

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: P488876

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-50-120-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: P488876
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-LD4-1LO-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

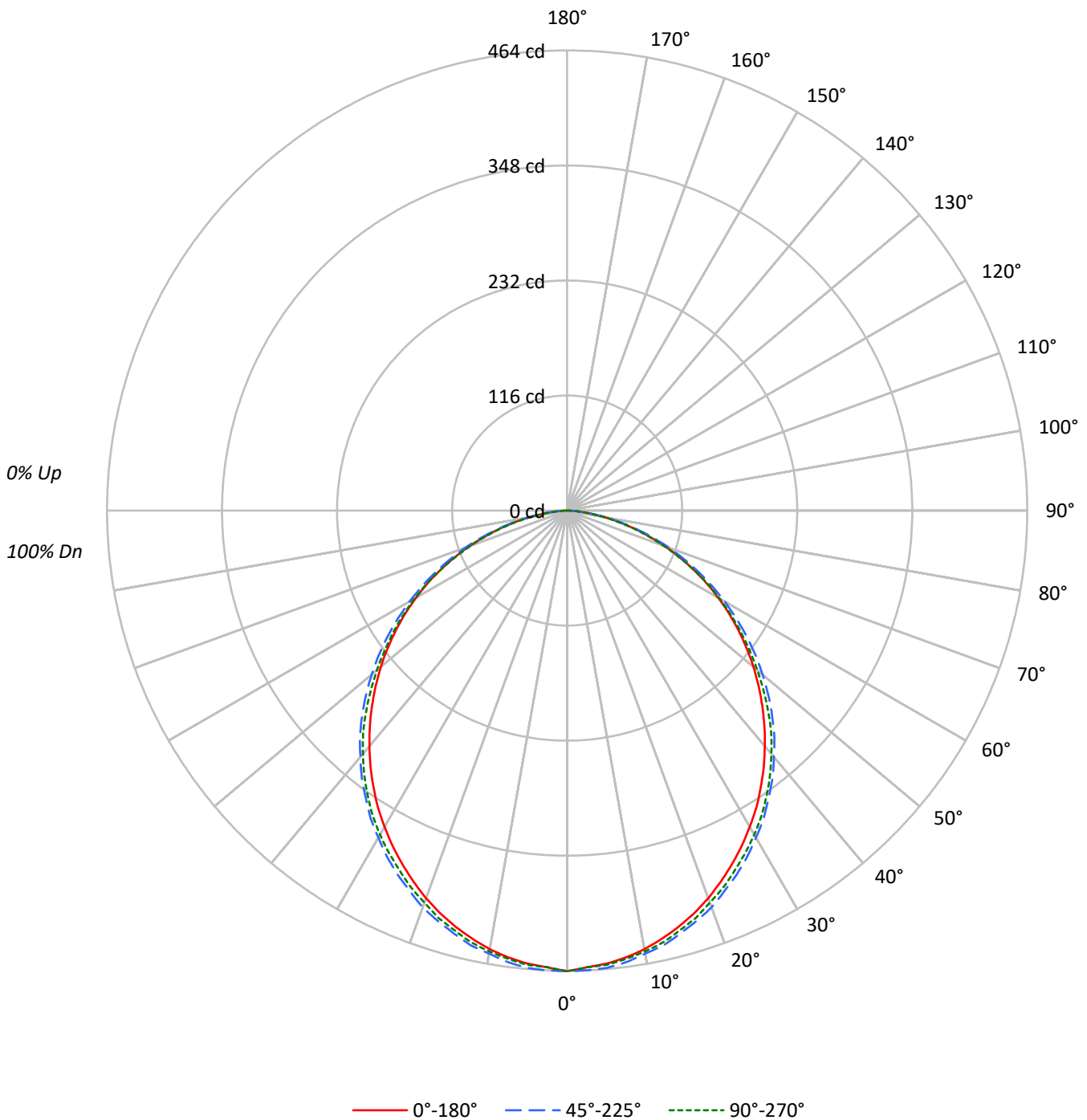
Lumens per Lamp: N/A
Luminaire Lumens: 1221.3 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P488876

