

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: P488314

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-20-120-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: P488314
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-LD4-1HI-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

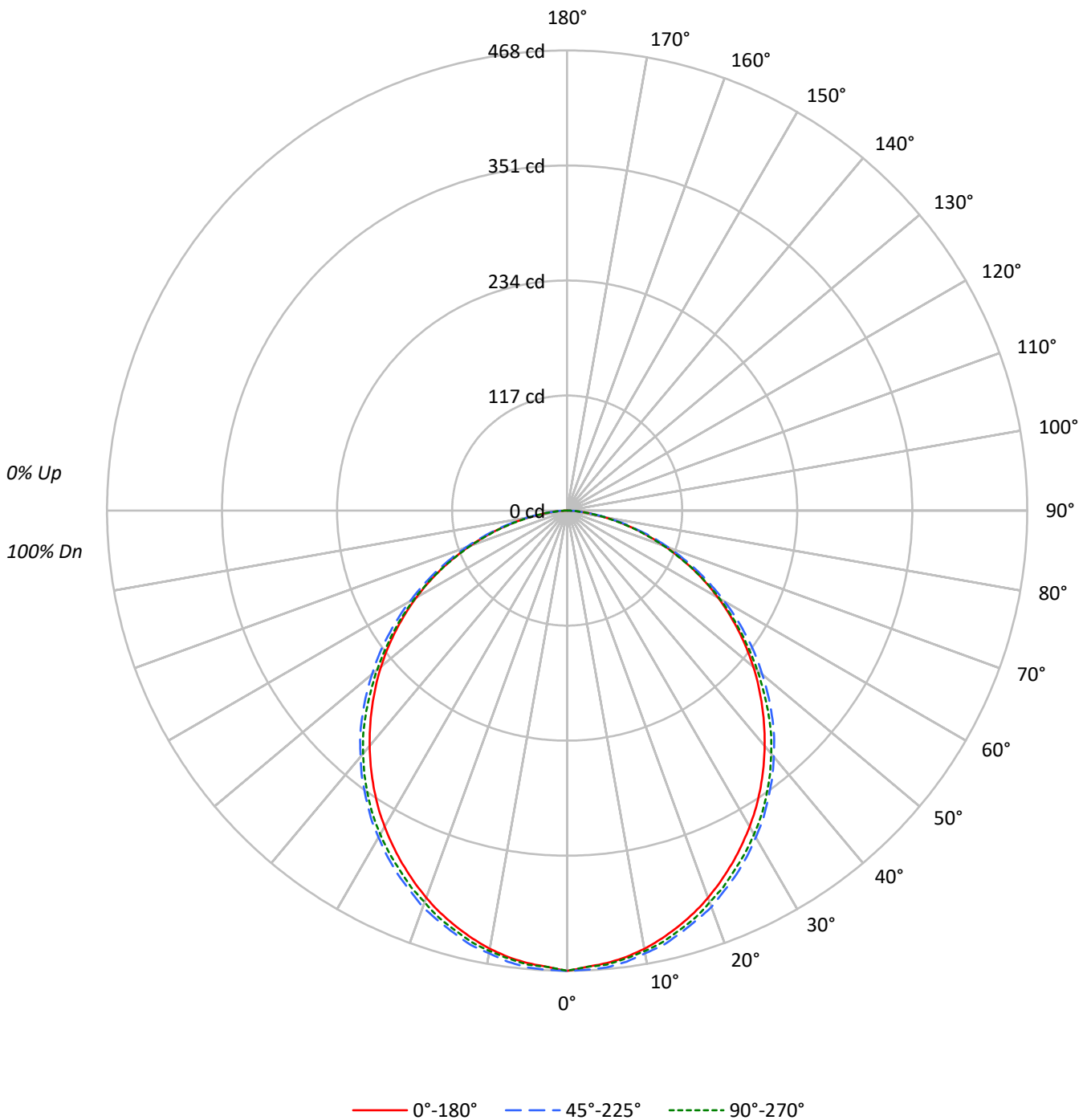
Lumens per Lamp: N/A
Luminaire Lumens: 1230.7 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2519	2519	2519
5°	2496	2520	2504
10°	2473	2498	2486
15°	2439	2478	2461
20°	2400	2458	2428
25°	2354	2422	2394
30°	2306	2385	2363
35°	2254	2344	2322
40°	2196	2297	2268
45°	2134	2242	2200
50°	2070	2170	2113
55°	1995	2088	2024
60°	1910	1989	1928
65°	1799	1869	1801
70°	1657	1723	1638
75°	1458	1524	1437
80°	1184	1237	1172
85°	827	877	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.6
10°-20°	124.9	10.2
20°-30°	186.3	15.1
30°-40°	220.8	17.9
40°-50°	223.4	18.2
50°-60°	195.1	15.9
60°-70°	142.6	11.6
70°-80°	75.9	6.2
80°-90°	17.5	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°	355.4	28.9
0°-40°	576.2	46.8
0°-60°	994.7	80.8
0°-90°	1230.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	462	463	466	467	464	44
15°	438	441	445	448	442	123
25°	396	401	408	409	403	183
35°	343	348	357	359	353	215
45°	280	285	294	295	289	216
55°	213	217	222	219	216	190
65°	141	144	147	144	141	140
75°	70	72	73	71	69	75
85°	13	14	14	14	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	468.1	468.1	468.1	468.1	468.1
2.5°	464.5	466.0	467.5	468.2	464.4
5°	462.0	462.9	466.4	467.4	463.5
7.5°	458.0	459.3	462.7	463.2	459.4
10°	452.6	454.9	457.1	459.6	454.9
12.5°	445.6	448.8	452.6	453.0	449.5
15°	437.7	440.7	444.8	447.5	441.7
17.5°	429.0	431.8	437.1	437.6	434.1
20°	419.1	422.7	429.1	430.2	423.9
22.5°	408.0	412.8	418.1	419.2	414.6
25°	396.4	401.2	407.9	409.4	403.2
27.5°	384.2	388.9	396.3	397.4	392.2
30°	371.1	375.5	383.7	385.5	380.2
32.5°	357.8	362.2	371.3	372.8	367.6
35°	343.1	348.5	356.7	359.2	353.4
37.5°	328.1	333.3	342.7	344.9	338.7
40°	312.5	317.7	326.9	328.8	322.8
42.5°	296.6	301.8	311.7	311.9	307.0
45°	280.4	285.4	294.5	294.8	289.0
47.5°	263.9	268.9	277.1	276.2	270.7
50°	247.2	252.0	259.2	257.3	252.4
52.5°	230.0	234.6	241.4	238.3	233.7
55°	212.6	216.9	222.5	219.3	215.7
57.5°	195.1	199.4	203.8	200.5	197.4
60°	177.4	181.2	184.8	181.5	179.1
62.5°	159.5	162.8	165.8	162.7	160.4
65°	141.3	144.2	146.8	143.8	141.4
67.5°	123.3	125.7	128.1	125.1	122.6
70°	105.3	107.3	109.5	106.4	104.1
72.5°	87.4	89.3	91.2	88.2	86.2
75°	70.1	71.7	73.3	70.6	69.1
77.5°	53.6	55.0	56.0	54.3	52.8
80°	38.2	39.3	39.9	39.2	37.8
82.5°	24.6	25.3	25.7	25.6	24.7
85°	13.4	13.6	14.2	14.4	13.9
87.5°	5.2	5.5	5.7	6.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)