

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: P489544

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-35-120-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: P489544
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-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

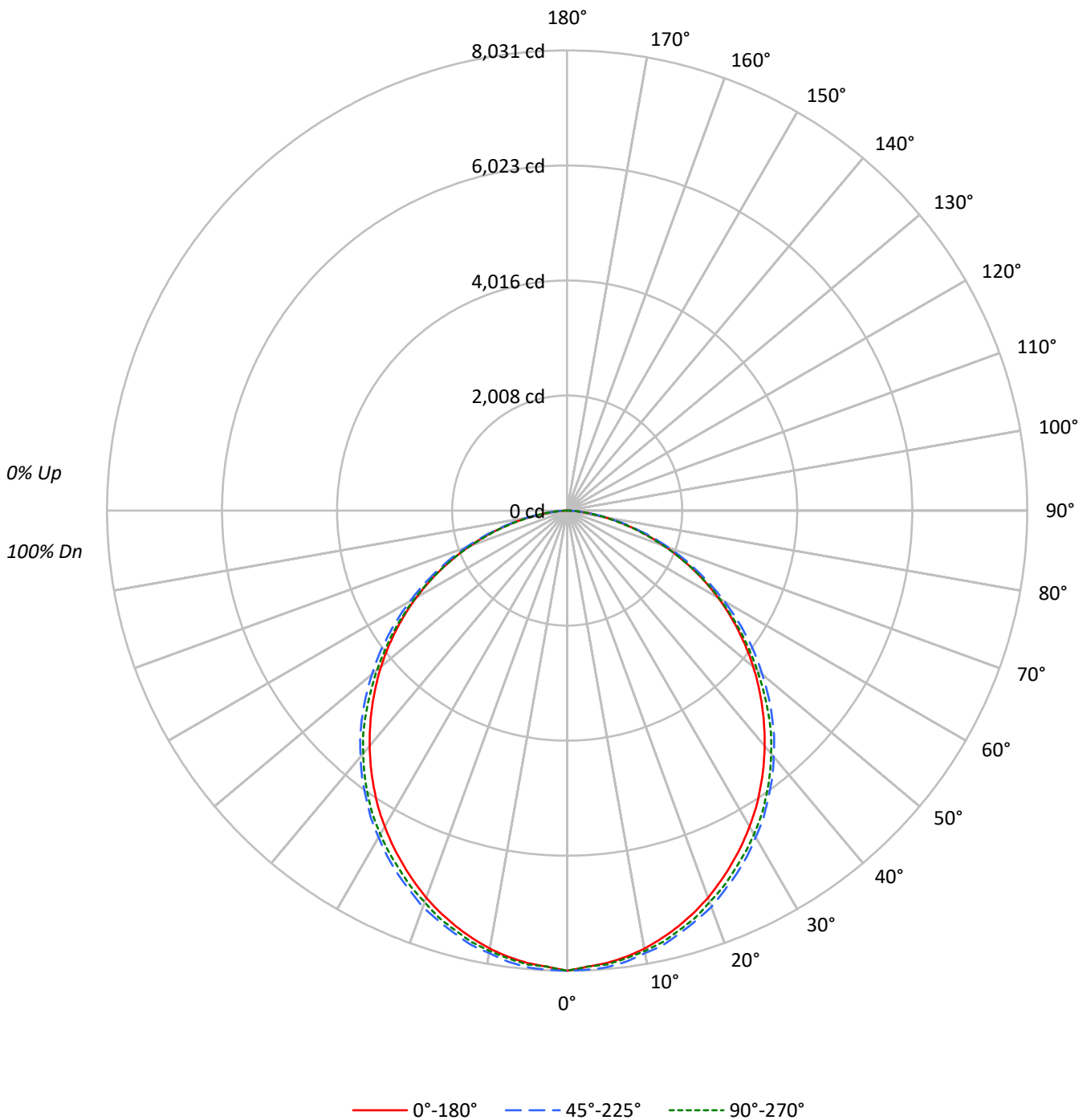
Lumens per Lamp: N/A
Luminaire Lumens: 21113.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	10805	10805	10805
5°	10705	10806	10739
10°	10608	10715	10664
15°	10461	10629	10555
20°	10296	10540	10413
25°	10095	10388	10269
30°	9892	10227	10133
35°	9669	10052	9959
40°	9417	9851	9726
45°	9153	9615	9433
50°	8878	9307	9064
55°	8556	8956	8681
60°	8191	8531	8268
65°	7720	8016	7725
70°	7104	7390	7024
75°	6255	6538	6159
80°	5083	5303	5025
85°	3540	3771	3682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.3	3.6
10°-20°	2143.3	10.2
20°-30°	3196.7	15.1
30°-40°	3788.1	17.9
40°-50°	3833.0	18.2
50°-60°	3347.6	15.9
60°-70°	2446.3	11.6
70°-80°	1301.6	6.2
80°-90°	300.8	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°	6096.4	28.9
0°-40°	9884.5	46.8
0°-60°	17065.0	80.8
0°-90°	21113.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21113.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8031	8031	8031	8031	8031	
5°	7926	7941	8001	8019	7951	752
15°	7510	7560	7631	7677	7577	2117
25°	6800	6884	6998	7024	6917	3133
35°	5886	5978	6120	6162	6063	3681
45°	4810	4896	5053	5057	4958	3711
55°	3647	3721	3818	3763	3701	3260
65°	2425	2474	2518	2468	2426	2400
75°	1203	1231	1258	1212	1185	1279
