

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: P488321

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-35-120-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: P488321
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-35-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

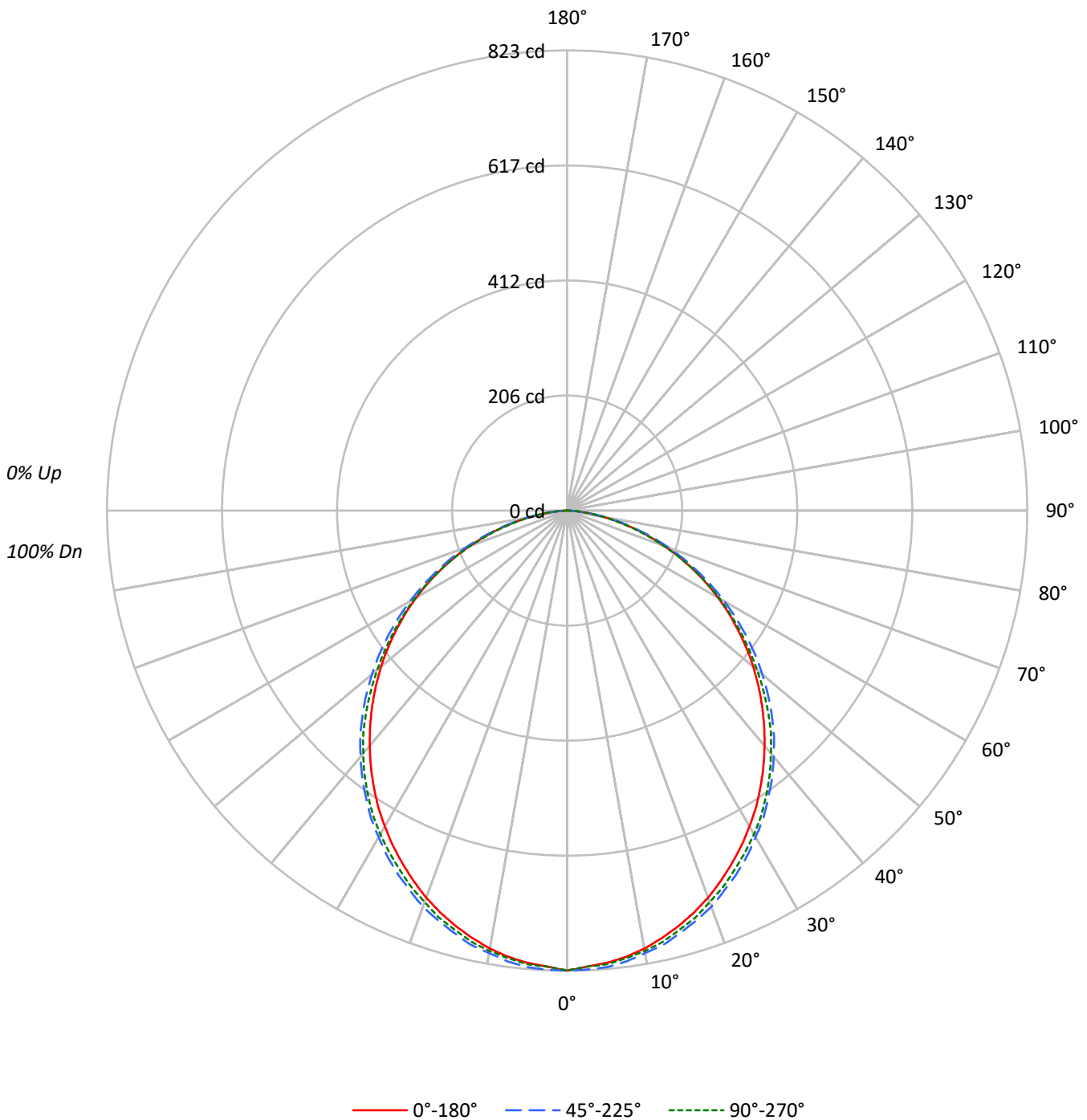
Lumens per Lamp: N/A
Luminaire Lumens: 2163.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4428	4428	4428
5°	4387	4428	4401
10°	4347	4391	4370
15°	4286	4356	4325
20°	4219	4320	4267
25°	4137	4257	4208
30°	4053	4190	4153
35°	3962	4119	4081
40°	3859	4037	3986
45°	3751	3940	3866
50°	3638	3814	3714
55°	3506	3670	3557
60°	3356	3496	3388
65°	3163	3284	3166
70°	2911	3028	2878
75°	2564	2678	2524
80°	2083	2173	2058
85°	1451	1544	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.6
10°-20°	219.6	10.2
20°-30°	327.5	15.1
30°-40°	388.1	17.9
40°-50°	392.7	18.2
50°-60°	342.9	15.9
60°-70°	250.6	11.6
70°-80°	133.3	6.2
80°-90°	30.8	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°	624.5	28.9
0°-40°	1012.6	46.8
0°-60°	1748.2	80.8
0°-90°	2163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	812	814	820	822	815	77
15°	769	774	782	786	776	217
25°	697	705	717	720	709	321
35°	603	612	627	631	621	377
45°	493	502	518	518	508	380
55°	374	381	391	386	379	334
65°	248	254	258	253	249	246
75°	123	126	129	124	121	131
85°	24	24	25	25	24	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	822.7	822.7	822.7	822.7	822.7
2.5°	816.3	819.0	821.7	822.9	816.2
5°	812.0	813.6	819.6	821.5	814.6
7.5°	805.0	807.3	813.2	814.1	807.4
10°	795.4	799.5	803.4	807.7	799.6
12.5°	783.1	788.7	795.4	796.2	790.0
15°	769.3	774.5	781.8	786.5	776.3
17.5°	753.9	758.9	768.3	769.2	763.0
20°	736.7	742.8	754.2	756.1	745.1
22.5°	717.1	725.4	734.9	736.8	728.6
25°	696.6	705.2	716.9	719.5	708.6
27.5°	675.2	683.4	696.6	698.4	689.3
30°	652.2	659.9	674.3	677.5	668.2
32.5°	628.9	636.6	652.6	655.2	646.1
35°	603.0	612.5	626.9	631.3	621.1
37.5°	576.6	585.8	602.3	606.2	595.2
40°	549.3	558.4	574.6	577.8	567.3
42.5°	521.3	530.4	547.7	548.3	539.5
45°	492.8	501.5	517.7	518.1	507.9
47.5°	463.8	472.7	487.1	485.4	475.8
50°	434.5	442.9	455.5	452.3	443.6
52.5°	404.2	412.3	424.2	418.9	410.8
55°	373.6	381.2	391.1	385.5	379.1
57.5°	342.9	350.5	358.1	352.4	346.9
60°	311.8	318.5	324.8	319.0	314.8
62.5°	280.3	286.0	291.4	285.9	281.9
65°	248.4	253.5	257.9	252.8	248.6
67.5°	216.7	221.0	225.1	219.8	215.4
70°	185.0	188.7	192.4	187.0	182.9
72.5°	153.7	157.0	160.3	155.0	151.5
75°	123.3	126.1	128.8	124.1	121.4
77.5°	94.2	96.6	98.5	95.5	92.8
80°	67.2	69.0	70.1	68.9	66.4
82.5°	43.2	44.5	45.1	45.0	43.4
85°	23.5	23.9	25.0	25.3	24.4
87.5°	9.1	9.7	9.9	10.7	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)