

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: P489477

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-50-120-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: P489477
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
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

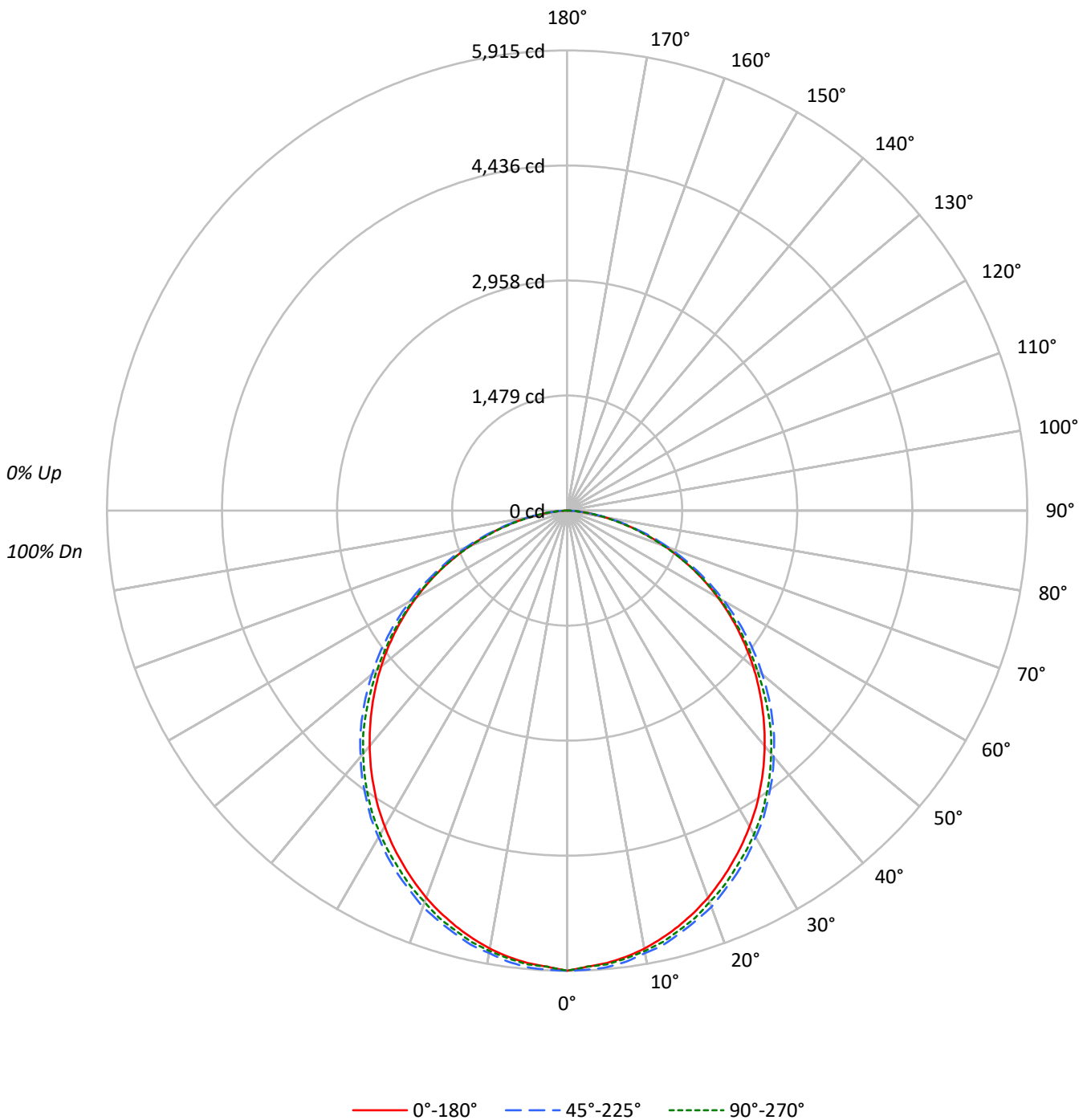
Lumens per Lamp: N/A
Luminaire Lumens: 15550.6 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7958	7958	7958
5°	7885	7959	7910
10°	7813	7892	7854
15°	7704	7829	7774
20°	7583	7763	7670
25°	7435	7651	7563
30°	7285	7532	7463
35°	7121	7403	7335
40°	6936	7255	7163
45°	6741	7081	6948
50°	6539	6855	6676
55°	6301	6596	6394
60°	6033	6283	6089
65°	5686	5904	5690
70°	5232	5443	5174
75°	4607	4815	4536
80°	3744	3906	3701
85°	2607	2777	2711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.1	3.6
10°-20°	1578.6	10.2
20°-30°	2354.4	15.1
30°-40°	2790.0	17.9
40°-50°	2823.1	18.2
50°-60°	2465.5	15.9
60°-70°	1801.7	11.6
70°-80°	958.6	6.2
80°-90°	221.6	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°	4490.1	28.9
0°-40°	7280.1	46.8
0°-60°	12568.7	80.8
0°-90°	15550.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15550.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5915	5915	5915	5915	5915	
5°	5838	5849	5893	5906	5856	554
15°	5531	5568	5620	5654	5581	1559
25°	5008	5070	5154	5173	5095	2307
35°	4335	4403	4507	4539	4465	2711
45°	3543	3606	3722	3725	3651	2733
55°	2686	2740	2812	2771	2726	2401
65°	1786	1822	1854	1817	1787	1767
75°	886	906	926	892	873	942
