

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: P489476

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-50-120-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: P489476
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-LD4-3HI-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

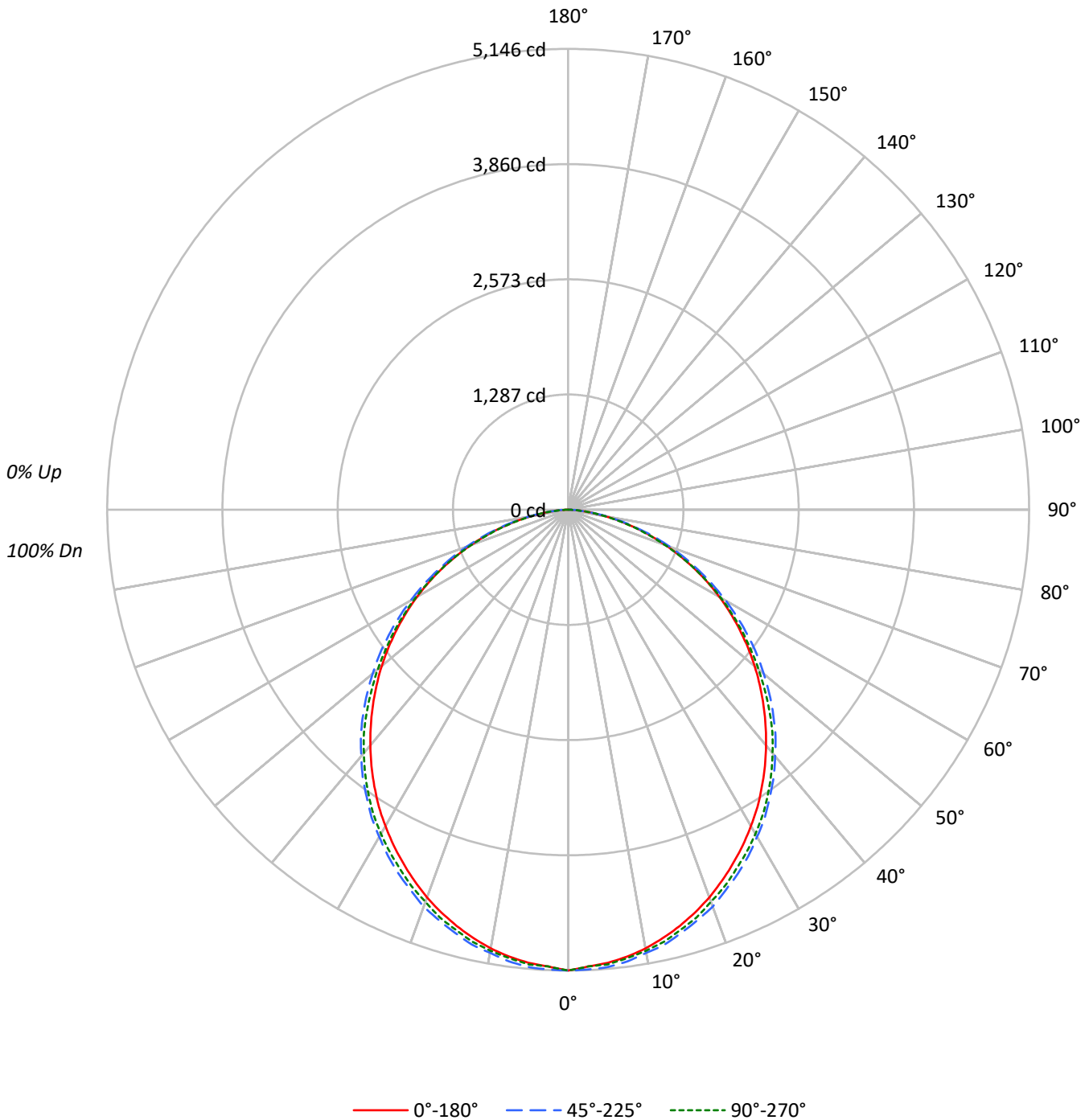
Lumens per Lamp: N/A
Luminaire Lumens: 13529.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	6924	6924	6924
5°	6860	6924	6882
10°	6797	6866	6833
15°	6703	6811	6763
20°	6597	6754	6673
25°	6469	6657	6580
30°	6338	6553	6493
35°	6195	6441	6381
40°	6035	6312	6232
45°	5865	6161	6045
50°	5689	5964	5808
55°	5482	5739	5563
60°	5249	5467	5298
65°	4947	5136	4950
70°	4552	4735	4501
75°	4008	4189	3947
80°	3257	3398	3219
85°	2268	2418	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	3.6
10°-20°	1373.4	10.2
20°-30°	2048.4	15.1
30°-40°	2427.3	17.9
40°-50°	2456.1	18.2
50°-60°	2145.0	15.9
60°-70°	1567.5	11.6
70°-80°	834.0	6.2
80°-90°	192.8	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°	3906.4	28.9
0°-40°	6333.7	46.8
0°-60°	10934.8	80.8
0°-90°	13529.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13529.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5146	5146	5146	5146	5146	
5°	5079	5089	5127	5138	5095	482
15°	4812	4844	4890	4919	4855	1357
25°	4357	4411	4484	4500	4432	2007
35°	3772	3831	3921	3949	3885	2359
45°	3082	3137	3238	3240	3177	2378
55°	2337	2384	2446	2411	2371	2089
65°	1554	1585	1613	1581	1555	1538
75°	771	789	806	776	759	820
