

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: P488375

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-20-120-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: P488375
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-LD4-2STD-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

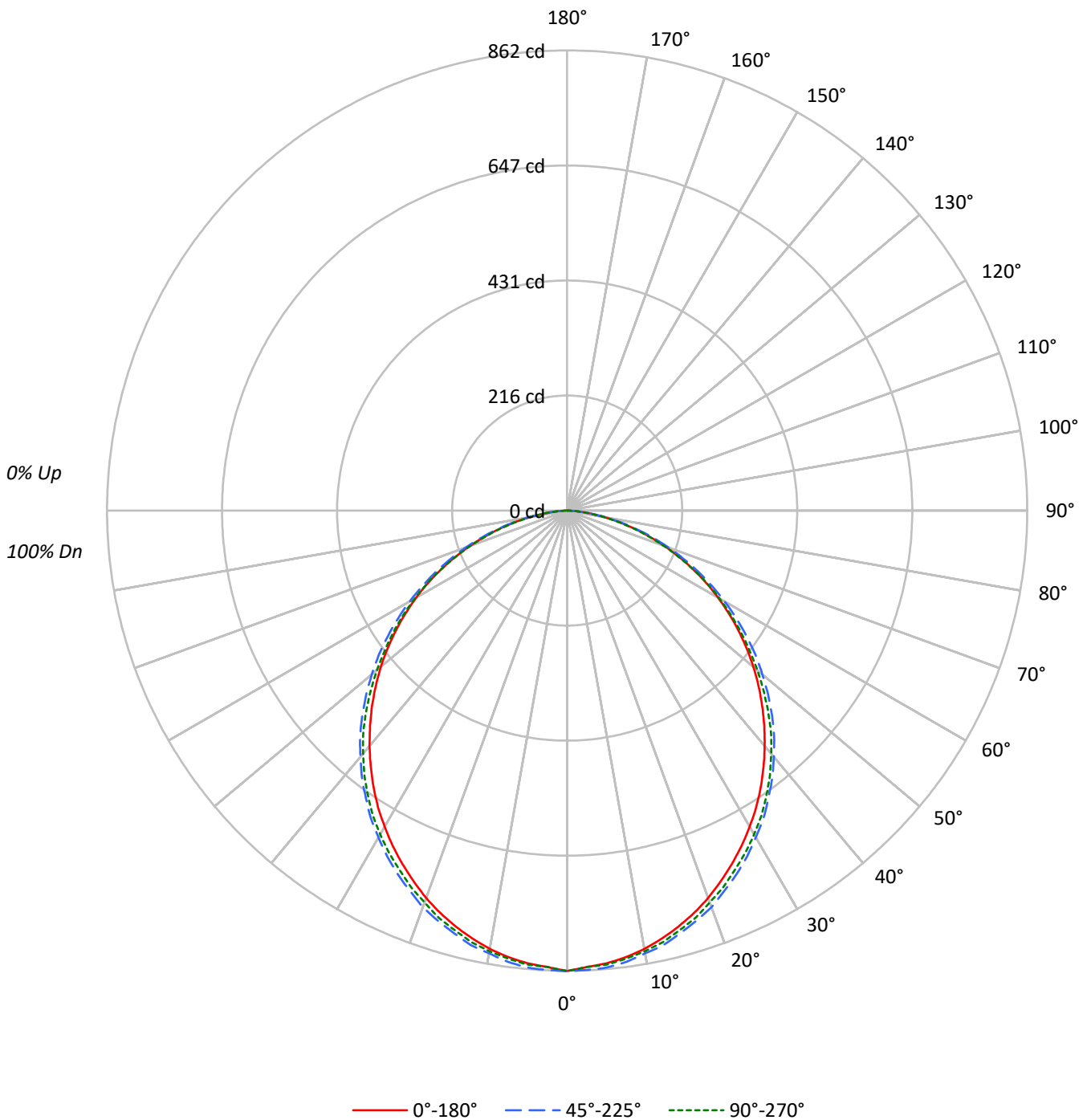
Lumens per Lamp: N/A
Luminaire Lumens: 2267.5 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	4642	4642	4642
5°	4599	4642	4613
10°	4557	4603	4581
15°	4494	4566	4534
20°	4423	4528	4474
25°	4337	4463	4412
30°	4249	4393	4353
35°	4154	4318	4278
40°	4045	4232	4178
45°	3932	4131	4052
50°	3814	3998	3893
55°	3675	3847	3730
60°	3519	3665	3552
65°	3316	3443	3319
70°	3051	3174	3018
75°	2687	2809	2645
80°	2185	2278	2157
85°	1519	1618	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	3.6
10°-20°	230.2	10.2
20°-30°	343.3	15.1
30°-40°	406.8	17.9
40°-50°	411.6	18.2
50°-60°	359.5	15.9
60°-70°	262.7	11.6
70°-80°	139.8	6.2
80°-90°	32.3	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°	654.7	28.9
0°-40°	1061.5	46.8
0°-60°	1832.7	80.8
0°-90°	2267.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	851	853	859	861	854	81
15°	806	812	820	824	814	227
25°	730	739	752	754	743	336
35°	632	642	657	662	651	395
45°	517	526	543	543	532	399
55°	392	400	410	404	398	350
65°	260	266	270	265	261	258
75°	129	132	135	130	127	137
85°	25	25	26	26	26	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.5	862.5	862.5	862.5	862.5
2.5°	855.7	858.5	861.4	862.7	855.6
5°	851.2	852.9	859.2	861.2	853.9
7.5°	843.9	846.3	852.5	853.4	846.4
10°	833.8	838.1	842.3	846.8	838.2
12.5°	821.0	826.8	833.8	834.6	828.1
15°	806.5	811.9	819.5	824.5	813.8
17.5°	790.3	795.5	805.4	806.3	799.8
20°	772.3	778.7	790.6	792.7	781.1
22.5°	751.8	760.5	770.4	772.3	763.8
25°	730.3	739.3	751.5	754.3	742.9
27.5°	707.8	716.5	730.2	732.2	722.6
30°	683.7	691.8	706.9	710.3	700.5
32.5°	659.3	667.4	684.1	686.9	677.4
35°	632.2	642.0	657.2	661.8	651.1
37.5°	604.5	614.1	631.4	635.5	624.0
40°	575.8	585.3	602.3	605.7	594.7
42.5°	546.5	556.1	574.2	574.7	565.6
45°	516.6	525.8	542.7	543.1	532.4
47.5°	486.2	495.5	510.6	508.9	498.8
50°	455.5	464.3	477.5	474.1	465.0
52.5°	423.7	432.2	444.7	439.1	430.6
55°	391.7	399.6	410.0	404.1	397.5
57.5°	359.4	367.4	375.4	369.4	363.7
60°	326.9	333.9	340.5	334.4	330.0
62.5°	293.8	299.9	305.5	299.7	295.5
65°	260.4	265.7	270.4	265.0	260.6
67.5°	227.2	231.7	236.0	230.4	225.8
70°	193.9	197.8	201.7	196.0	191.8
72.5°	161.1	164.5	168.0	162.5	158.8
75°	129.2	132.2	135.1	130.1	127.2
77.5°	98.8	101.3	103.2	100.1	97.3
80°	70.5	72.3	73.5	72.2	69.6
82.5°	45.3	46.6	47.3	47.2	45.5
85°	24.6	25.1	26.2	26.5	25.6
87.5°	9.5	10.2	10.4	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)