

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: P489545

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-35-120-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: P489545
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-LD4-5HI-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

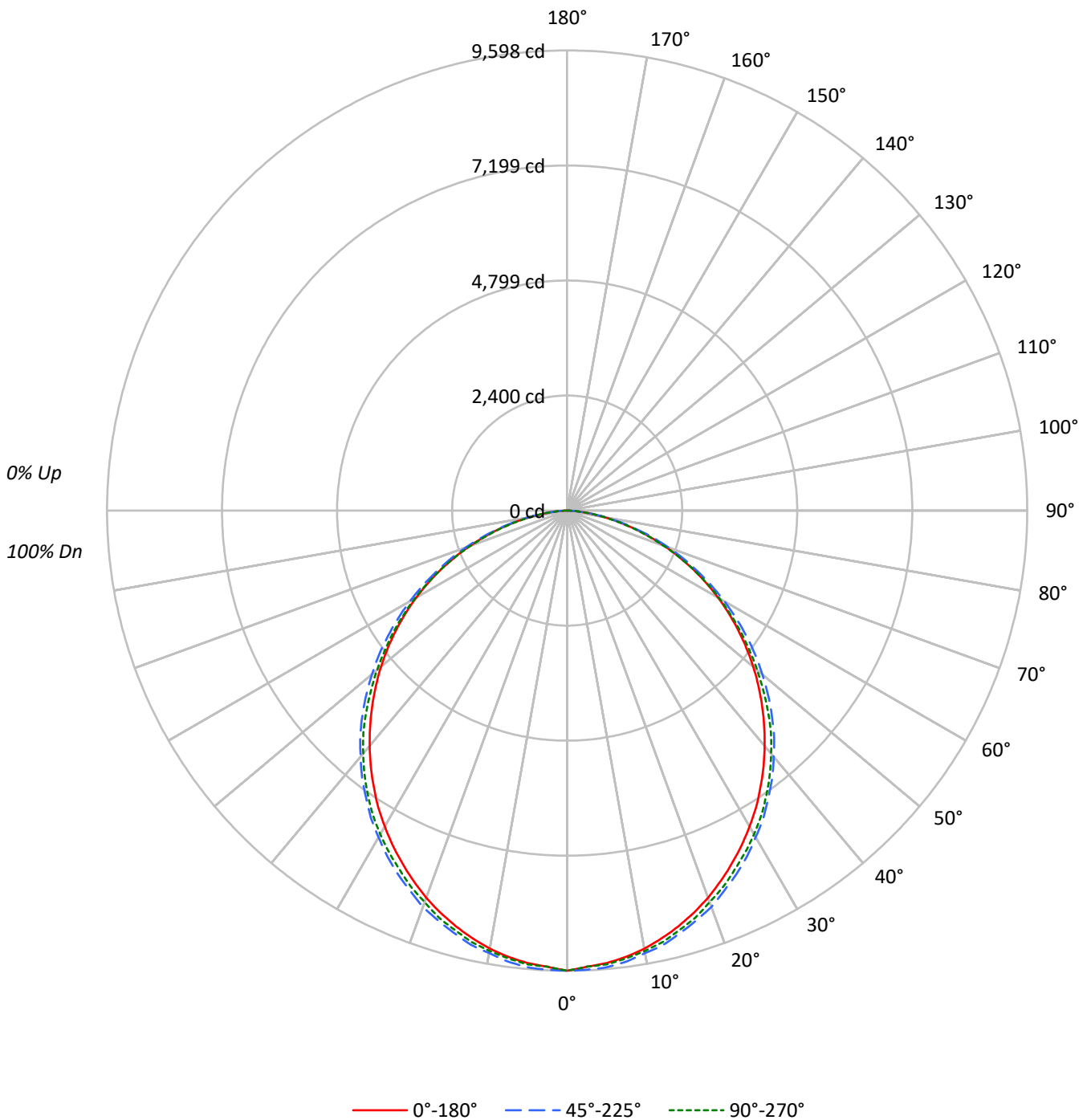
Lumens per Lamp: N/A
Luminaire Lumens: 25233.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 216
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°	12914	12914	12914
5°	12794	12914	12835
10°	12677	12805	12744
15°	12501	12703	12614
20°	12305	12597	12445
25°	12065	12415	12273
30°	11821	12222	12110
35°	11555	12013	11902
40°	11255	11773	11624
45°	10939	11491	11274
50°	10610	11123	10832
55°	10225	10704	10375
60°	9790	10196	9881
65°	9226	9579	9232
70°	8489	8831	8395
75°	7476	7813	7361
80°	6075	6338	6005
85°	4230	4508	4400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.9	3.6
10°-20°	2561.5	10.2
20°-30°	3820.4	15.1
30°-40°	4527.2	17.9
40°-50°	4580.8	18.2
50°-60°	4000.7	15.9
60°-70°	2923.5	11.6
70°-80°	1555.6	6.2
80°-90°	359.5	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
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0°-30°	7285.8	28.9
0°-40°	11813.0	46.8
0°-60°	20394.4	80.8
0°-90°	25233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9598	9598	9598	9598	9598	
5°	9473	9491	9562	9584	9503	898
15°	8975	9035	9120	9175	9056	2530
25°	8127	8227	8363	8394	8267	3744
35°	7035	7145	7314	7365	7246	4399
45°	5749	5851	6039	6044	5925	4435
55°	4359	4447	4563	4497	4423	3896
65°	2898	2957	3009	2949	2900	2868