85°	147	150	157	158	153	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5146.0	5146.0	5146.0	5146.0	5146.0
2.5°	5105.8	5122.4	5139.6	5147.1	5105.2
5°	5079.0	5088.6	5126.7	5138.5	5095.1
7.5°	5035.0	5049.5	5086.5	5091.8	5050.0
10°	4975.0	5000.7	5025.4	5052.2	5001.2
12.5°	4898.3	4933.1	4975.0	4979.8	4941.2
15°	4812.0	4844.1	4889.7	4919.2	4855.4
17.5°	4715.5	4746.6	4805.5	4810.9	4772.3
20°	4607.7	4646.3	4717.1	4729.4	4660.2
22.5°	4485.4	4537.5	4596.4	4608.2	4557.3
25°	4357.3	4410.9	4483.8	4500.5	4432.4
27.5°	4223.3	4274.7	4356.8	4368.6	4311.2
30°	4079.6	4127.8	4217.9	4237.7	4179.3
32.5°	3933.7	3982.0	4081.7	4098.3	4041.5
35°	3771.8	3830.8	3921.4	3948.8	3885.0
37.5°	3606.7	3664.1	3767.0	3791.7	3723.0
40°	3435.7	3492.5	3593.8	3614.2	3548.3
42.5°	3260.9	3317.7	3426.0	3429.2	3374.5
45°	3082.3	3137.0	3237.8	3240.5	3176.7
47.5°	2901.1	2956.3	3046.4	3036.2	2976.2
50°	2717.8	2770.3	2849.1	2828.7	2774.6
52.5°	2528.0	2578.9	2653.4	2620.2	2569.2
55°	2337.1	2384.3	2446.5	2411.1	2371.4
57.5°	2144.6	2192.3	2240.0	2204.1	2169.8
60°	1950.5	1992.3	2031.5	1995.0	1968.8
62.5°	1753.2	1789.1	1822.9	1788.1	1763.4
65°	1553.8	1585.4	1613.3	1581.1	1554.8
67.5°	1355.4	1382.2	1407.9	1374.7	1347.4
70°	1157.0	1180.1	1203.7	1169.3	1144.1
72.5°	961.3	981.7	1002.6	969.4	947.4
75°	771.0	788.7	805.8	776.3	759.2
77.5°	589.2	604.2	616.0	597.3	580.7
80°	420.3	431.6	438.6	431.1	415.5
82.5°	270.2	278.3	282.0	281.5	271.3
85°	146.9	149.6	156.6	158.2	152.8
87.5°	56.8	60.6	62.2	67.0	61.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)