85°	229	233	244	247	238	290
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8030.9	8030.9	8030.9	8030.9	8030.9
2.5°	7968.1	7994.1	8020.9	8032.6	7967.3
5°	7926.3	7941.4	8000.8	8019.2	7951.4
7.5°	7857.7	7880.3	7938.0	7946.4	7881.1
10°	7764.0	7804.1	7842.6	7884.5	7805.0
12.5°	7644.3	7698.7	7764.0	7771.5	7711.3
15°	7509.6	7559.8	7630.9	7677.0	7577.4
17.5°	7359.0	7407.5	7499.6	7507.9	7447.7
20°	7190.8	7251.1	7361.5	7380.8	7272.8
22.5°	7000.1	7081.2	7173.3	7191.7	7112.2
25°	6800.1	6883.7	6997.5	7023.5	6917.2
27.5°	6590.9	6671.2	6799.2	6817.6	6728.1
30°	6366.7	6442.0	6582.5	6613.5	6522.3
32.5°	6139.1	6214.4	6370.0	6395.9	6307.2
35°	5886.4	5978.4	6119.8	6162.5	6062.9
37.5°	5628.7	5718.2	5878.8	5917.3	5810.2
40°	5361.7	5450.4	5608.6	5640.4	5537.5
42.5°	5089.0	5177.7	5346.7	5351.7	5266.4
45°	4810.3	4895.7	5053.0	5057.2	4957.6
47.5°	4527.5	4613.7	4754.3	4738.4	4644.7
50°	4241.4	4323.4	4446.4	4414.6	4330.1
52.5°	3945.2	4024.7	4141.0	4089.1	4009.6
55°	3647.3	3720.9	3818.0	3762.8	3700.8
57.5°	3346.9	3421.4	3495.8	3439.8	3386.2
60°	3044.0	3109.3	3170.4	3113.5	3072.5
62.5°	2736.1	2792.2	2844.9	2790.5	2752.0
65°	2424.8	2474.2	2517.7	2467.5	2426.5
67.5°	2115.2	2157.1	2197.2	2145.4	2102.7
70°	1805.7	1841.6	1878.5	1824.9	1785.6
72.5°	1500.3	1532.0	1564.7	1512.8	1478.5
75°	1203.2	1230.8	1257.6	1211.6	1184.8
77.5°	919.6	943.0	961.4	932.1	906.2
80°	656.0	673.6	684.4	672.7	648.5
82.5°	421.7	434.3	440.1	439.3	423.4
85°	229.3	233.4	244.3	246.8	238.5
87.5°	88.7	94.6	97.1	104.6	96.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)