85°	169	172	180	182	176	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5914.9	5914.9	5914.9	5914.9	5914.9
2.5°	5868.7	5887.8	5907.5	5916.1	5868.1
5°	5837.9	5849.0	5892.7	5906.3	5856.3
7.5°	5787.3	5804.0	5846.5	5852.7	5804.6
10°	5718.3	5747.9	5776.2	5807.0	5748.5
12.5°	5630.2	5670.2	5718.3	5723.9	5679.5
15°	5531.0	5567.9	5620.3	5654.2	5580.9
17.5°	5420.0	5455.8	5523.6	5529.7	5485.4
20°	5296.2	5340.5	5421.9	5436.1	5356.6
22.5°	5155.7	5215.4	5283.2	5296.8	5238.2
25°	5008.4	5070.0	5153.8	5172.9	5094.6
27.5°	4854.3	4913.5	5007.8	5021.3	4955.4
30°	4689.1	4744.6	4848.1	4870.9	4803.8
32.5°	4521.5	4577.0	4691.6	4710.7	4645.4
35°	4335.4	4403.2	4507.3	4538.8	4465.4
37.5°	4145.6	4211.5	4329.9	4358.2	4279.3
40°	3949.0	4014.3	4130.8	4154.2	4078.4
42.5°	3748.1	3813.4	3937.9	3941.6	3878.8
45°	3542.9	3605.8	3721.6	3724.7	3651.4
47.5°	3334.6	3398.1	3501.6	3489.9	3420.9
50°	3123.8	3184.2	3274.8	3251.4	3189.2
52.5°	2905.7	2964.2	3049.9	3011.7	2953.1
55°	2686.3	2740.5	2812.0	2771.3	2725.7
57.5°	2465.1	2519.9	2574.7	2533.5	2494.0
60°	2242.0	2290.0	2335.0	2293.1	2262.9
62.5°	2015.2	2056.5	2095.3	2055.2	2026.9
65°	1785.9	1822.3	1854.3	1817.4	1787.2
67.5°	1557.9	1588.7	1618.3	1580.1	1548.7
70°	1329.9	1356.4	1383.5	1344.1	1315.1
72.5°	1105.0	1128.4	1152.4	1114.2	1088.9
75°	886.2	906.5	926.2	892.3	872.6
77.5°	677.3	694.5	708.1	686.5	667.4
80°	483.2	496.1	504.1	495.5	477.6
82.5°	310.6	319.8	324.2	323.5	311.8
85°	168.9	171.9	179.9	181.8	175.6
87.5°	65.3	69.6	71.5	77.0	70.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)