

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: P488485

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-27-120-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: P488485
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-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

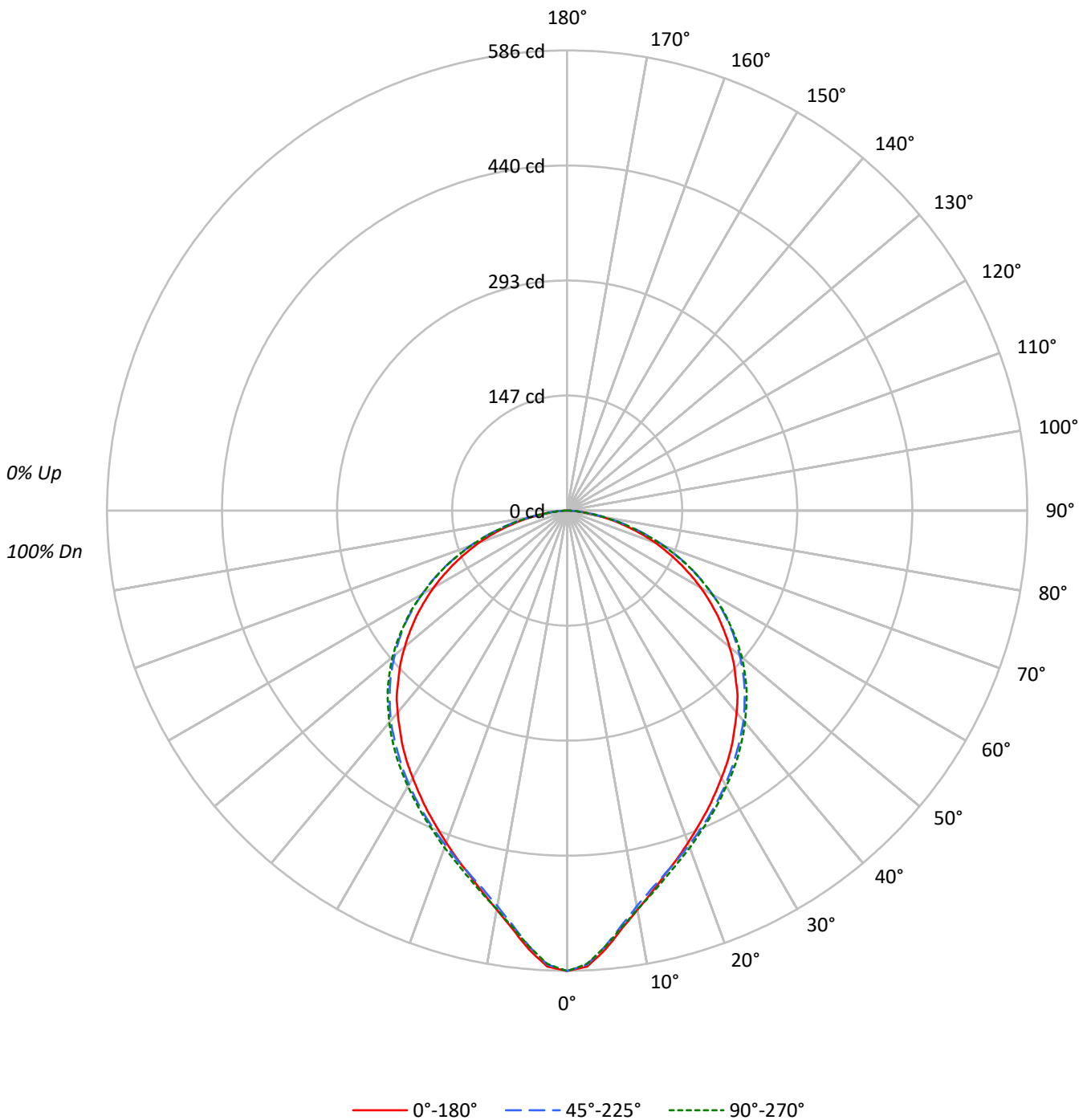
Lumens per Lamp: N/A
Luminaire Lumens: 1361.9 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P488485

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-27-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488485

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-27-120-EDD

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°	3155	3155	3155
5°	3030	3009	3009
10°	2820	2794	2816
15°	2676	2671	2697
20°	2578	2596	2616
25°	2504	2545	2559
30°	2444	2504	2519
35°	2401	2472	2497
40°	2359	2455	2475
45°	2311	2431	2460
50°	2260	2400	2432
55°	2197	2365	2376
60°	2118	2301	2296
65°	2007	2213	2198
70°	1874	2063	2038
75°	1655	1828	1809
80°	1345	1491	1416
85°	932	951	914



TEST NUMBER: P488485

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	3.8
10°-20°	135.7	10.0
20°-30°	197.3	14.5
30°-40°	234.8	17.2
40°-50°	243.8	17.9
50°-60°	220.9	16.2
60°-70°	166.7	12.2
70°-80°	90.8	6.7
80°-90°	20.0	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°	384.8	28.3
0°-40°	619.7	45.5
0°-60°	1084.4	79.6
0°-90°	1361.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	561	560	557	557	557	52
15°	480	479	479	483	484	136
25°	422	425	428	432	431	194
35°	366	370	376	382	380	229
45°	304	309	319	323	323	235
55°	234	240	252	254	253	209
65°	158	162	174	174	173	156
75°	80	83	88	88	87	85
85°	15	15	15	15	15	19
90°	0	0	0	0	0	



TEST NUMBER: P488485

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.3	586.3	586.3	586.3	586.3
2.5°	581.2	580.6	578.7	578.0	577.8
5°	560.8	559.5	556.9	556.6	556.9
7.5°	536.5	535.0	532.4	533.4	534.7
10°	516.0	512.3	511.3	512.8	515.3
12.5°	497.7	494.7	493.9	497.7	499.4
15°	480.2	479.1	479.4	482.6	484.1
17.5°	465.2	464.4	466.3	468.8	469.6
20°	450.1	451.5	453.3	455.9	456.8
22.5°	435.3	438.0	441.0	444.5	443.3
25°	421.6	425.2	428.5	432.0	431.0
27.5°	407.1	411.2	415.9	419.7	418.3
30°	393.2	398.3	402.9	407.6	405.4
32.5°	379.5	384.3	389.7	395.4	392.9
35°	365.5	369.9	376.2	381.9	380.0
37.5°	350.2	355.6	362.7	367.7	366.4
40°	335.8	340.8	349.4	352.6	352.3
42.5°	321.3	325.4	334.5	338.1	337.6
45°	303.6	309.0	319.4	322.9	323.2
47.5°	287.9	292.4	303.6	306.3	306.9
50°	269.9	275.6	286.7	290.1	290.5
52.5°	252.1	258.3	269.7	272.1	272.5
55°	234.1	239.7	252.1	253.9	253.2
57.5°	215.2	222.0	233.4	234.3	235.0
60°	196.8	202.6	213.8	214.9	213.3
62.5°	176.7	182.7	194.1	194.4	193.1
65°	157.6	162.2	173.8	173.5	172.6
67.5°	137.7	143.3	151.8	152.1	151.3
70°	119.1	122.9	131.1	131.3	129.5
72.5°	99.0	103.1	109.7	108.9	108.4
75°	79.6	82.8	87.9	88.5	87.0
77.5°	61.7	64.0	67.8	67.4	65.8
80°	43.4	45.3	48.1	47.5	45.7
82.5°	27.7	28.9	30.6	29.9	29.2
85°	15.1	15.2	15.4	15.2	14.8
87.5°	5.6	5.7	5.7	5.6	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)