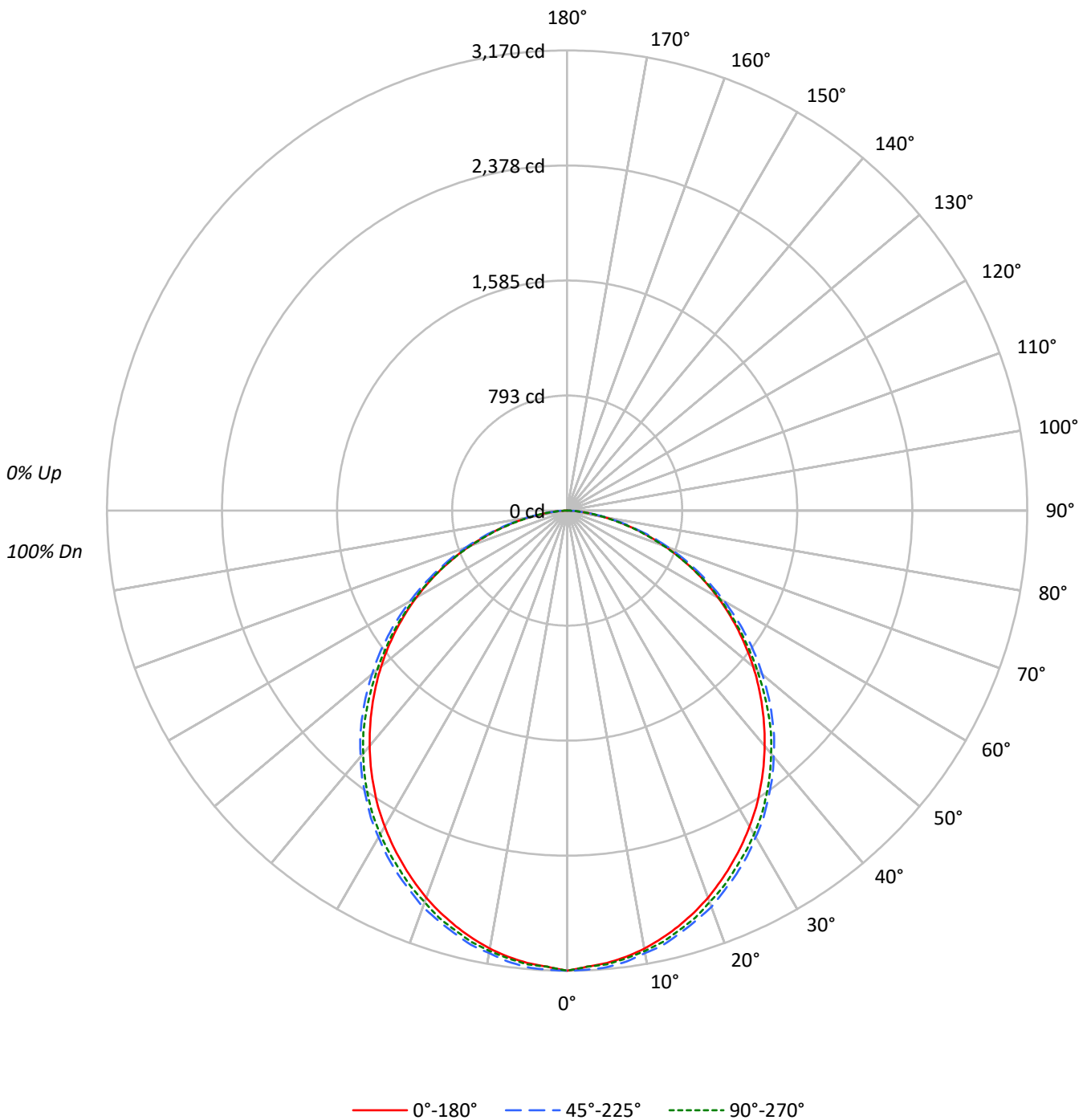
Lumens per Lamp: N/A
Luminaire Lumens: 8333.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	8530	8530	8530
5°	8451	8531	8478
10°	8374	8459	8418
15°	8258	8391	8332
20°	8128	8321	8221
25°	7970	8201	8107
30°	7809	8073	7999
35°	7633	7935	7862
40°	7434	7777	7678
45°	7226	7590	7447
50°	7008	7347	7155
55°	6754	7070	6853
60°	6466	6735	6527
65°	6094	6328	6099
70°	5607	5833	5545
75°	4938	5161	4863
80°	4012	4187	3967
85°	2794	2976	2905



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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°	1495.2	17.9
40°-50°	1512.9	18.2
50°-60°	1321.3	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°	2406.3	28.9
0°-40°	3901.5	46.8
0°-60°	6735.8	80.8
0°-90°	8333.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8333.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3170	3170	3170	3170	3170	
5°	3129	3134	3158	3165	3138	297
15°	2964	2984	3012	3030	2991	836
25°	2684	2717	2762	2772	2730	1237
35°	2323	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°	3169.9	3169.9	3169.9	3169.9	3169.9
2.5°	3145.1	3155.3	3165.9	3170.5	3144.8
5°	3128.6	3134.5	3158.0	3165.3	3138.5
7.5°	3101.5	3110.4	3133.2	3136.5	3110.8
10°	3064.5	3080.4	3095.6	3112.1	3080.7
12.5°	3017.3	3038.8	3064.5	3067.5	3043.7
15°	2964.1	2983.9	3012.0	3030.2	2990.9
17.5°	2904.7	2923.8	2960.2	2963.5	2939.7
20°	2838.3	2862.1	2905.7	2913.3	2870.7
22.5°	2763.0	2795.0	2831.4	2838.6	2807.3
25°	2684.1	2717.1	2762.0	2772.2	2730.3
27.5°	2601.5	2633.2	2683.7	2691.0	2655.7
30°	2513.0	2542.7	2598.2	2610.4	2574.4
32.5°	2423.2	2452.9	2514.3	2524.5	2489.5
35°	2323.4	2359.7	2415.6	2432.4	2393.1
37.5°	2221.7	2257.0	2320.4	2335.6	2293.4
40°	2116.3	2151.3	2213.8	2226.3	2185.7
42.5°	2008.7	2043.7	2110.4	2112.4	2078.7
45°	1898.7	1932.4	1994.5	1996.1	1956.8
47.5°	1787.1	1821.1	1876.6	1870.3	1833.3
50°	1674.1	1706.5	1755.0	1742.5	1709.1
52.5°	1557.2	1588.6	1634.5	1614.0	1582.6
55°	1439.6	1468.7	1507.0	1485.2	1460.8
57.5°	1321.1	1350.5	1379.8	1357.7	1336.6
60°	1201.5	1227.3	1251.4	1228.9	1212.7
62.5°	1080.0	1102.1	1122.9	1101.4	1086.2
65°	957.1	976.6	993.8	974.0	957.8
67.5°	834.9	851.4	867.3	846.8	830.0
70°	712.7	726.9	741.4	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)