

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: P488972

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-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: P488972
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-24-2-INS-A12125-LD4-4HI-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

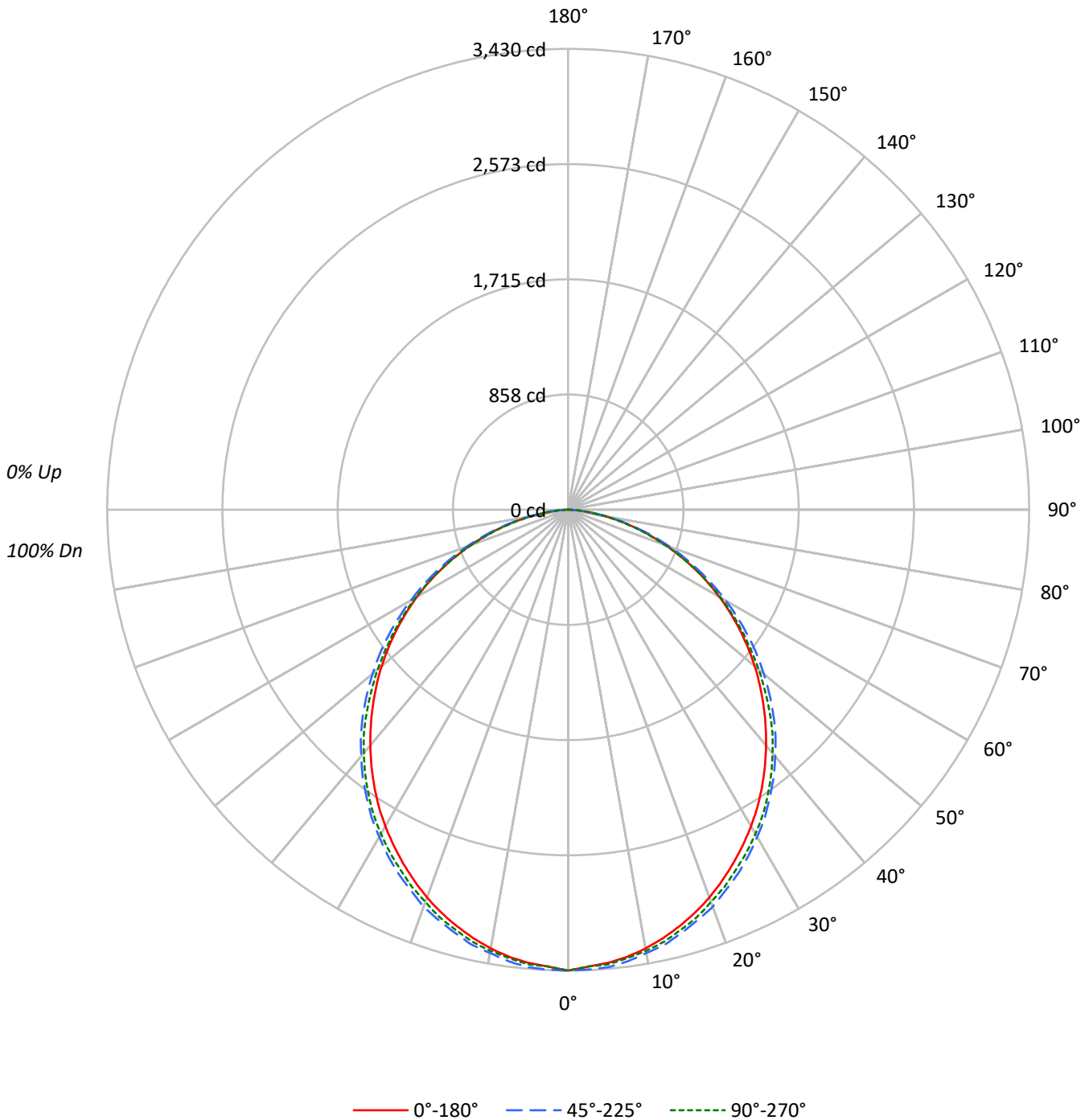
Lumens per Lamp: N/A
Luminaire Lumens: 9019.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	9231	9231	9231
5°	9146	9232	9175
10°	9062	9154	9110
15°	8937	9081	9017
20°	8796	9005	8897
25°	8625	8875	8773
30°	8451	8737	8657
35°	8260	8588	8508
40°	8045	8416	8309
45°	7820	8214	8059
50°	7585	7951	7743
55°	7309	7651	7417
60°	6998	7289	7063
65°	6595	6848	6600
70°	6069	6313	6001
75°	5344	5585	5262
80°	4342	4531	4293
85°	3023	3223	3146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	3.6
10°-20°	915.6	10.2
20°-30°	1365.5	15.1
30°-40°	1618.1	17.9
40°-50°	1637.3	18.2
50°-60°	1430.0	15.9
60°-70°	1044.9	11.6
70°-80°	556.0	6.2
80°-90°	128.5	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
0°-30°	2604.1	28.9
0°-40°	4222.3	46.8
0°-60°	7289.6	80.8
0°-90°	9019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3430	3430	3430	3430	3430	
5°	3386	3392	3418	3426	3397	321
15°	3208	3229	3260	3279	3237	904
25°	2905	2940	2989	3000	2955	1338
35°	2514	2554	2614	2632	2590	1572
45°	2055	2091	2158	2160	2118	1585
55°	1558	1589	1631	1607	1581	1393
65°	1036	1057	1076	1054	1036	1025
75°	514	526	537	518	506	546
