

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: P488488

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-35-120-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: P488488
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-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

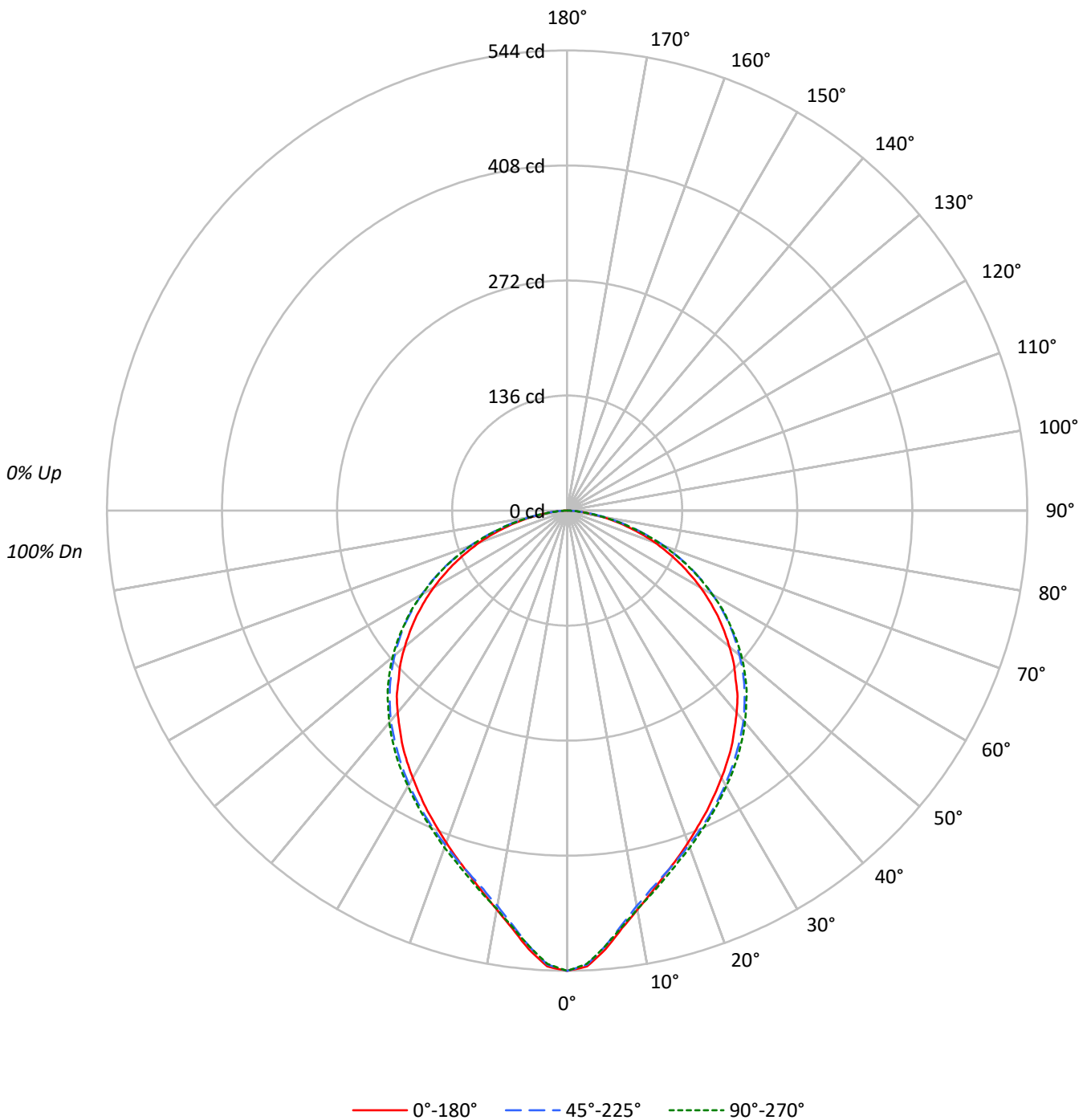
Lumens per Lamp: N/A
Luminaire Lumens: 1264.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P488488

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1STD-35-120-EDD-90

Luminous Intensity Polar Plot





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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°	2929	2929	2929
5°	2812	2792	2792
10°	2617	2593	2613
15°	2483	2479	2503
20°	2392	2410	2428
25°	2324	2362	2375
30°	2268	2324	2338
35°	2229	2294	2317
40°	2190	2278	2297
45°	2144	2256	2283
50°	2097	2228	2257
55°	2039	2196	2205
60°	1965	2136	2131
65°	1863	2054	2040
70°	1739	1915	1891
75°	1535	1697	1680
80°	1246	1382	1314
85°	865	883	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.8
10°-20°	125.9	10.0
20°-30°	183.2	14.5
30°-40°	218.0	17.2
40°-50°	226.3	17.9
50°-60°	205.0	16.2
60°-70°	154.7	12.2
70°-80°	84.3	6.7
80°-90°	18.5	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°	357.2	28.3
0°-40°	575.1	45.5
0°-60°	1006.5	79.6
0°-90°	1264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	520	519	517	517	517	48
15°	446	445	445	448	449	126
25°	391	395	398	401	400	180
35°	339	343	349	354	353	212
45°	282	287	296	300	300	218
55°	217	222	234	236	235	194
65°	146	150	161	161	160	145
75°	74	77	82	82	81	79
85°	14	14	14	14	14	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.2	544.2	544.2	544.2	544.2
2.5°	539.4	538.9	537.1	536.4	536.3
5°	520.5	519.3	516.8	516.6	516.8
7.5°	497.9	496.6	494.1	495.1	496.3
10°	478.9	475.5	474.5	475.9	478.2
12.5°	461.9	459.2	458.4	461.9	463.5
15°	445.7	444.6	444.9	447.9	449.3
17.5°	431.7	431.0	432.8	435.1	435.8
20°	417.7	419.1	420.7	423.2	424.0
22.5°	404.0	406.6	409.3	412.5	411.5
25°	391.3	394.6	397.7	401.0	400.0
27.5°	377.9	381.7	386.0	389.6	388.2
30°	365.0	369.7	373.9	378.3	376.2
32.5°	352.2	356.7	361.7	367.0	364.7
35°	339.3	343.3	349.2	354.5	352.7
37.5°	325.0	330.0	336.7	341.3	340.1
40°	311.7	316.3	324.3	327.3	327.0
42.5°	298.2	302.0	310.4	313.8	313.3
45°	281.7	286.8	296.4	299.7	300.0
47.5°	267.2	271.4	281.7	284.3	284.9
50°	250.5	255.8	266.1	269.2	269.6
52.5°	234.0	239.7	250.3	252.5	252.9
55°	217.3	222.4	234.0	235.6	235.0
57.5°	199.7	206.0	216.6	217.4	218.1
60°	182.6	188.1	198.4	199.5	198.0
62.5°	164.0	169.6	180.2	180.4	179.2
65°	146.3	150.5	161.3	161.0	160.2
67.5°	127.8	133.0	140.9	141.1	140.5
70°	110.5	114.1	121.7	121.8	120.2
72.5°	91.9	95.7	101.8	101.0	100.6
75°	73.8	76.8	81.6	82.1	80.8
77.5°	57.2	59.4	63.0	62.6	61.1
80°	40.2	42.0	44.6	44.1	42.4
82.5°	25.7	26.8	28.4	27.7	27.1
85°	14.0	14.1	14.3	14.1	13.7
87.5°	5.2	5.3	5.3	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)