

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: P488938

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-20-120-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: P488938
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-LD4-3LO-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

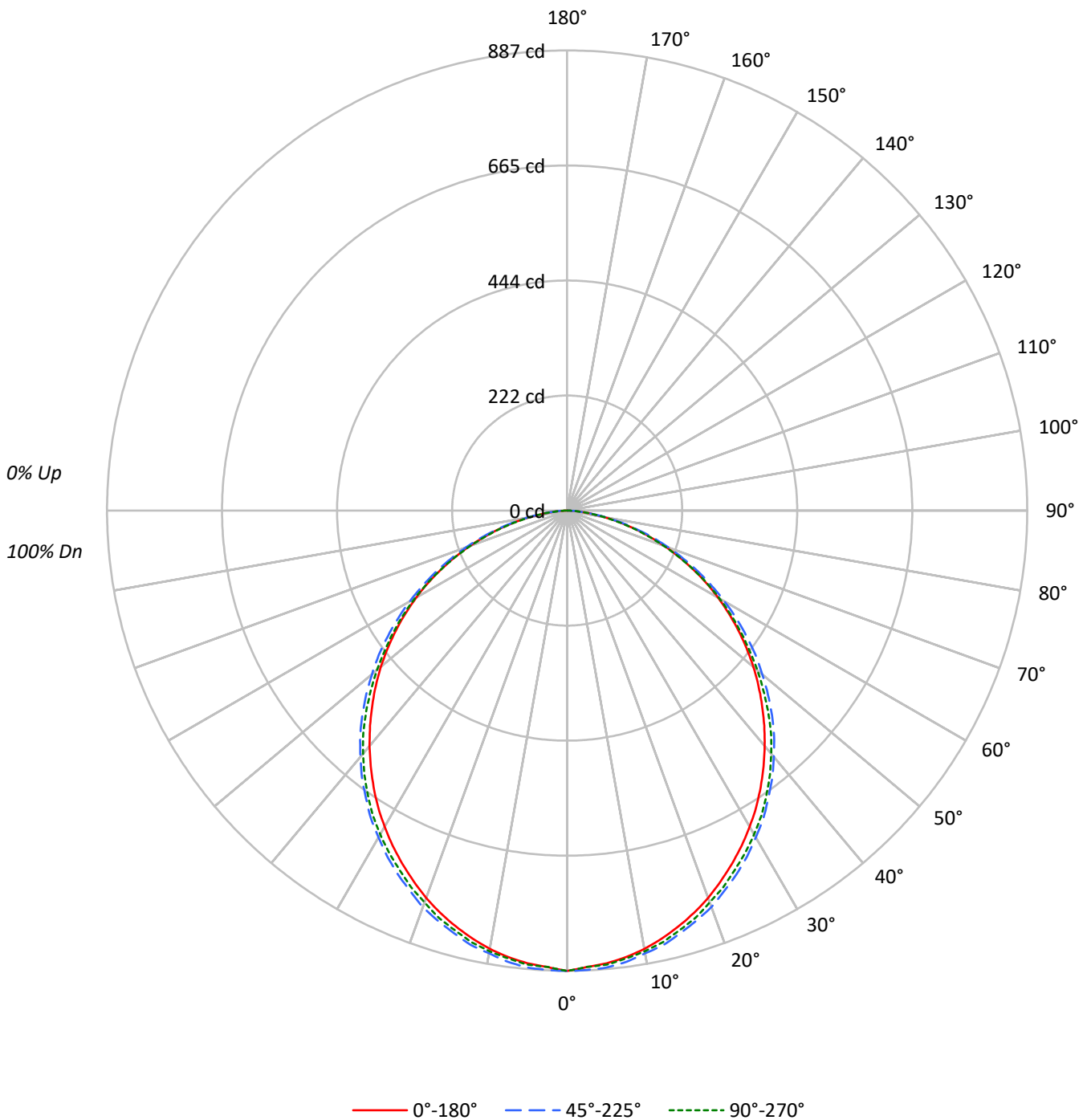
Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P488938

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488938

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-20-120-EDD-90

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°	2388	2388	2388
5°	2366	2388	2373
10°	2344	2368	2357
15°	2312	2349	2333
20°	2275	2329	2301
25°	2231	2296	2269
30°	2186	2260	2239
35°	2137	2221	2201
40°	2081	2177	2149
45°	2023	2125	2085
50°	1962	2057	2003
55°	1891	1979	1918
60°	1810	1885	1827
65°	1706	1771	1707
70°	1570	1633	1552
75°	1383	1445	1361
80°	1124	1172	1111
85°	781	834	812



TEST NUMBER: P488938

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.6
10°-20°	236.8	10.2
20°-30°	353.2	15.1
30°-40°	418.6	17.9
40°-50°	423.5	18.2
50°-60°	369.9	15.9
60°-70°	270.3	11.6
70°-80°	143.8	6.2
80°-90°	33.2	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°	673.6	28.9
0°-40°	1092.2	46.8
0°-60°	1885.6	80.8
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	876	878	884	886	879	83
15°	830	835	843	848	837	234
25°	751	761	773	776	764	346
35°	650	661	676	681	670	407
45°	532	541	558	559	548	410
55°	403	411	422	416	409	360
65°	268	273	278	273	268	265
75°	133	136	139	134	131	141
85°	25	26	27	27	26	32
90°	0	0	0	0	0	



TEST NUMBER: P488938

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.4	887.4	887.4	887.4	887.4
2.5°	880.5	883.3	886.3	887.6	880.4
5°	875.8	877.5	884.1	886.1	878.6
7.5°	868.3	870.7	877.1	878.1	870.8
10°	857.9	862.3	866.6	871.2	862.4
12.5°	844.7	850.7	857.9	858.7	852.1
15°	829.8	835.3	843.2	848.3	837.3
17.5°	813.1	818.5	828.7	829.6	822.9
20°	794.6	801.2	813.4	815.6	803.6
22.5°	773.5	782.5	792.6	794.7	785.9
25°	751.4	760.6	773.2	776.1	764.3
27.5°	728.3	737.1	751.3	753.3	743.4
30°	703.5	711.8	727.3	730.8	720.7
32.5°	678.3	686.7	703.9	706.7	696.9
35°	650.4	660.6	676.2	680.9	669.9
37.5°	621.9	631.8	649.6	653.8	642.0
40°	592.5	602.3	619.7	623.2	611.9
42.5°	562.3	572.1	590.8	591.3	581.9
45°	531.5	541.0	558.3	558.8	547.8
47.5°	500.3	509.8	525.3	523.6	513.2
50°	468.7	477.7	491.3	487.8	478.5
52.5°	435.9	444.7	457.6	451.8	443.0
55°	403.0	411.2	421.9	415.8	408.9
57.5°	369.8	378.1	386.3	380.1	374.2
60°	336.4	343.6	350.3	344.0	339.5
62.5°	302.3	308.5	314.3	308.3	304.1
65°	267.9	273.4	278.2	272.7	268.1
67.5°	233.7	238.4	242.8	237.1	232.3
70°	199.5	203.5	207.6	201.6	197.3
72.5°	165.8	169.3	172.9	167.2	163.4
75°	133.0	136.0	139.0	133.9	130.9
77.5°	101.6	104.2	106.2	103.0	100.1
80°	72.5	74.4	75.6	74.3	71.7
82.5°	46.6	48.0	48.6	48.5	46.8
85°	25.3	25.8	27.0	27.3	26.3
87.5°	9.8	10.4	10.7	11.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)