

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: P488551

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-40-120-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: P488551
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-12-4-INS-A12125-LD4-1LO-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

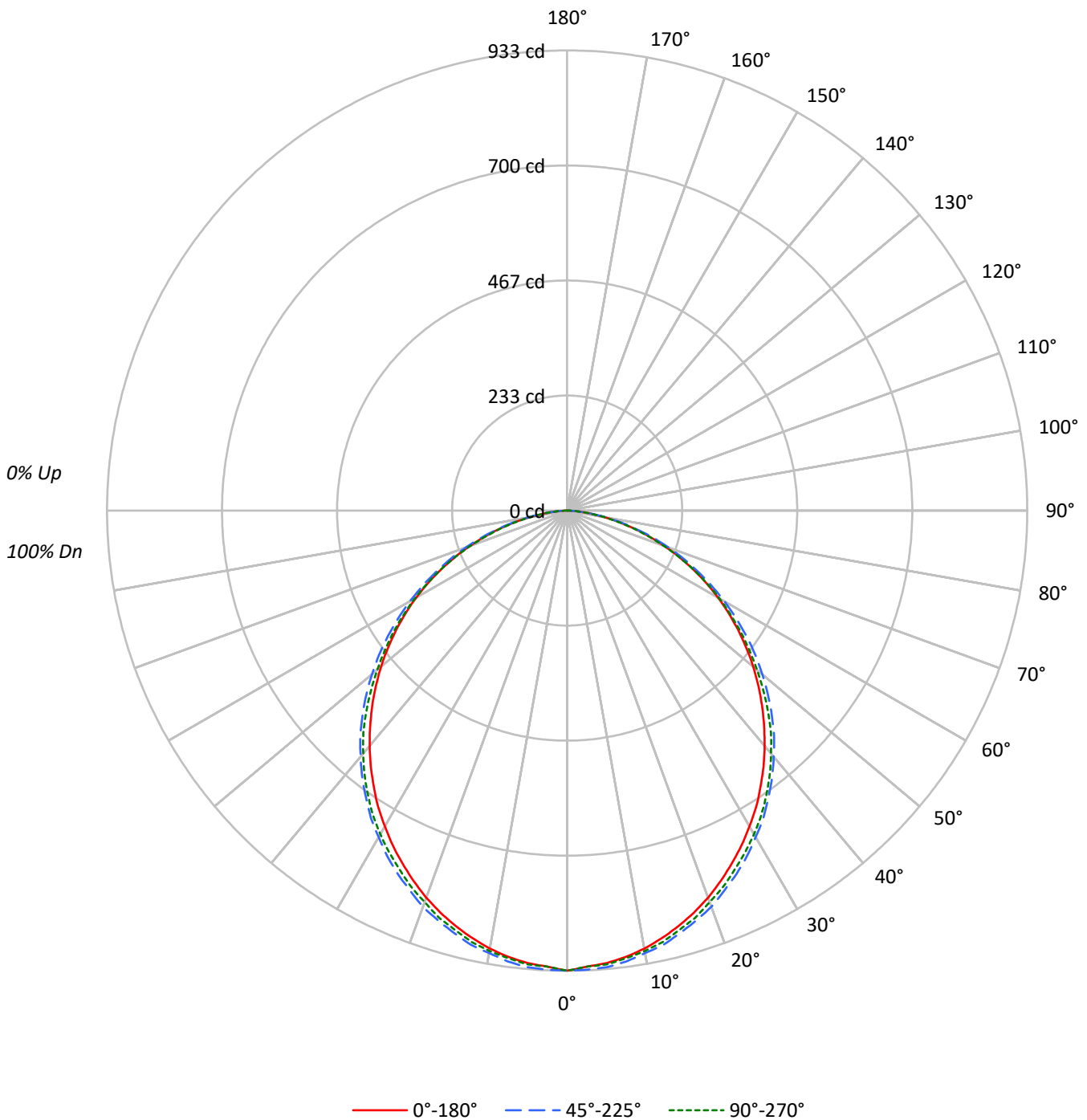
Lumens per Lamp: N/A
Luminaire Lumens: 2452.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2510	2510	2510
5°	2487	2510	2495
10°	2464	2489	2477
15°	2430	2469	2452
20°	2392	2449	2419
25°	2345	2413	2385
30°	2298	2376	2354
35°	2246	2335	2313
40°	2188	2288	2259
45°	2126	2234	2191
50°	2062	2162	2105
55°	1987	2081	2017
60°	1903	1982	1921
65°	1793	1862	1794
70°	1650	1717	1632
75°	1454	1519	1431
80°	1181	1232	1167
85°	821	877	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.6
10°-20°	249.0	10.2
20°-30°	371.3	15.1
30°-40°	440.0	17.9
40°-50°	445.2	18.2
50°-60°	388.8	15.9
60°-70°	284.1	11.6
70°-80°	151.2	6.2
80°-90°	34.9	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°	708.1	28.9
0°-40°	1148.1	46.8
0°-60°	1982.1	80.8
0°-90°	2452.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	921	922	929	931	924	87
15°	872	878	886	892	880	246
25°	790	800	813	816	803	364
35°	684	694	711	716	704	428
45°	559	569	587	587	576	431
55°	424	432	444	437	430	379
65°	282	287	292	287	282	279
75°	140	143	146	141	138	149
85°	27	27	28	29	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.8	932.8	932.8	932.8	932.8
2.5°	925.5	928.5	931.6	933.0	925.4
5°	920.7	922.4	929.3	931.4	923.6
7.5°	912.7	915.3	922.0	923.0	915.4
10°	901.8	906.5	910.9	915.8	906.6
12.5°	887.9	894.2	901.8	902.7	895.7
15°	872.3	878.1	886.4	891.7	880.1
17.5°	854.8	860.4	871.1	872.1	865.1
20°	835.2	842.2	855.1	857.3	844.8
22.5°	813.1	822.5	833.2	835.3	826.1
25°	789.8	799.6	812.8	815.8	803.4
27.5°	765.5	774.9	789.7	791.9	781.5
30°	739.5	748.2	764.6	768.2	757.6
32.5°	713.1	721.8	739.9	742.9	732.6
35°	683.7	694.4	710.8	715.8	704.2
37.5°	653.8	664.2	682.8	687.3	674.9
40°	622.8	633.1	651.4	655.1	643.2
42.5°	591.1	601.4	621.0	621.6	611.7
45°	558.7	568.6	586.9	587.4	575.8
47.5°	525.9	535.9	552.2	550.4	539.5
50°	492.6	502.2	516.5	512.8	502.9
52.5°	458.2	467.5	481.0	475.0	465.7
55°	423.6	432.2	443.5	437.1	429.9
57.5°	388.8	397.4	406.0	399.5	393.3
60°	353.6	361.1	368.2	361.6	356.9
62.5°	317.8	324.3	330.4	324.1	319.6
65°	281.6	287.4	292.4	286.6	281.8
67.5°	245.7	250.5	255.2	249.2	244.2
70°	209.7	213.9	218.2	212.0	207.4
72.5°	174.3	178.0	181.7	175.7	171.7
75°	139.8	143.0	146.1	140.7	137.6
77.5°	106.8	109.5	111.7	108.3	105.3
80°	76.2	78.2	79.5	78.1	75.3
82.5°	49.0	50.4	51.1	51.0	49.2
85°	26.6	27.1	28.4	28.7	27.7
87.5°	10.3	11.0	11.3	12.1	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)