

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: P488336

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-50-120-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: P488336
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-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

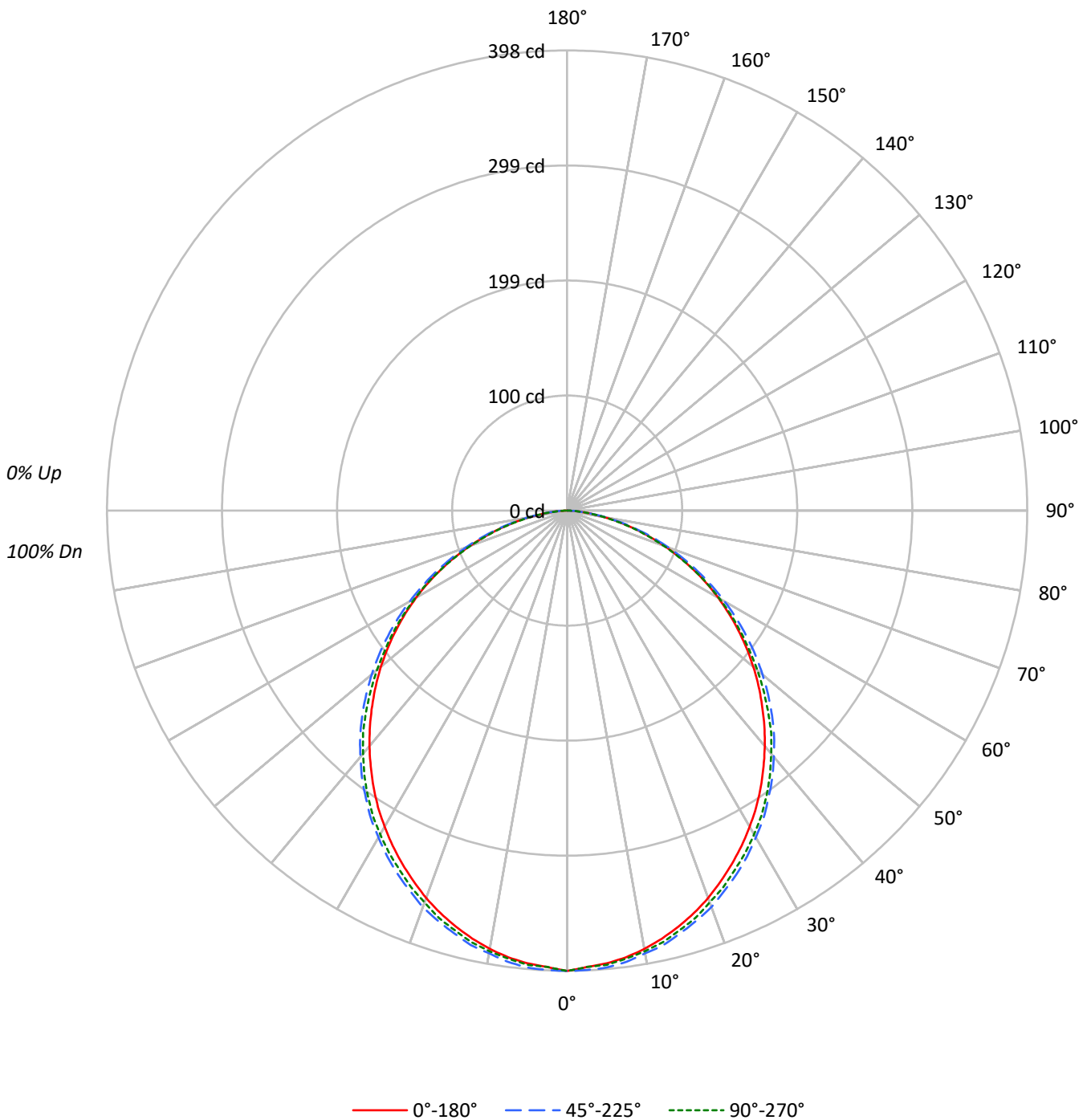
Lumens per Lamp: N/A
Luminaire Lumens: 1047.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2143	2143	2143
5°	2124	2143	2130
10°	2104	2125	2115
15°	2075	2108	2094
20°	2042	2090	2065
25°	2002	2061	2037
30°	1962	2028	2010
35°	1918	1994	1976
40°	1868	1954	1929
45°	1815	1907	1871
50°	1761	1846	1798
55°	1697	1776	1722
60°	1624	1692	1640
65°	1531	1589	1532
70°	1408	1465	1393
75°	1241	1298	1223
80°	1007	1051	998
85°	704	747	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	3.6
10°-20°	106.3	10.2
20°-30°	158.5	15.1
30°-40°	187.9	17.9
40°-50°	190.1	18.2
50°-60°	166.0	15.9
60°-70°	121.3	11.6
70°-80°	64.5	6.2
80°-90°	14.9	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°	302.3	28.9
0°-40°	490.2	46.8
0°-60°	846.2	80.8
0°-90°	1047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	393	394	397	398	394	37
15°	372	375	378	381	376	105
25°	337	341	347	348	343	155
35°	292	296	304	306	301	183
45°	238	243	251	251	246	184
55°	181	184	189	187	184	162
65°	120	123	125	122	120	119
75°	60	61	62	60	59	63
85°	11	12	12	12	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.2	398.2	398.2	398.2	398.2
2.5°	395.1	396.4	397.7	398.3	395.1
5°	393.1	393.8	396.7	397.7	394.3
7.5°	389.7	390.8	393.6	394.1	390.8
10°	385.0	387.0	388.9	391.0	387.0
12.5°	379.1	381.8	385.0	385.4	382.4
15°	372.4	374.9	378.4	380.7	375.8
17.5°	364.9	367.3	371.9	372.3	369.3
20°	356.6	359.6	365.0	366.0	360.6
22.5°	347.1	351.1	355.7	356.6	352.7
25°	337.2	341.4	347.0	348.3	343.0
27.5°	326.8	330.8	337.2	338.1	333.6
30°	315.7	319.4	326.4	328.0	323.4
32.5°	304.4	308.2	315.9	317.2	312.8
35°	291.9	296.5	303.5	305.6	300.7
37.5°	279.1	283.6	291.5	293.4	288.1
40°	265.9	270.3	278.1	279.7	274.6
42.5°	252.4	256.8	265.1	265.4	261.2
45°	238.5	242.8	250.6	250.8	245.8
47.5°	224.5	228.8	235.8	235.0	230.3
50°	210.3	214.4	220.5	218.9	214.7
52.5°	195.6	199.6	205.3	202.8	198.8
55°	180.9	184.5	189.3	186.6	183.5
57.5°	166.0	169.7	173.4	170.6	167.9
60°	150.9	154.2	157.2	154.4	152.4
62.5°	135.7	138.5	141.1	138.4	136.5
65°	120.2	122.7	124.8	122.4	120.3
67.5°	104.9	107.0	109.0	106.4	104.3
70°	89.5	91.3	93.1	90.5	88.5
72.5°	74.4	76.0	77.6	75.0	73.3
75°	59.7	61.0	62.4	60.1	58.8
77.5°	45.6	46.8	47.7	46.2	44.9
80°	32.5	33.4	33.9	33.4	32.2
82.5°	20.9	21.5	21.8	21.8	21.0
85°	11.4	11.6	12.1	12.2	11.8
87.5°	4.4	4.7	4.8	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)