

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: P488325

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-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: P488325
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-50-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

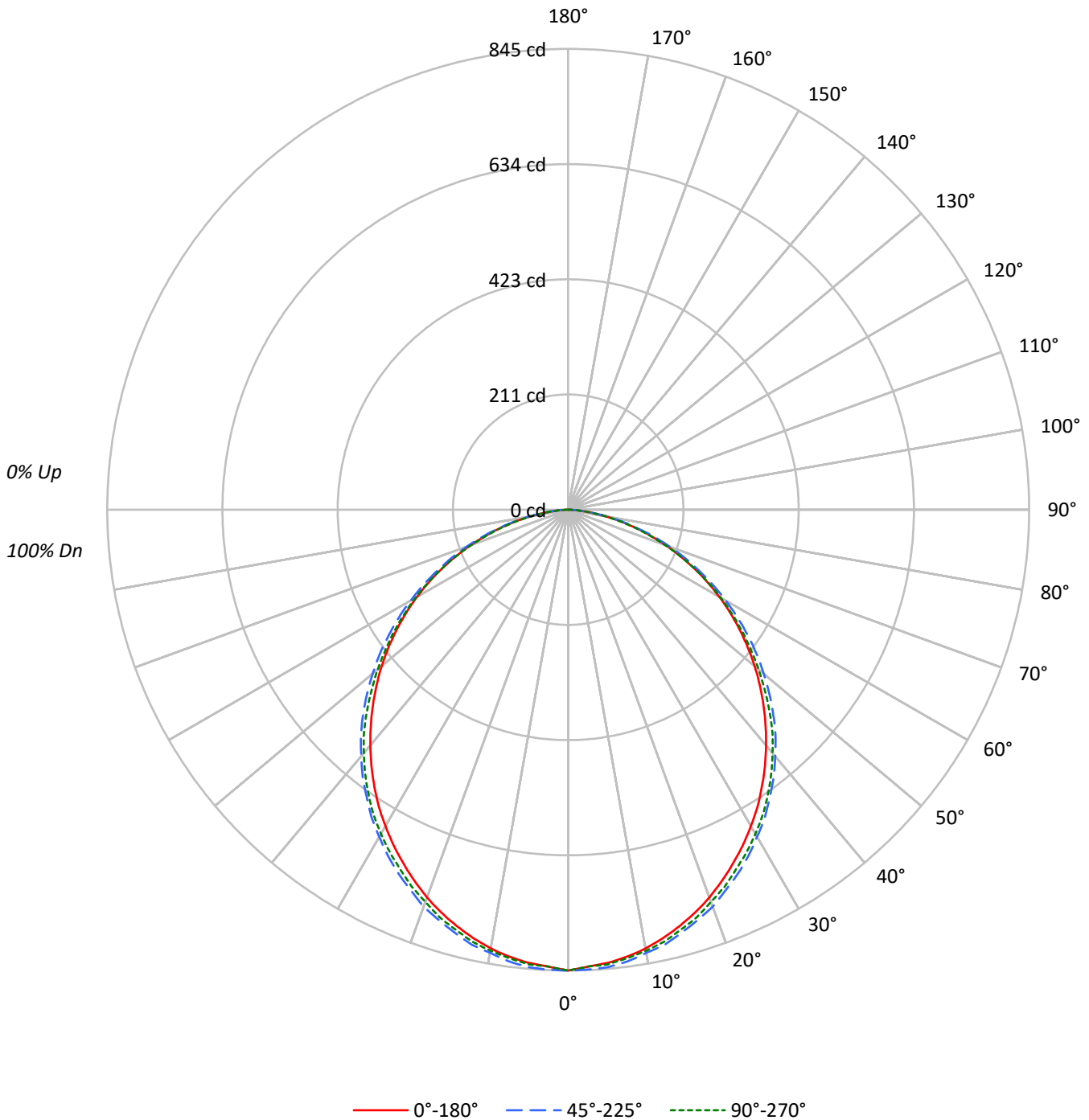
Lumens per Lamp: N/A
Luminaire Lumens: 2221.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	4548	4548	4548
5°	4506	4548	4520
10°	4465	4510	4488
15°	4403	4474	4442
20°	4334	4436	4383
25°	4249	4372	4323
30°	4163	4304	4265
35°	4070	4231	4192
40°	3964	4147	4094
45°	3853	4047	3971
50°	3737	3918	3815
55°	3601	3769	3654
60°	3448	3591	3480
65°	3250	3373	3251
70°	2990	3111	2957
75°	2633	2751	2593
80°	2139	2232	2114
85°	1488	1587	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.6
10°-20°	225.5	10.2
20°-30°	336.4	15.1
30°-40°	398.6	17.9
40°-50°	403.3	18.2
50°-60°	352.2	15.9
60°-70°	257.4	11.6
70°-80°	137.0	6.2
80°-90°	31.7	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°	641.5	28.9
0°-40°	1040.1	46.8
0°-60°	1795.7	80.8
0°-90°	2221.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	834	836	842	844	837	79
15°	790	796	803	808	797	223
25°	716	724	736	739	728	330
35°	619	629	644	648	638	387
45°	506	515	532	532	522	390
55°	384	392	402	396	389	343
65°	255	260	265	260	255	253
75°	127	130	132	128	125	135
85°	24	25	26	26	25	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.1	845.1	845.1	845.1	845.1
2.5°	838.5	841.2	844.0	845.2	838.4
5°	834.0	835.6	841.9	843.8	836.7
7.5°	826.8	829.2	835.3	836.2	829.3
10°	817.0	821.2	825.2	829.6	821.3
12.5°	804.4	810.1	817.0	817.8	811.4
15°	790.2	795.5	803.0	807.8	797.3
17.5°	774.4	779.5	789.1	790.0	783.7
20°	756.7	763.0	774.6	776.6	765.3
22.5°	736.6	745.1	754.8	756.7	748.4
25°	715.5	724.3	736.3	739.0	727.9
27.5°	693.5	702.0	715.5	717.4	708.0
30°	669.9	677.9	692.6	695.9	686.3
32.5°	646.0	653.9	670.3	673.0	663.7
35°	619.4	629.1	644.0	648.5	638.0
37.5°	592.3	601.7	618.6	622.7	611.4
40°	564.2	573.5	590.2	593.5	582.7
42.5°	535.5	544.8	562.6	563.1	554.2
45°	506.2	515.2	531.7	532.1	521.7
47.5°	476.4	485.5	500.3	498.6	488.7
50°	446.3	454.9	467.9	464.5	455.6
52.5°	415.1	423.5	435.7	430.3	421.9
55°	383.8	391.5	401.7	395.9	389.4
57.5°	352.2	360.0	367.9	362.0	356.3
60°	320.3	327.2	333.6	327.6	323.3
62.5°	287.9	293.8	299.4	293.6	289.6
65°	255.2	260.3	264.9	259.6	255.3
67.5°	222.6	227.0	231.2	225.7	221.3
70°	190.0	193.8	197.7	192.0	187.9
72.5°	157.9	161.2	164.6	159.2	155.6
75°	126.6	129.5	132.3	127.5	124.7
77.5°	96.8	99.2	101.2	98.1	95.4
80°	69.0	70.9	72.0	70.8	68.2
82.5°	44.4	45.7	46.3	46.2	44.6
85°	24.1	24.6	25.7	26.0	25.1
87.5°	9.3	9.9	10.2	11.0	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)