

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: P488490

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-40-120-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: P488490
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
 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-P12125-LD4-1STD-40-120-EDD-90
 Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
 Light Source: -
 Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

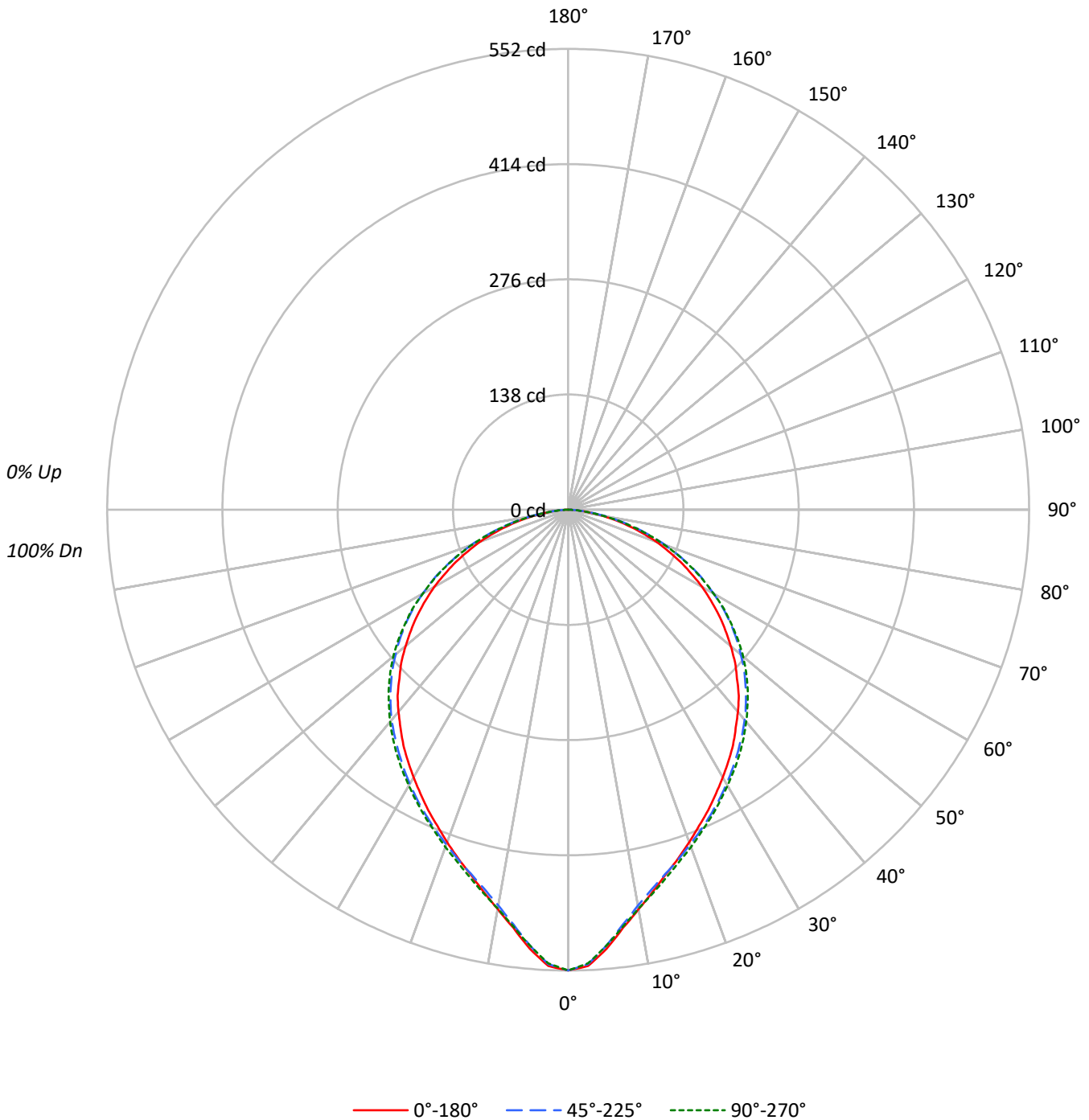
Lumens per Lamp: N/A
 Luminaire Lumens: 1282.0 lumens
 Efficiency: N/A
 Efficacy: 77.2 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
 Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
 CIE Type: Direct

