

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: P488911

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-40-120-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: P488911
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-24-2-INS-A12125-LD4-2LO-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

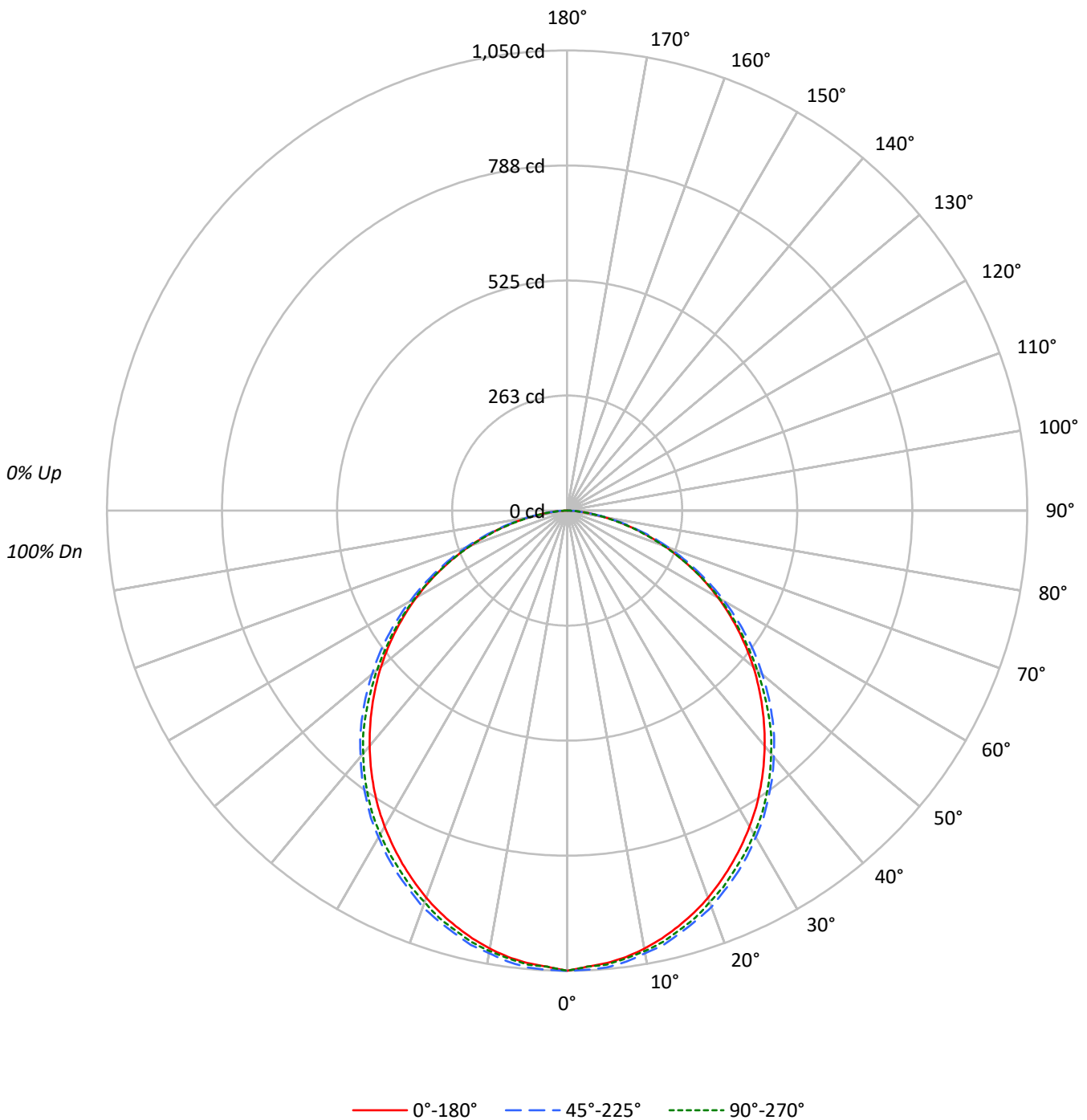
Lumens per Lamp: N/A
Luminaire Lumens: 2760.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

TEST NUMBER: P488911

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-40-120-EDD

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°	2826	2826	2826
5°	2800	2826	2808
10°	2774	2802	2789
15°	2735	2780	2760
20°	2693	2757	2723
25°	2640	2717	2686
30°	2587	2674	2650
35°	2529	2629	2604
40°	2463	2576	2544
45°	2394	2514	2467
50°	2322	2434	2370
55°	2237	2342	2270
60°	2142	2231	2162
65°	2019	2096	2020
70°	1858	1932	1837
75°	1635	1709	1611
80°	1330	1387	1314
85°	926	985	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.6
10°-20°	280.3	10.2
20°-30°	418.0	15.1
30°-40°	495.3	17.9
40°-50°	501.2	18.2
50°-60°	437.7	15.9
60°-70°	319.9	11.6
70°-80°	170.2	6.2
80°-90°	39.3	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°	797.2	28.9
0°-40°	1292.5	46.8
0°-60°	2231.4	80.8
0°-90°	2760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1036	1038	1046	1049	1040	98
15°	982	988	998	1004	991	277
25°	889	900	915	918	904	410
35°	770	782	800	806	793	481
45°	629	640	661	661	648	485
55°	477	486	499	492	484	426
65°	317	324	329	323	317	314
75°	157	161	164	158	155	167
85°	30	30	32	32	31	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1041.9	1045.3	1048.8	1050.3	1041.8
5°	1036.4	1038.4	1046.2	1048.6	1039.7
7.5°	1027.5	1030.4	1038.0	1039.1	1030.5
10°	1015.2	1020.5	1025.5	1031.0	1020.6
12.5°	999.6	1006.7	1015.2	1016.2	1008.3
15°	981.9	988.5	997.8	1003.8	990.8
17.5°	962.3	968.6	980.6	981.7	973.9
20°	940.3	948.1	962.6	965.1	951.0
22.5°	915.3	925.9	938.0	940.4	930.0
25°	889.2	900.1	915.0	918.4	904.5
27.5°	861.8	872.3	889.1	891.5	879.8
30°	832.5	842.3	860.7	864.8	852.8
32.5°	802.7	812.6	832.9	836.3	824.7
35°	769.7	781.7	800.2	805.8	792.8
37.5°	736.0	747.7	768.7	773.7	759.7
40°	701.1	712.7	733.4	737.5	724.1
42.5°	665.4	677.0	699.1	699.8	688.6
45°	629.0	640.2	660.7	661.3	648.2
47.5°	592.0	603.3	621.7	619.6	607.3
50°	554.6	565.3	581.4	577.2	566.2
52.5°	515.9	526.3	541.5	534.7	524.3
55°	476.9	486.5	499.2	492.0	483.9
57.5°	437.6	447.4	457.1	449.8	442.8
60°	398.0	406.6	414.6	407.1	401.8
62.5°	357.8	365.1	372.0	364.9	359.8
65°	317.1	323.5	329.2	322.6	317.3
67.5°	276.6	282.1	287.3	280.5	274.9
70°	236.1	240.8	245.6	238.6	233.5
72.5°	196.2	200.3	204.6	197.8	193.3
75°	157.3	160.9	164.4	158.4	154.9
77.5°	120.2	123.3	125.7	121.9	118.5
80°	85.8	88.1	89.5	88.0	84.8
82.5°	55.1	56.8	57.5	57.4	55.4
85°	30.0	30.5	31.9	32.3	31.2
87.5°	11.6	12.4	12.7	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)