

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: P488334

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-40-120-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: P488334
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-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

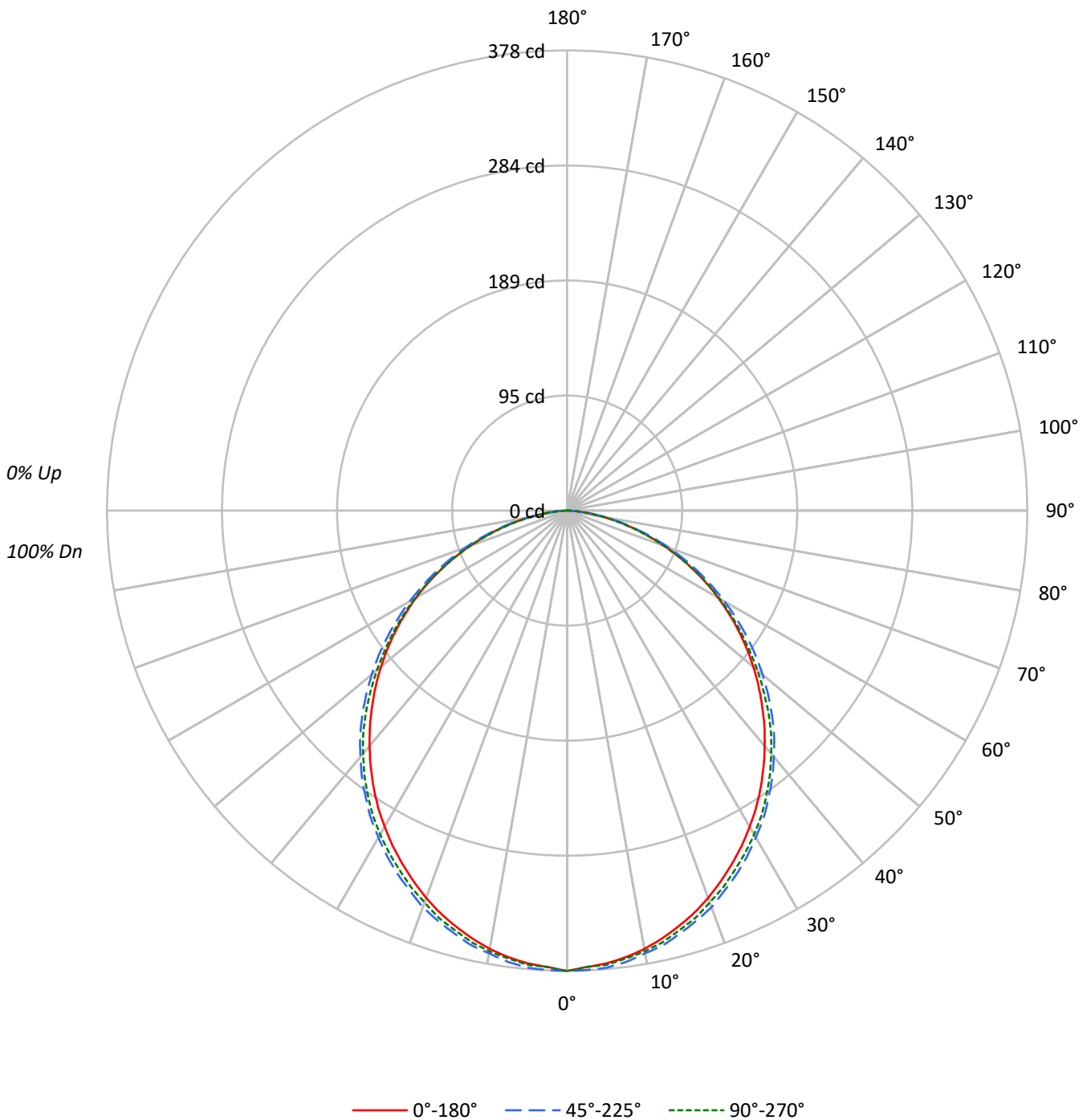
Lumens per Lamp: N/A
Luminaire Lumens: 994.3 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	2035	2035	2035
5°	2017	2036	2023
10°	1998	2018	2009
15°	1970	2003	1988
20°	1939	1986	1962
25°	1901	1957	1935
30°	1863	1927	1909
35°	1821	1894	1876
40°	1774	1855	1832
45°	1724	1811	1777
50°	1672	1753	1707
55°	1612	1687	1635
60°	1544	1607	1558
65°	1454	1510	1456
70°	1338	1393	1323
75°	1179	1231	1160
80°	958	998	945
85°	667	710	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	3.6
10°-20°	100.9	10.2
20°-30°	150.5	15.1
30°-40°	178.4	17.9
40°-50°	180.5	18.2
50°-60°	157.6	15.9
60°-70°	115.2	11.6
70°-80°	61.3	6.2
80°-90°	14.2	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°	287.1	28.9
0°-40°	465.5	46.8
0°-60°	803.6	80.8
0°-90°	994.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	373	374	377	378	374	35
15°	354	356	359	362	357	100
25°	320	324	330	331	326	148
35°	277	282	288	290	286	173
45°	226	231	238	238	234	175
55°	172	175	180	177	174	154
65°	114	116	119	116	114	113
75°	57	58	59	57	56	60
85°	11	11	12	12	11	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	378.2	378.2	378.2	378.2	378.2
2.5°	375.2	376.5	377.7	378.3	375.2
5°	373.3	374.0	376.8	377.6	374.5
7.5°	370.0	371.1	373.8	374.2	371.1
10°	365.6	367.5	369.3	371.3	367.6
12.5°	360.0	362.6	365.6	366.0	363.1
15°	353.6	356.0	359.4	361.5	356.8
17.5°	346.6	348.8	353.2	353.6	350.7
20°	338.6	341.5	346.7	347.6	342.5
22.5°	329.7	333.5	337.8	338.7	334.9
25°	320.2	324.2	329.5	330.8	325.8
27.5°	310.4	314.2	320.2	321.1	316.8
30°	299.8	303.4	310.0	311.4	307.2
32.5°	289.1	292.7	300.0	301.2	297.0
35°	277.2	281.5	288.2	290.2	285.5
37.5°	265.1	269.3	276.9	278.7	273.6
40°	252.5	256.7	264.1	265.6	260.8
42.5°	239.7	243.8	251.8	252.0	248.0
45°	226.5	230.6	238.0	238.2	233.5
47.5°	213.2	217.3	223.9	223.1	218.7
50°	199.7	203.6	209.4	207.9	203.9
52.5°	185.8	189.5	195.0	192.6	188.8
55°	171.8	175.2	179.8	177.2	174.3
57.5°	157.6	161.1	164.6	162.0	159.5
60°	143.4	146.4	149.3	146.6	144.7
62.5°	128.8	131.5	134.0	131.4	129.6
65°	114.2	116.5	118.6	116.2	114.3
67.5°	99.6	101.6	103.5	101.0	99.0
70°	85.0	86.7	88.5	85.9	84.1
72.5°	70.7	72.1	73.7	71.2	69.6
75°	56.7	58.0	59.2	57.1	55.8
77.5°	43.3	44.4	45.3	43.9	42.7
80°	30.9	31.7	32.2	31.7	30.5
82.5°	19.9	20.5	20.7	20.7	19.9
85°	10.8	11.0	11.5	11.6	11.2
87.5°	4.2	4.5	4.6	4.9	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)