75°	1438	1471	1503	1448	1416	1529
85°	274	279	292	295	285	347
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9597.7	9597.7	9597.7	9597.7	9597.7
2.5°	9522.7	9553.7	9585.7	9599.7	9521.7
5°	9472.7	9490.7	9561.7	9583.7	9502.7
7.5°	9390.7	9417.7	9486.7	9496.7	9418.7
10°	9278.7	9326.7	9372.7	9422.7	9327.7
12.5°	9135.7	9200.7	9278.7	9287.7	9215.7
15°	8974.8	9034.8	9119.7	9174.7	9055.8
17.5°	8794.8	8852.8	8962.8	8972.8	8900.8
20°	8593.8	8665.8	8797.8	8820.8	8691.8
22.5°	8365.8	8462.8	8572.8	8594.8	8499.8
25°	8126.8	8226.8	8362.8	8393.8	8266.8
27.5°	7876.8	7972.8	8125.8	8147.8	8040.8
30°	7608.8	7698.8	7866.8	7903.8	7794.8
32.5°	7336.8	7426.8	7612.8	7643.8	7537.8
35°	7034.8	7144.8	7313.8	7364.8	7245.8
37.5°	6726.8	6833.8	7025.8	7071.8	6943.8
40°	6407.8	6513.8	6702.8	6740.8	6617.8
42.5°	6081.8	6187.8	6389.8	6395.8	6293.8
45°	5748.8	5850.8	6038.8	6043.8	5924.8
47.5°	5410.9	5513.8	5681.8	5662.8	5550.8
50°	5068.9	5166.9	5313.9	5275.9	5174.9
52.5°	4714.9	4809.9	4948.9	4886.9	4791.9
55°	4358.9	4446.9	4562.9	4496.9	4422.9
57.5°	3999.9	4088.9	4177.9	4110.9	4046.9
60°	3637.9	3715.9	3788.9	3720.9	3671.9
62.5°	3269.9	3336.9	3399.9	3334.9	3288.9
65°	2897.9	2956.9	3008.9	2948.9	2899.9
67.5°	2527.9	2577.9	2625.9	2563.9	2512.9
70°	2157.9	2200.9	2244.9	2180.9	2133.9
72.5°	1793.0	1830.9	1869.9	1808.0	1767.0
75°	1438.0	1471.0	1503.0	1448.0	1416.0
77.5°	1099.0	1127.0	1149.0	1114.0	1083.0
80°	784.0	805.0	818.0	804.0	775.0
82.5°	504.0	519.0	526.0	525.0	506.0
85°	274.0	279.0	292.0	295.0	285.0
87.5°	106.0	113.0	116.0	125.0	115.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)