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488876

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-50-120-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	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10																
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100																	
	1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85																
	2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71															
	3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60														
	4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51														
	5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45														
	6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39														
	7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35														
	8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31														
	9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28														
	10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1250	1250	1250
5°	1239	1250	1242
10°	1227	1239	1234
15°	1210	1230	1221
20°	1191	1219	1205
25°	1168	1202	1188
30°	1144	1183	1172
35°	1119	1163	1152
40°	1089	1140	1125
45°	1059	1112	1091
50°	1027	1077	1049
55°	990	1036	1004
60°	948	987	956
65°	893	927	894
70°	821	855	813
75°	724	756	712
80°	587	614	581
85°	411	435	426



TEST NUMBER: P488876

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	3.6
10°-20°	124.0	10.2
20°-30°	184.9	15.1
30°-40°	219.1	17.9
40°-50°	221.7	18.2
50°-60°	193.6	15.9
60°-70°	141.5	11.6
70°-80°	75.3	6.2
80°-90°	17.4	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°	352.6	28.9
0°-40°	571.8	46.8
0°-60°	987.1	80.8
0°-90°	1221.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	458	459	463	464	460	43
15°	434	437	441	444	438	122
25°	393	398	405	406	400	181
35°	340	346	354	356	351	213
45°	278	283	292	292	287	215
55°	211	215	221	218	214	189
65°	140	143	146	143	140	139
75°	70	71	73	70	68	74
85°	13	14	14	14	14	17
90°	0	0	0	0	0	



TEST NUMBER: P488876

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.5	464.5	464.5	464.5	464.5
2.5°	460.9	462.4	464.0	464.6	460.9
5°	458.5	459.4	462.8	463.9	459.9
7.5°	454.5	455.8	459.2	459.7	455.9
10°	449.1	451.4	453.6	456.1	451.5
12.5°	442.2	445.3	449.1	449.5	446.1
15°	434.4	437.3	441.4	444.1	438.3
17.5°	425.7	428.5	433.8	434.3	430.8
20°	415.9	419.4	425.8	426.9	420.7
22.5°	404.9	409.6	414.9	416.0	411.4
25°	393.3	398.2	404.8	406.3	400.1
27.5°	381.2	385.9	393.3	394.4	389.2
30°	368.3	372.6	380.8	382.6	377.3
32.5°	355.1	359.5	368.5	370.0	364.8
35°	340.5	345.8	354.0	356.5	350.7
37.5°	325.6	330.8	340.1	342.3	336.1
40°	310.1	315.3	324.4	326.3	320.3
42.5°	294.4	299.5	309.3	309.6	304.6
45°	278.2	283.2	292.3	292.5	286.8
47.5°	261.9	266.9	275.0	274.1	268.7
50°	245.3	250.1	257.2	255.4	250.5
52.5°	228.2	232.8	239.5	236.5	231.9
55°	211.0	215.2	220.8	217.7	214.1
57.5°	193.6	197.9	202.2	199.0	195.9
60°	176.1	179.9	183.4	180.1	177.7
62.5°	158.3	161.5	164.6	161.4	159.2
65°	140.3	143.1	145.6	142.7	140.4
67.5°	122.4	124.8	127.1	124.1	121.6
70°	104.4	106.5	108.7	105.6	103.3
72.5°	86.8	88.6	90.5	87.5	85.5
75°	69.6	71.2	72.7	70.1	68.5
77.5°	53.2	54.5	55.6	53.9	52.4
80°	37.9	39.0	39.6	38.9	37.5
82.5°	24.4	25.1	25.5	25.4	24.5
85°	13.3	13.5	14.1	14.3	13.8
87.5°	5.1	5.5	5.6	6.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)