

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: P488317

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-27-120-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: P488317
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-LD4-1HI-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

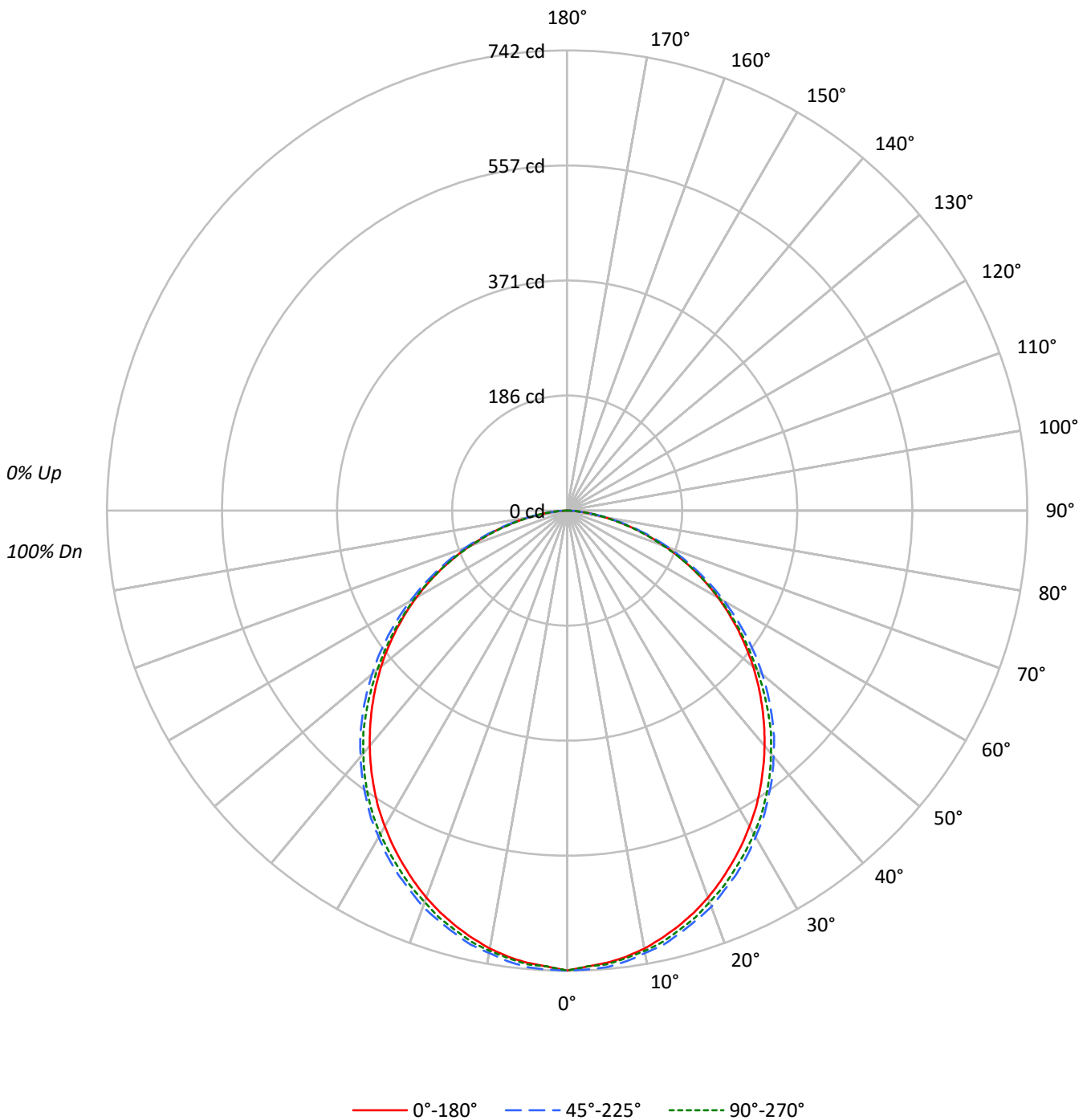
Lumens per Lamp: N/A
Luminaire Lumens: 1950.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3992	3992	3992
5°	3955	3992	3968
10°	3919	3958	3939
15°	3865	3927	3899
20°	3804	3894	3847
25°	3729	3838	3794
30°	3654	3778	3744
35°	3572	3713	3679
40°	3479	3639	3593
45°	3382	3552	3485
50°	3280	3439	3348
55°	3161	3309	3207
60°	3026	3152	3055
65°	2853	2961	2854
70°	2625	2730	2595
75°	2310	2414	2275
80°	1878	1959	1857
85°	1309	1396	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.6
10°-20°	198.0	10.2
20°-30°	295.2	15.1
30°-40°	349.9	17.9
40°-50°	354.0	18.2
50°-60°	309.2	15.9
60°-70°	225.9	11.6
70°-80°	120.2	6.2
80°-90°	27.8	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°	563.0	28.9
0°-40°	912.9	46.8
0°-60°	1576.1	80.8
0°-90°	1950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	732	733	739	741	734	69
15°	694	698	705	709	700	196
25°	628	636	646	649	639	289
35°	544	552	565	569	560	340
45°	444	452	467	467	458	343
55°	337	344	353	348	342	301
65°	224	228	232	228	224	222
75°	111	114	116	112	109	118
85°	21	22	23	23	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.7	741.7	741.7	741.7	741.7
2.5°	735.9	738.3	740.8	741.9	735.8
5°	732.1	733.4	738.9	740.6	734.4
7.5°	725.7	727.8	733.1	733.9	727.9
10°	717.1	720.8	724.3	728.2	720.8
12.5°	706.0	711.0	717.1	717.8	712.2
15°	693.6	698.2	704.8	709.0	699.8
17.5°	679.7	684.1	692.6	693.4	687.8
20°	664.1	669.7	679.9	681.7	671.7
22.5°	646.5	654.0	662.5	664.2	656.9
25°	628.0	635.8	646.3	648.7	638.9
27.5°	608.7	616.1	628.0	629.7	621.4
30°	588.0	595.0	607.9	610.8	602.4
32.5°	567.0	573.9	588.3	590.7	582.5
35°	543.6	552.1	565.2	569.1	560.0
37.5°	519.8	528.1	543.0	546.5	536.6
40°	495.2	503.4	518.0	520.9	511.4
42.5°	470.0	478.2	493.8	494.3	486.4
45°	444.3	452.2	466.7	467.1	457.9
47.5°	418.1	426.1	439.1	437.6	429.0
50°	391.7	399.3	410.7	407.7	399.9
52.5°	364.4	371.7	382.4	377.7	370.3
55°	336.9	343.7	352.6	347.5	341.8
57.5°	309.1	316.0	322.9	317.7	312.7
60°	281.1	287.2	292.8	287.6	283.8
62.5°	252.7	257.9	262.7	257.7	254.2
65°	224.0	228.5	232.5	227.9	224.1
67.5°	195.4	199.2	202.9	198.1	194.2
70°	166.8	170.1	173.5	168.5	164.9
72.5°	138.6	141.5	144.5	139.7	136.5
75°	111.1	113.7	116.1	111.9	109.4
77.5°	84.9	87.1	88.8	86.1	83.7
80°	60.6	62.2	63.2	62.1	59.9
82.5°	38.9	40.1	40.6	40.6	39.1
85°	21.2	21.6	22.6	22.8	22.0
87.5°	8.2	8.7	9.0	9.7	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)