85°	98	100	104	105	102	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3403.7	3414.8	3426.2	3431.2	3403.3
5°	3385.8	3392.3	3417.6	3425.5	3396.6
7.5°	3356.5	3366.2	3390.8	3394.4	3366.5
10°	3316.5	3333.6	3350.1	3368.0	3334.0
12.5°	3265.4	3288.6	3316.5	3319.7	3294.0
15°	3207.8	3229.3	3259.7	3279.3	3236.8
17.5°	3143.5	3164.2	3203.5	3207.1	3181.4
20°	3071.7	3097.4	3144.6	3152.8	3106.7
22.5°	2990.2	3024.8	3064.2	3072.0	3038.1
25°	2904.7	2940.5	2989.1	3000.2	2954.8
27.5°	2815.4	2849.7	2904.4	2912.2	2874.0
30°	2719.6	2751.8	2811.8	2825.0	2786.1
32.5°	2622.4	2654.6	2721.0	2732.1	2694.2
35°	2514.4	2553.8	2614.2	2632.4	2589.9
37.5°	2404.4	2442.6	2511.2	2527.7	2481.9
40°	2290.3	2328.2	2395.8	2409.4	2365.4
42.5°	2173.8	2211.7	2283.9	2286.1	2249.6
45°	2054.8	2091.3	2158.5	2160.2	2117.7
47.5°	1934.0	1970.8	2030.9	2024.1	1984.0
50°	1811.8	1846.8	1899.3	1885.7	1849.6
52.5°	1685.2	1719.2	1768.9	1746.7	1712.8
55°	1558.0	1589.4	1630.9	1607.3	1580.9
57.5°	1429.7	1461.5	1493.3	1469.3	1446.5
60°	1300.3	1328.2	1354.3	1330.0	1312.4
62.5°	1168.8	1192.7	1215.2	1192.0	1175.6
65°	1035.8	1056.9	1075.5	1054.0	1036.5
67.5°	903.6	921.4	938.6	916.4	898.2
70°	771.3	786.7	802.4	779.5	762.7
72.5°	640.9	654.4	668.4	646.2	631.6
75°	514.0	525.8	537.2	517.5	506.1
77.5°	392.8	402.8	410.7	398.2	387.1
80°	280.2	287.7	292.4	287.4	277.0
82.5°	180.1	185.5	188.0	187.6	180.9
85°	97.9	99.7	104.4	105.4	101.9
87.5°	37.9	40.4	41.5	44.7	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)