

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: P488344

Luminaire Tested: **CLM-12-2-INS-A12125-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: P488344
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-LD4-1STD-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

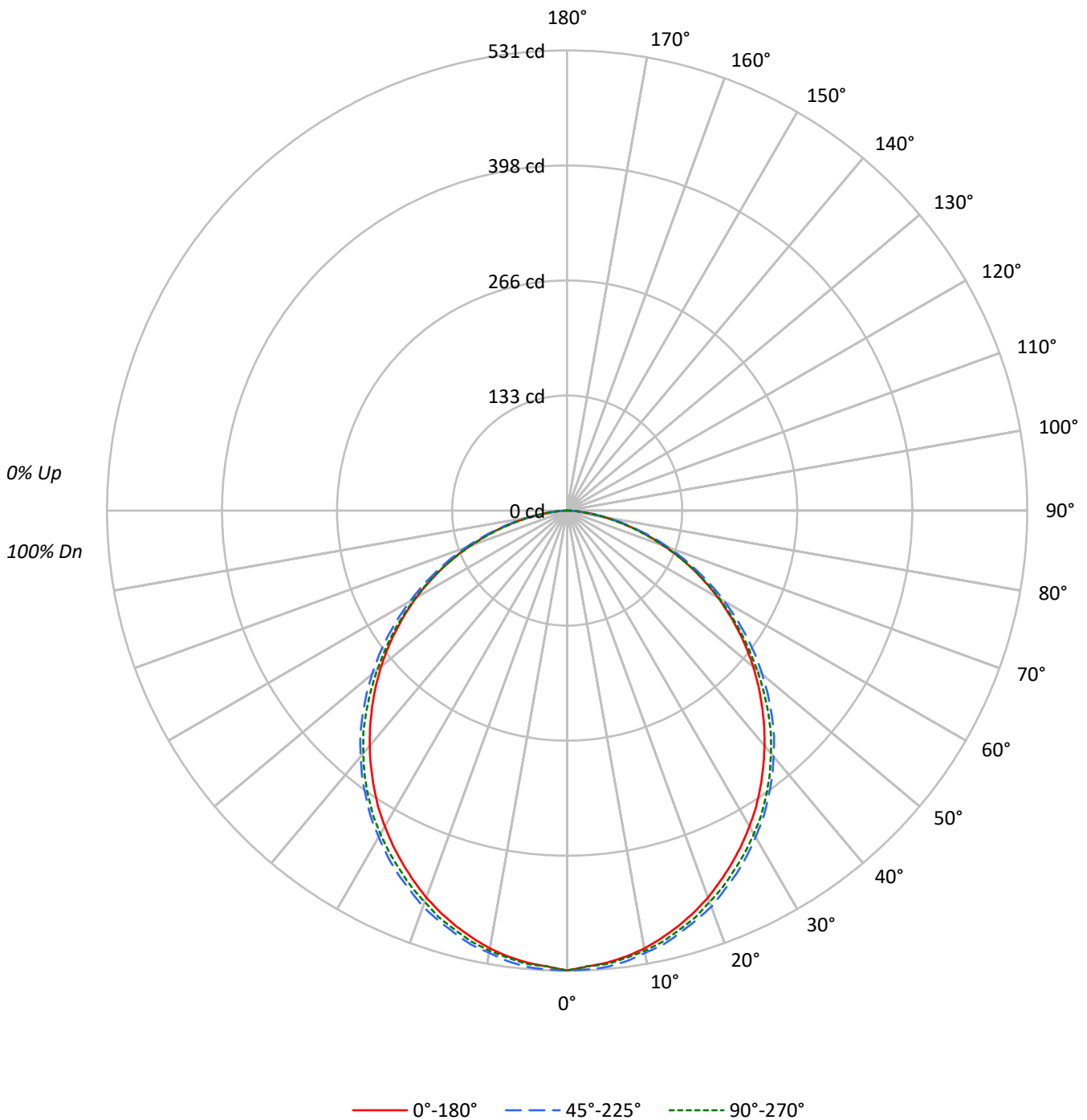
Lumens per Lamp: N/A
Luminaire Lumens: 1395.1 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	2856	2856	2856
5°	2829	2856	2838
10°	2804	2832	2818
15°	2765	2809	2790
20°	2721	2786	2753
25°	2668	2746	2714
30°	2614	2703	2678
35°	2555	2657	2632
40°	2489	2604	2571
45°	2419	2541	2493
50°	2347	2460	2395
55°	2261	2367	2294
60°	2165	2255	2185
65°	2040	2119	2041
70°	1877	1953	1857
75°	1653	1728	1628
80°	1342	1401	1327
85°	932	994	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	3.6
10°-20°	141.6	10.2
20°-30°	211.2	15.1
30°-40°	250.3	17.9
40°-50°	253.3	18.2
50°-60°	221.2	15.9
60°-70°	161.6	11.6
70°-80°	86.0	6.2
80°-90°	19.9	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°	402.8	28.9
0°-40°	653.1	46.8
0°-60°	1127.6	80.8
0°-90°	1395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	524	525	529	530	525	50
15°	496	500	504	507	501	140
25°	449	455	462	464	457	207
35°	389	395	404	407	401	243
45°	318	324	334	334	328	245
55°	241	246	252	249	244	215
65°	160	164	166	163	160	159
75°	80	81	83	80	78	85
85°	15	15	16	16	16	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.6	530.6	530.6	530.6	530.6
2.5°	526.5	528.2	530.0	530.8	526.4
5°	523.7	524.7	528.7	529.9	525.4
7.5°	519.2	520.7	524.5	525.1	520.7
10°	513.0	515.7	518.2	521.0	515.7
12.5°	505.1	508.7	513.0	513.5	509.5
15°	496.2	499.5	504.2	507.3	500.7
17.5°	486.3	489.5	495.5	496.1	492.1
20°	475.1	479.1	486.4	487.7	480.6
22.5°	462.5	467.9	474.0	475.2	469.9
25°	449.3	454.8	462.4	464.1	457.1
27.5°	435.5	440.8	449.3	450.5	444.6
30°	420.7	425.7	434.9	437.0	431.0
32.5°	405.6	410.6	420.9	422.6	416.8
35°	388.9	395.0	404.4	407.2	400.6
37.5°	371.9	377.8	388.4	391.0	383.9
40°	354.3	360.1	370.6	372.7	365.9
42.5°	336.3	342.1	353.3	353.6	348.0
45°	317.8	323.5	333.9	334.2	327.6
47.5°	299.2	304.9	314.1	313.1	306.9
50°	280.3	285.7	293.8	291.7	286.1
52.5°	260.7	265.9	273.6	270.2	264.9
55°	241.0	245.9	252.3	248.6	244.5
57.5°	221.1	226.1	231.0	227.3	223.7
60°	201.1	205.4	209.5	205.7	203.0
62.5°	180.8	184.5	188.0	184.4	181.8
65°	160.2	163.5	166.4	163.0	160.3
67.5°	139.8	142.5	145.2	141.8	138.9
70°	119.3	121.7	124.1	120.6	118.0
72.5°	99.1	101.2	103.4	100.0	97.7
75°	79.5	81.3	83.1	80.1	78.3
77.5°	60.8	62.3	63.5	61.6	59.9
80°	43.3	44.5	45.2	44.5	42.8
82.5°	27.9	28.7	29.1	29.0	28.0
85°	15.1	15.4	16.1	16.3	15.8
87.5°	5.9	6.2	6.4	6.9	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)