

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: P488349

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-50-120-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: P488349
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-12-2-INS-A12125-LD4-1STD-50-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

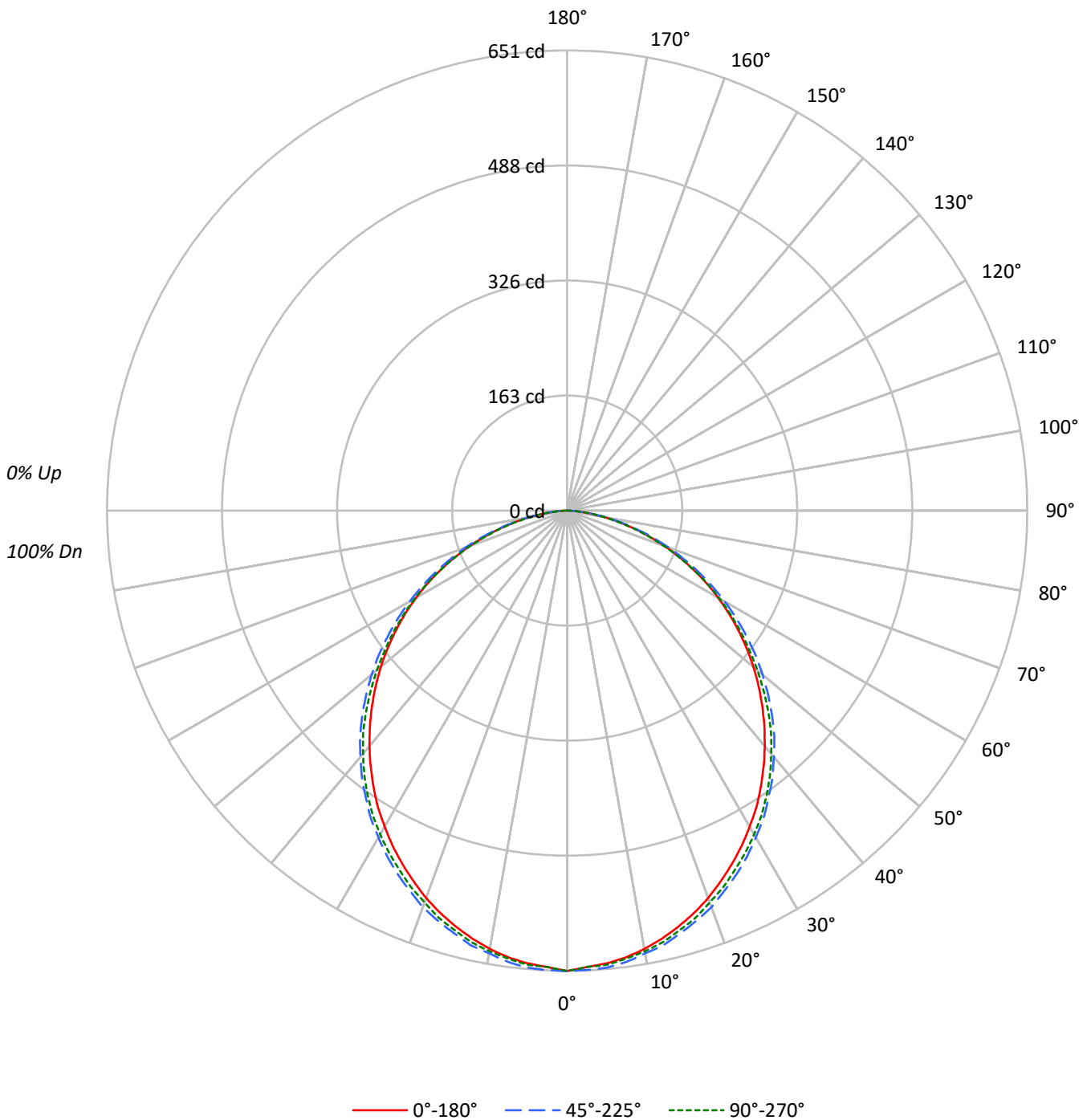
Lumens per Lamp: N/A
Luminaire Lumens: 1712.6 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3506	3506	3506
5°	3473	3506	3485
10°	3442	3476	3460
15°	3394	3449	3424
20°	3341	3420	3379
25°	3276	3371	3332
30°	3209	3318	3287
35°	3137	3261	3231
40°	3055	3196	3156
45°	2970	3120	3060
50°	2880	3020	2941
55°	2776	2906	2817
60°	2658	2768	2682
65°	2505	2600	2506
70°	2305	2398	2279
75°	2030	2121	1998
80°	1649	1720	1630
85°	1149	1223	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.6
10°-20°	173.9	10.2
20°-30°	259.3	15.1
30°-40°	307.3	17.9
40°-50°	310.9	18.2
50°-60°	271.5	15.9
60°-70°	198.4	11.6
70°-80°	105.6	6.2
80°-90°	24.4	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°	494.5	28.9
0°-40°	801.8	46.8
0°-60°	1384.2	80.8
0°-90°	1712.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1712.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	643	644	649	650	645	61
15°	609	613	619	623	615	172
25°	552	558	568	570	561	254
35°	478	485	496	500	492	299
45°	390	397	410	410	402	301
55°	296	302	310	305	300	264
65°	197	201	204	200	197	195
75°	98	100	102	98	96	104
85°	19	19	20	20	19	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.4	651.4	651.4	651.4	651.4
2.5°	646.3	648.4	650.6	651.5	646.3
5°	642.9	644.2	649.0	650.5	645.0
7.5°	637.4	639.2	643.9	644.6	639.3
10°	629.8	633.0	636.1	639.5	633.1
12.5°	620.1	624.5	629.8	630.4	625.5
15°	609.1	613.2	619.0	622.7	614.6
17.5°	596.9	600.8	608.3	609.0	604.1
20°	583.3	588.2	597.1	598.7	589.9
22.5°	567.8	574.4	581.8	583.3	576.9
25°	551.6	558.4	567.6	569.7	561.1
27.5°	534.6	541.1	551.5	553.0	545.7
30°	516.4	522.5	533.9	536.4	529.0
32.5°	498.0	504.1	516.7	518.8	511.6
35°	477.5	484.9	496.4	499.9	491.8
37.5°	456.6	463.8	476.9	480.0	471.3
40°	434.9	442.1	454.9	457.5	449.2
42.5°	412.8	420.0	433.7	434.1	427.2
45°	390.2	397.1	409.9	410.2	402.1
47.5°	367.2	374.2	385.6	384.3	376.7
50°	344.0	350.7	360.7	358.1	351.2
52.5°	320.0	326.5	335.9	331.7	325.2
55°	295.8	301.8	309.7	305.2	300.2
57.5°	271.5	277.5	283.6	279.0	274.7
60°	246.9	252.2	257.2	252.5	249.2
62.5°	221.9	226.5	230.8	226.3	223.2
65°	196.7	200.7	204.2	200.1	196.8
67.5°	171.6	175.0	178.2	174.0	170.6
70°	146.5	149.4	152.4	148.0	144.8
72.5°	121.7	124.3	126.9	122.7	119.9
75°	97.6	99.8	102.0	98.3	96.1
77.5°	74.6	76.5	78.0	75.6	73.5
80°	53.2	54.6	55.5	54.6	52.6
82.5°	34.2	35.2	35.7	35.6	34.3
85°	18.6	18.9	19.8	20.0	19.3
87.5°	7.2	7.7	7.9	8.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)