

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: P488316

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-27-120-EDD-90**

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: P488316
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-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

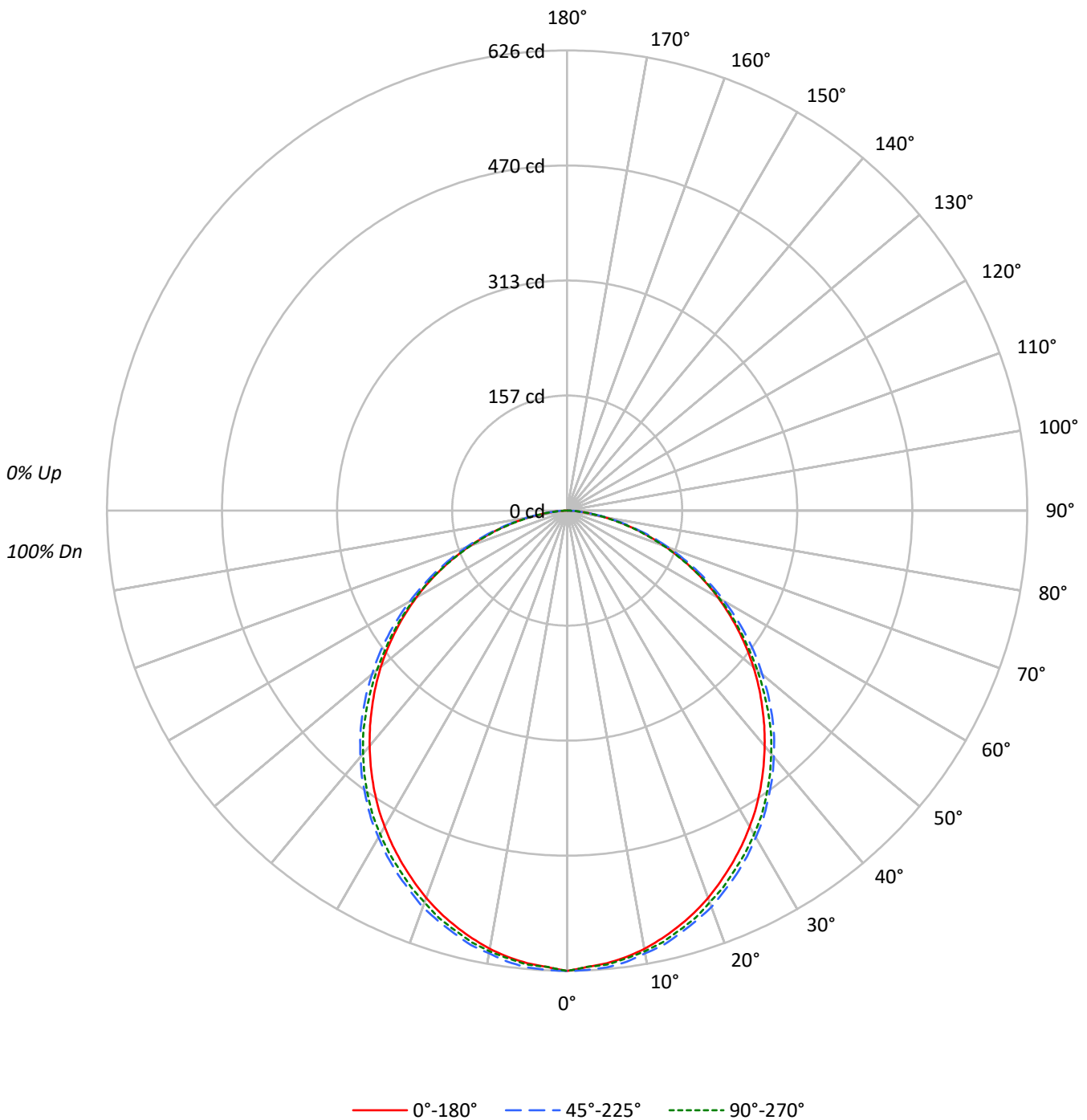
Lumens per Lamp: N/A
Luminaire Lumens: 1646.5 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3371	3371	3371
5°	3339	3371	3350
10°	3309	3342	3327
15°	3263	3316	3292
20°	3212	3288	3249
25°	3149	3241	3203
30°	3086	3190	3161
35°	3016	3135	3106
40°	2937	3073	3034
45°	2855	2999	2943
50°	2770	2903	2828
55°	2669	2793	2708
60°	2555	2661	2579
65°	2408	2500	2409
70°	2216	2305	2190
75°	1951	2040	1921
80°	1587	1655	1568
85°	1105	1179	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.6
10°-20°	167.1	10.2
20°-30°	249.3	15.1
30°-40°	295.4	17.9
40°-50°	298.9	18.2
50°-60°	261.0	15.9
60°-70°	190.8	11.6
70°-80°	101.5	6.2
80°-90°	23.5	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°	475.4	28.9
0°-40°	770.8	46.8
0°-60°	1330.8	80.8
0°-90°	1646.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1646.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	618	619	624	625	620	59
15°	586	590	595	599	591	165
25°	530	537	546	548	539	244
35°	459	466	477	481	473	287
45°	375	382	394	394	387	289
55°	284	290	298	293	289	254
65°	189	193	196	192	189	187
75°	94	96	98	94	92	100
85°	18	18	19	19	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.3	626.3	626.3	626.3	626.3
2.5°	621.4	623.4	625.5	626.4	621.3
5°	618.1	619.3	623.9	625.4	620.1
7.5°	612.8	614.5	619.0	619.7	614.6
10°	605.5	608.6	611.6	614.9	608.7
12.5°	596.1	600.4	605.5	606.0	601.3
15°	585.6	589.5	595.1	598.7	590.9
17.5°	573.9	577.7	584.8	585.5	580.8
20°	560.8	565.5	574.1	575.6	567.2
22.5°	545.9	552.2	559.4	560.8	554.6
25°	530.3	536.8	545.7	547.7	539.4
27.5°	514.0	520.2	530.2	531.7	524.7
30°	496.5	502.4	513.3	515.7	508.6
32.5°	478.7	484.6	496.7	498.8	491.9
35°	459.0	466.2	477.2	480.6	472.8
37.5°	438.9	445.9	458.4	461.4	453.1
40°	418.1	425.0	437.4	439.9	431.8
42.5°	396.9	403.8	416.9	417.3	410.7
45°	375.1	381.8	394.0	394.4	386.6
47.5°	353.1	359.8	370.8	369.5	362.2
50°	330.8	337.1	346.7	344.3	337.7
52.5°	307.7	313.9	322.9	318.9	312.7
55°	284.4	290.2	297.7	293.4	288.6
57.5°	261.0	266.8	272.6	268.2	264.1
60°	237.4	242.5	247.2	242.8	239.6
62.5°	213.4	217.7	221.9	217.6	214.6
65°	189.1	192.9	196.3	192.4	189.2
67.5°	165.0	168.2	171.3	167.3	164.0
70°	140.8	143.6	146.5	142.3	139.2
72.5°	117.0	119.5	122.0	118.0	115.3
75°	93.8	96.0	98.1	94.5	92.4
77.5°	71.7	73.5	75.0	72.7	70.7
80°	51.2	52.5	53.4	52.5	50.6
82.5°	32.9	33.9	34.3	34.3	33.0
85°	17.9	18.2	19.1	19.2	18.6
87.5°	6.9	7.4	7.6	8.2	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)