

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: P488542

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-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: P488542
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-12-4-INS-A12125-LD4-1LO-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

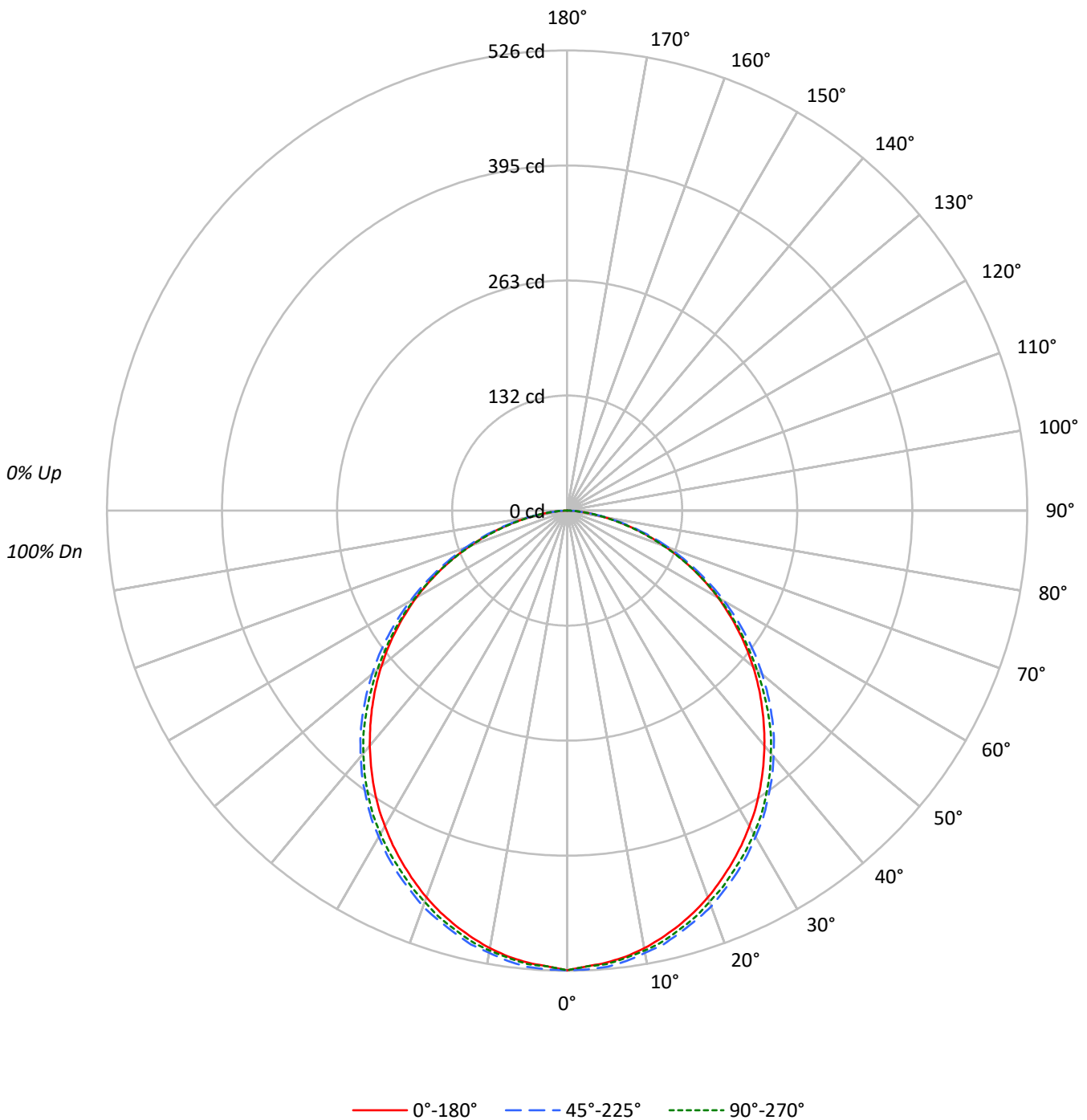
Lumens per Lamp: N/A
Luminaire Lumens: 1381.6 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P488542

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488542

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-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°	1414	1414	1414
5°	1401	1414	1405
10°	1388	1402	1395
15°	1369	1391	1381
20°	1347	1379	1363
25°	1321	1360	1344
30°	1294	1338	1326
35°	1265	1316	1303
40°	1233	1289	1273
45°	1198	1258	1235
50°	1162	1218	1186
55°	1120	1172	1136
60°	1072	1117	1082
65°	1011	1049	1011
70°	930	967	919
75°	818	856	806
80°	665	694	657
85°	463	494	482



TEST NUMBER: P488542

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.6
10°-20°	140.2	10.2
20°-30°	209.2	15.1
30°-40°	247.9	17.9
40°-50°	250.8	18.2
50°-60°	219.1	15.9
60°-70°	160.1	11.6
70°-80°	85.2	6.2
80°-90°	19.7	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°	398.9	28.9
0°-40°	646.8	46.8
0°-60°	1116.7	80.8
0°-90°	1381.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	519	520	524	525	520	49
15°	491	495	499	502	496	139
25°	445	450	458	460	453	205
35°	385	391	400	403	397	241
45°	315	320	331	331	324	243
55°	239	244	250	246	242	213
65°	159	162	165	162	159	157
75°	79	80	82	79	78	84
85°	15	15	16	16	16	19
90°	0	0	0	0	0	



TEST NUMBER: P488542

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	525.5	525.5	525.5	525.5	525.5
2.5°	521.4	523.1	524.9	525.6	521.4
5°	518.7	519.7	523.5	524.7	520.3
7.5°	514.2	515.7	519.4	520.0	515.7
10°	508.0	510.7	513.2	515.9	510.7
12.5°	500.2	503.8	508.0	508.5	504.6
15°	491.4	494.7	499.3	502.4	495.8
17.5°	481.5	484.7	490.7	491.3	487.3
20°	470.5	474.5	481.7	483.0	475.9
22.5°	458.1	463.4	469.4	470.6	465.4
25°	445.0	450.4	457.9	459.6	452.6
27.5°	431.3	436.5	444.9	446.1	440.3
30°	416.6	421.5	430.7	432.8	426.8
32.5°	401.7	406.6	416.8	418.5	412.7
35°	385.2	391.2	400.5	403.2	396.7
37.5°	368.3	374.2	384.7	387.2	380.2
40°	350.9	356.7	367.0	369.1	362.3
42.5°	333.0	338.8	349.9	350.2	344.6
45°	314.8	320.4	330.6	330.9	324.4
47.5°	296.3	301.9	311.1	310.1	303.9
50°	277.5	282.9	291.0	288.9	283.3
52.5°	258.2	263.4	271.0	267.6	262.4
55°	238.7	243.5	249.8	246.2	242.2
57.5°	219.0	223.9	228.8	225.1	221.6
60°	199.2	203.5	207.5	203.7	201.1
62.5°	179.0	182.7	186.2	182.6	180.1
65°	158.7	161.9	164.7	161.5	158.8
67.5°	138.4	141.2	143.8	140.4	137.6
70°	118.2	120.5	122.9	119.4	116.8
72.5°	98.2	100.3	102.4	99.0	96.7
75°	78.7	80.5	82.3	79.3	77.5
77.5°	60.2	61.7	62.9	61.0	59.3
80°	42.9	44.1	44.8	44.0	42.4
82.5°	27.6	28.4	28.8	28.7	27.7
85°	15.0	15.3	16.0	16.2	15.6
87.5°	5.8	6.2	6.4	6.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)