

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: P489562

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-20-120-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: P489562
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-LD4-5STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

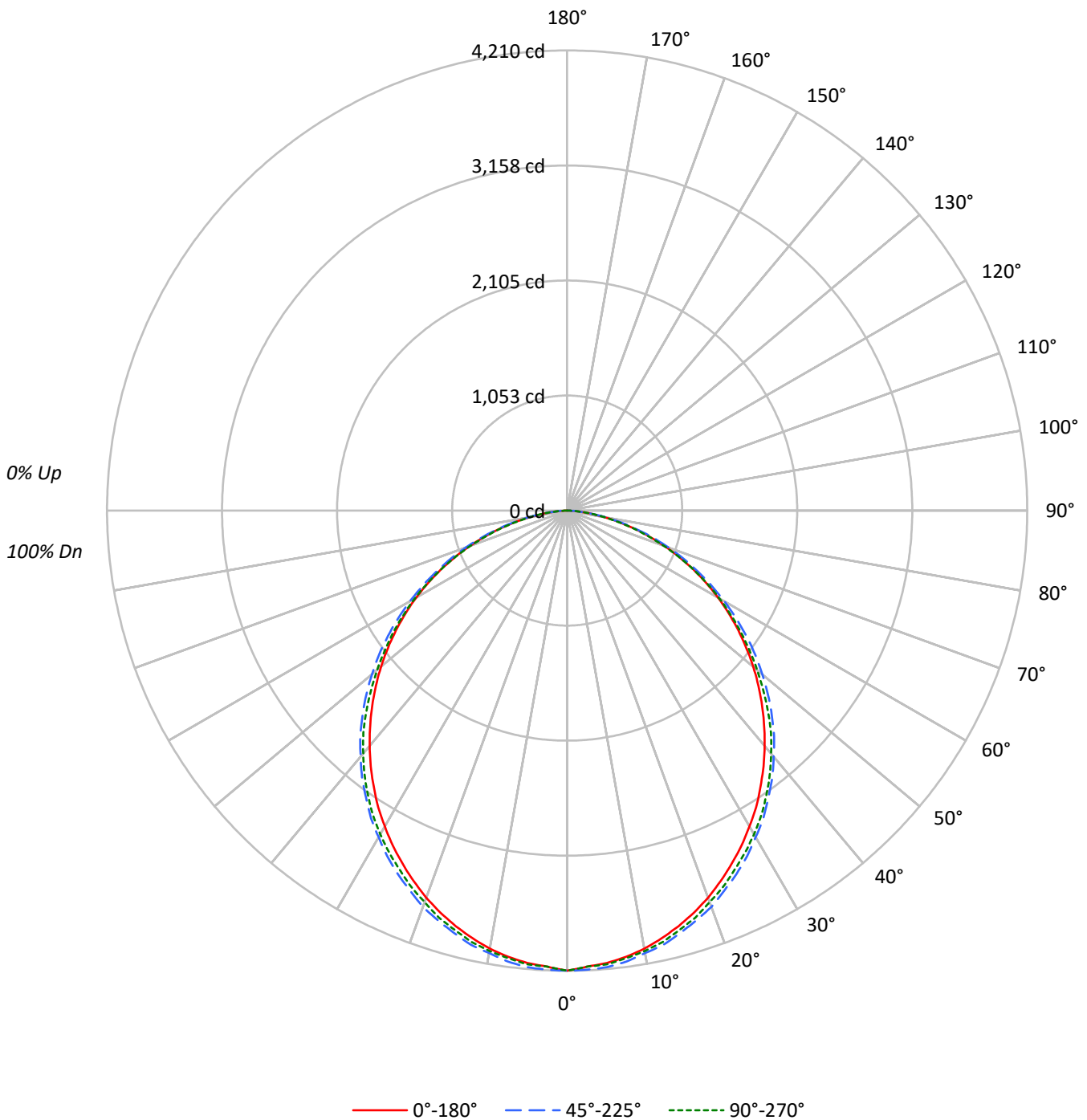
Lumens per Lamp: N/A
Luminaire Lumens: 11067.1 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	5664	5664	5664
5°	5611	5664	5629
10°	5560	5616	5589
15°	5483	5572	5533
20°	5397	5525	5458
25°	5292	5445	5383
30°	5185	5361	5312
35°	5068	5269	5220
40°	4936	5163	5098
45°	4798	5040	4945
50°	4654	4878	4751
55°	4485	4695	4551
60°	4294	4472	4334
65°	4046	4202	4049
70°	3723	3873	3682
75°	3279	3427	3228
80°	2664	2780	2634
85°	1856	1978	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.5	3.6
10°-20°	1123.5	10.2
20°-30°	1675.6	15.1
30°-40°	1985.6	17.9
40°-50°	2009.1	18.2
50°-60°	1754.7	15.9
60°-70°	1282.2	11.6
70°-80°	682.3	6.2
80°-90°	157.7	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°	3195.5	28.9
0°-40°	5181.1	46.8
0°-60°	8944.9	80.8
0°-90°	11067.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11067.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4210	4210	4210	4210	4210	
5°	4155	4163	4194	4203	4168	394
15°	3936	3963	4000	4024	3972	1110
25°	3564	3608	3668	3682	3626	1642
35°	3085	3134	3208	3230	3178	1930
45°	2521	2566	2649	2651	2599	1945
55°	1912	1950	2001	1972	1940	1709
65°	1271	1297	1320	1293	1272	1258
75°	631	645	659	635	621	671
