

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: P488363

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-20-120-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: P488363
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-LD4-2LO-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

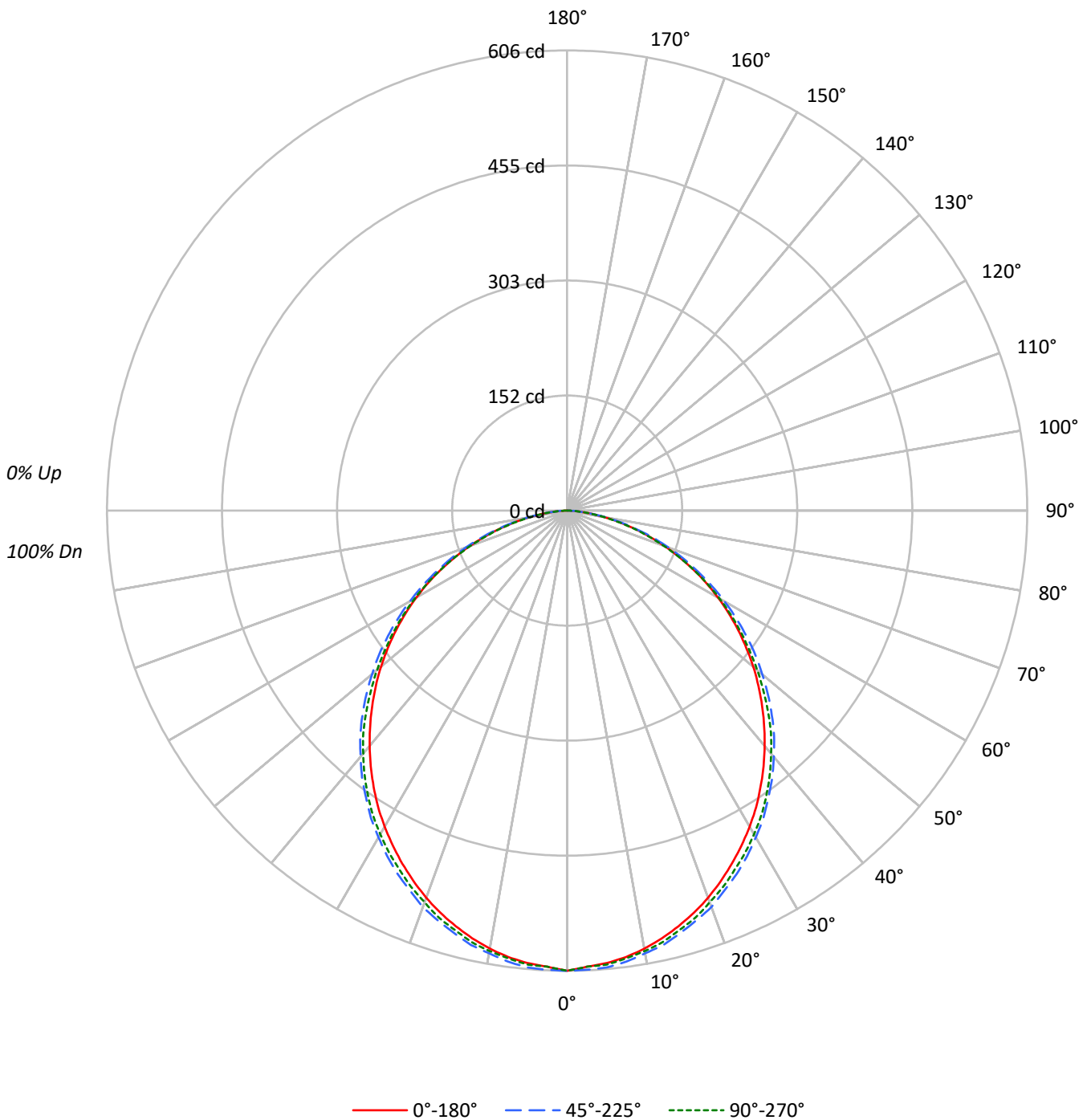
Lumens per Lamp: N/A
Luminaire Lumens: 1593.4 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	3262	3262	3262
5°	3232	3262	3242
10°	3202	3235	3219
15°	3158	3209	3186
20°	3108	3182	3144
25°	3048	3136	3100
30°	2986	3087	3059
35°	2918	3034	3007
40°	2843	2974	2936
45°	2763	2902	2847
50°	2680	2810	2736
55°	2583	2703	2621
60°	2472	2576	2496
65°	2330	2420	2332
70°	2145	2231	2121
75°	1888	1973	1859
80°	1534	1602	1516
85°	1068	1136	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.6
10°-20°	161.8	10.2
20°-30°	241.2	15.1
30°-40°	285.9	17.9
40°-50°	289.3	18.2
50°-60°	252.6	15.9
60°-70°	184.6	11.6
70°-80°	98.2	6.2
80°-90°	22.7	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°	460.1	28.9
0°-40°	746.0	46.8
0°-60°	1287.9	80.8
0°-90°	1593.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	598	599	604	605	600	57
15°	567	570	576	579	572	160
25°	513	520	528	530	522	236
35°	444	451	462	465	458	278
45°	363	370	381	382	374	280
55°	275	281	288	284	279	246
65°	183	187	190	186	183	181
75°	91	93	95	91	89	97
85°	17	18	18	19	18	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.1	606.1	606.1	606.1	606.1
2.5°	601.3	603.3	605.3	606.2	601.3
5°	598.2	599.3	603.8	605.2	600.1
7.5°	593.0	594.7	599.1	599.7	594.8
10°	585.9	589.0	591.9	595.0	589.0
12.5°	576.9	581.0	585.9	586.5	582.0
15°	566.7	570.5	575.9	579.4	571.8
17.5°	555.4	559.0	566.0	566.6	562.1
20°	542.7	547.2	555.6	557.0	548.9
22.5°	528.3	534.4	541.3	542.7	536.7
25°	513.2	519.5	528.1	530.0	522.0
27.5°	497.4	503.5	513.1	514.5	507.8
30°	480.5	486.2	496.8	499.1	492.2
32.5°	463.3	469.0	480.7	482.7	476.0
35°	444.2	451.2	461.8	465.1	457.6
37.5°	424.8	431.5	443.7	446.6	438.5
40°	404.6	411.3	423.3	425.7	417.9
42.5°	384.1	390.7	403.5	403.9	397.4
45°	363.0	369.5	381.3	381.7	374.1
47.5°	341.7	348.2	358.8	357.6	350.5
50°	320.1	326.3	335.6	333.2	326.8
52.5°	297.7	303.7	312.5	308.6	302.6
55°	275.3	280.8	288.1	284.0	279.3
57.5°	252.6	258.2	263.8	259.6	255.6
60°	229.7	234.6	239.3	235.0	231.9
62.5°	206.5	210.7	214.7	210.6	207.7
65°	183.0	186.7	190.0	186.2	183.1
67.5°	159.6	162.8	165.8	161.9	158.7
70°	136.3	139.0	141.8	137.7	134.8
72.5°	113.2	115.6	118.1	114.2	111.6
75°	90.8	92.9	94.9	91.4	89.4
77.5°	69.4	71.2	72.6	70.3	68.4
80°	49.5	50.8	51.7	50.8	48.9
82.5°	31.8	32.8	33.2	33.2	32.0
85°	17.3	17.6	18.4	18.6	18.0
87.5°	6.7	7.1	7.3	7.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)