Input Watts (W): 16.6
 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

TEST NUMBER: P488490

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488490

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-40-120-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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2970	2970	2970
5°	2852	2832	2832
10°	2654	2630	2651
15°	2519	2514	2539
20°	2427	2444	2463
25°	2357	2396	2409
30°	2300	2357	2371
35°	2261	2327	2350
40°	2221	2311	2330
45°	2175	2288	2315
50°	2127	2260	2290
55°	2068	2227	2236
60°	1993	2166	2161
65°	1890	2083	2069
70°	1764	1942	1918
75°	1557	1722	1703
80°	1265	1401	1333
85°	877	895	858



TEST NUMBER: P488490

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	3.8
10°-20°	127.7	10.0
20°-30°	185.8	14.5
30°-40°	221.1	17.2
40°-50°	229.5	17.9
50°-60°	207.9	16.2
60°-70°	156.9	12.2
70°-80°	85.5	6.7
80°-90°	18.8	1.5
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°	362.3	28.3
0°-40°	583.3	45.5
0°-60°	1020.8	79.6
0°-90°	1282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	528	527	524	524	524	49
15°	452	451	451	454	456	128
25°	397	400	403	407	406	183
35°	344	348	354	360	358	215
45°	286	291	301	304	304	221
55°	220	226	237	239	238	197
65°	148	153	164	163	162	147
75°	75	78	83	83	82	80
85°	14	14	14	14	14	18
90°	0	0	0	0	0	



TEST NUMBER: P488490

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.9	551.9	551.9	551.9	551.9
2.5°	547.1	546.5	544.7	544.1	543.9
5°	527.9	526.7	524.2	523.9	524.2
7.5°	505.0	503.6	501.2	502.1	503.4
10°	485.7	482.3	481.3	482.7	485.0
12.5°	468.5	465.7	464.9	468.5	470.1
15°	452.1	451.0	451.2	454.3	455.7
17.5°	437.9	437.2	439.0	441.3	442.0
20°	423.7	425.0	426.7	429.2	430.0
22.5°	409.7	412.3	415.1	418.4	417.3
25°	396.9	400.2	403.4	406.7	405.7
27.5°	383.3	387.1	391.5	395.1	393.7
30°	370.1	375.0	379.3	383.7	381.6
32.5°	357.2	361.7	366.8	372.2	369.9
35°	344.1	348.2	354.2	359.5	357.7
37.5°	329.6	334.7	341.5	346.2	344.9
40°	316.1	320.8	328.9	332.0	331.7
42.5°	302.4	306.3	314.9	318.3	317.7
45°	285.8	290.9	300.6	304.0	304.2
47.5°	271.0	275.3	285.8	288.4	288.9
50°	254.0	259.4	269.9	273.1	273.5
52.5°	237.3	243.1	253.9	256.1	256.5
55°	220.4	225.6	237.3	239.0	238.3
57.5°	202.6	208.9	219.7	220.5	221.2
60°	185.2	190.7	201.2	202.3	200.8
62.5°	166.3	172.0	182.7	183.0	181.8
65°	148.4	152.7	163.6	163.3	162.5
67.5°	129.6	134.9	142.9	143.1	142.5
70°	112.1	115.7	123.4	123.6	121.9
72.5°	93.2	97.1	103.3	102.5	102.1
75°	74.9	77.9	82.8	83.3	81.9
77.5°	58.1	60.3	63.9	63.4	61.9
80°	40.8	42.6	45.2	44.7	43.0
82.5°	26.1	27.2	28.8	28.1	27.4
85°	14.2	14.3	14.5	14.3	13.9
87.5°	5.2	5.4	5.4	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)