85°	120	122	128	129	125	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4209.5	4209.5	4209.5	4209.5	4209.5
2.5°	4176.6	4190.2	4204.3	4210.4	4176.2
5°	4154.7	4162.6	4193.7	4203.4	4167.9
7.5°	4118.7	4130.6	4160.8	4165.2	4131.0
10°	4069.6	4090.7	4110.8	4132.8	4091.1
12.5°	4006.9	4035.4	4069.6	4073.6	4042.0
15°	3936.3	3962.6	3999.9	4024.0	3971.8
17.5°	3857.3	3882.8	3931.0	3935.4	3903.8
20°	3769.2	3800.8	3858.7	3868.8	3812.2
22.5°	3669.2	3711.7	3760.0	3769.6	3728.0
25°	3564.4	3608.2	3667.9	3681.5	3625.8
27.5°	3454.7	3496.8	3563.9	3573.6	3526.7
30°	3337.2	3376.7	3450.3	3466.6	3418.8
32.5°	3217.9	3257.4	3338.9	3352.5	3306.0
35°	3085.4	3133.7	3207.8	3230.2	3178.0
37.5°	2950.4	2997.3	3081.5	3101.7	3045.5
40°	2810.4	2856.9	2939.8	2956.5	2902.6
42.5°	2667.5	2714.0	2802.6	2805.2	2760.4
45°	2521.4	2566.2	2648.6	2650.8	2598.6
47.5°	2373.2	2418.4	2492.0	2483.7	2434.6
50°	2223.2	2266.2	2330.6	2314.0	2269.7
52.5°	2067.9	2109.6	2170.6	2143.4	2101.7
55°	1911.8	1950.4	2001.3	1972.3	1939.9
57.5°	1754.3	1793.4	1832.4	1803.0	1775.0
60°	1595.6	1629.8	1661.8	1632.0	1610.5
62.5°	1434.2	1463.6	1491.2	1462.7	1442.5
65°	1271.0	1296.9	1319.7	1293.4	1271.9
67.5°	1108.7	1130.7	1151.7	1124.5	1102.2
70°	946.5	965.3	984.6	956.6	935.9
72.5°	786.4	803.0	820.2	793.0	775.0
75°	630.7	645.2	659.2	635.1	621.0
77.5°	482.0	494.3	503.9	488.6	475.0
80°	343.8	353.1	358.8	352.6	339.9
82.5°	221.0	227.6	230.7	230.3	221.9
85°	120.2	122.4	128.1	129.4	125.0
87.5°	46.5	49.6	50.9	54.8	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)