

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: P488333

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-35-120-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: P488333
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-12-2-INS-A12125-LD4-1LO-35-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

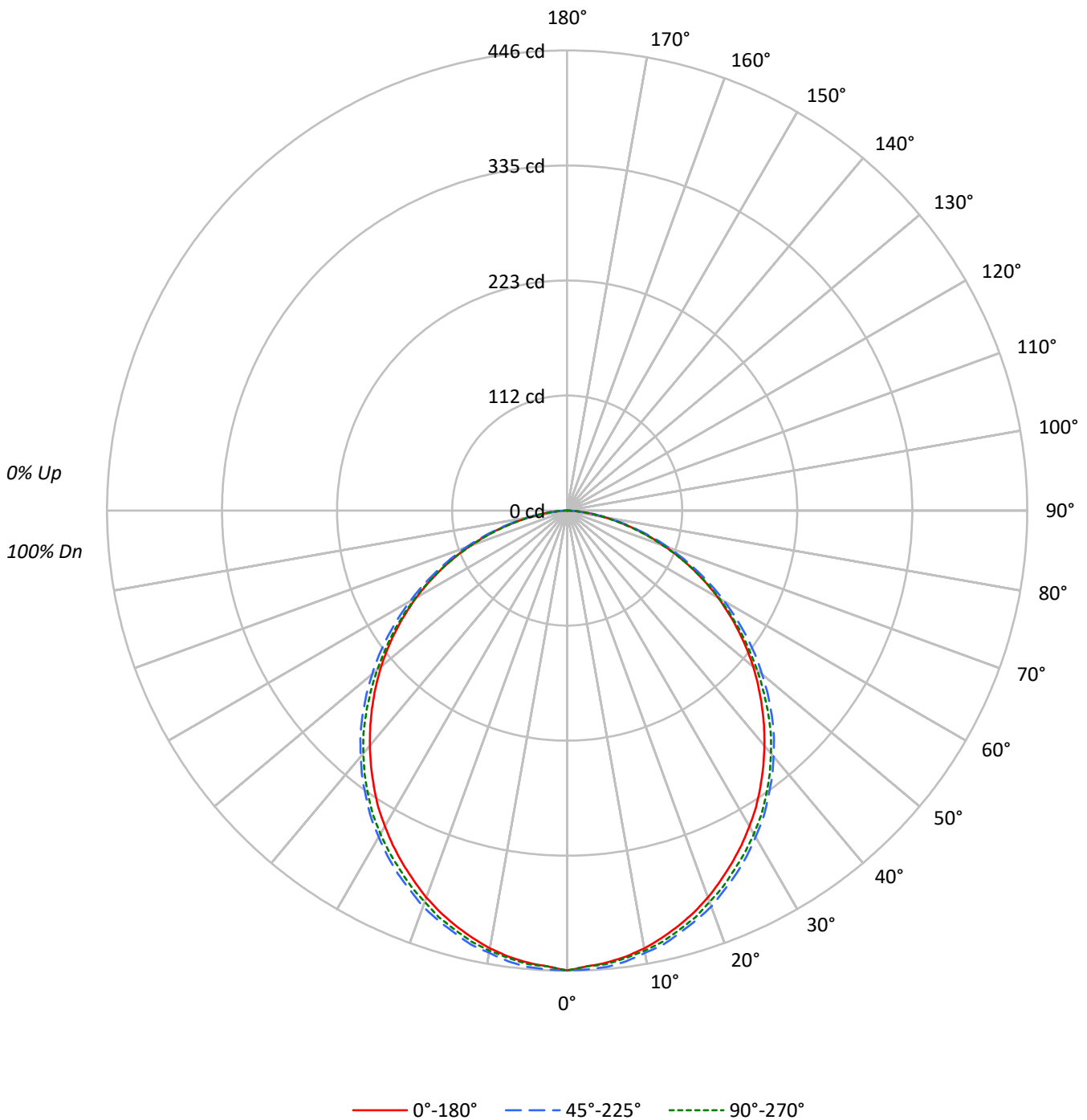
Lumens per Lamp: N/A
Luminaire Lumens: 1171.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P488333

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-1LO-35-120-EDD

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	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°	2398	2398	2398
5°	2376	2399	2384
10°	2354	2378	2367
15°	2322	2359	2343
20°	2285	2340	2312
25°	2241	2306	2279
30°	2196	2270	2249
35°	2146	2231	2210
40°	2090	2186	2159
45°	2031	2134	2094
50°	1971	2066	2012
55°	1899	1988	1927
60°	1818	1893	1835
65°	1714	1779	1714
70°	1577	1640	1559
75°	1389	1451	1366
80°	1128	1178	1116
85°	784	840	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	3.6
10°-20°	118.9	10.2
20°-30°	177.4	15.1
30°-40°	210.2	17.9
40°-50°	212.7	18.2
50°-60°	185.8	15.9
60°-70°	135.7	11.6
70°-80°	72.2	6.2
80°-90°	16.7	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°	338.3	28.9
0°-40°	548.5	46.8
0°-60°	946.9	80.8
0°-90°	1171.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	440	441	444	445	441	42
15°	417	420	423	426	420	117
25°	377	382	388	390	384	174
35°	327	332	340	342	336	204
45°	267	272	280	281	275	206
55°	202	206	212	209	205	181
65°	135	137	140	137	135	133
75°	67	68	70	67	66	71
85°	13	13	14	14	13	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	445.6	445.6	445.6	445.6	445.6
2.5°	442.2	443.6	445.1	445.7	442.1
5°	439.8	440.7	444.0	445.0	441.2
7.5°	436.0	437.3	440.5	440.9	437.3
10°	430.8	433.1	435.2	437.5	433.1
12.5°	424.2	427.2	430.8	431.2	427.9
15°	416.7	419.5	423.4	426.0	420.5
17.5°	408.4	411.0	416.2	416.6	413.3
20°	399.0	402.4	408.5	409.6	403.6
22.5°	388.4	392.9	398.0	399.1	394.7
25°	377.3	382.0	388.3	389.7	383.8
27.5°	365.7	370.2	377.3	378.3	373.3
30°	353.3	357.5	365.3	367.0	361.9
32.5°	340.7	344.8	353.5	354.9	350.0
35°	326.6	331.7	339.6	342.0	336.4
37.5°	312.3	317.3	326.2	328.4	322.4
40°	297.5	302.4	311.2	313.0	307.3
42.5°	282.4	287.3	296.7	297.0	292.2
45°	266.9	271.7	280.4	280.6	275.1
47.5°	251.2	256.0	263.8	262.9	257.7
50°	235.4	239.9	246.7	245.0	240.3
52.5°	218.9	223.3	229.8	226.9	222.5
55°	202.4	206.5	211.9	208.8	205.4
57.5°	185.7	189.9	194.0	190.9	187.9
60°	168.9	172.5	175.9	172.8	170.5
62.5°	151.8	154.9	157.9	154.8	152.7
65°	134.6	137.3	139.7	136.9	134.6
67.5°	117.4	119.7	121.9	119.0	116.7
70°	100.2	102.2	104.2	101.3	99.1
72.5°	83.2	85.0	86.8	83.9	82.0
75°	66.8	68.3	69.8	67.2	65.7
77.5°	51.0	52.3	53.3	51.7	50.3
80°	36.4	37.4	38.0	37.3	36.0
82.5°	23.4	24.1	24.4	24.4	23.5
85°	12.7	13.0	13.6	13.7	13.2
87.5°	4.9	5.2	5.4	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)