

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: P488327

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-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: P488327
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-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

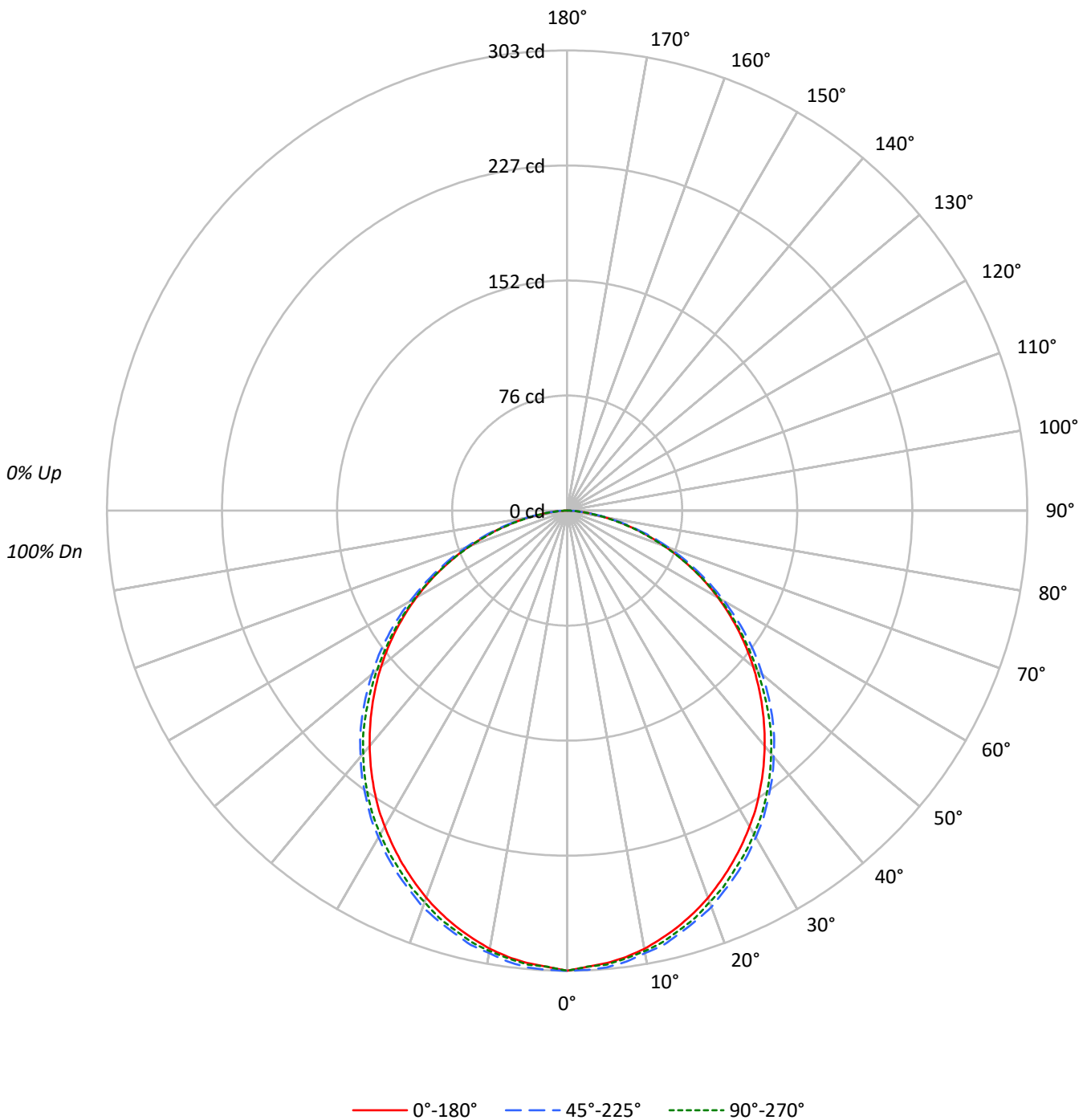
Lumens per Lamp: N/A
Luminaire Lumens: 796.7 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1631	1631	1631
5°	1616	1631	1621
10°	1601	1617	1609
15°	1579	1604	1593
20°	1554	1591	1572
25°	1524	1568	1550
30°	1493	1544	1529
35°	1459	1517	1503
40°	1421	1487	1468
45°	1381	1451	1424
50°	1340	1405	1368
55°	1291	1352	1310
60°	1237	1287	1248
65°	1165	1210	1167
70°	1072	1116	1061
75°	944	988	930
80°	769	800	759
85°	537	568	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	3.6
10°-20°	80.9	10.2
20°-30°	120.6	15.1
30°-40°	142.9	17.9
40°-50°	144.6	18.2
50°-60°	126.3	15.9
60°-70°	92.3	11.6
70°-80°	49.1	6.2
80°-90°	11.4	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°	230.0	28.9
0°-40°	373.0	46.8
0°-60°	643.9	80.8
0°-90°	796.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	299	300	302	303	300	28
15°	283	285	288	290	286	80
25°	257	260	264	265	261	118
35°	222	226	231	232	229	139
45°	182	185	191	191	187	140
55°	138	140	144	142	140	123
65°	92	93	95	93	92	91
75°	45	46	48	46	45	48
85°	9	9	9	9	9	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.0	303.0	303.0	303.0	303.0
2.5°	300.7	301.6	302.7	303.1	300.6
5°	299.1	299.7	301.9	302.6	300.0
7.5°	296.5	297.4	299.5	299.8	297.4
10°	293.0	294.5	295.9	297.5	294.5
12.5°	288.4	290.5	293.0	293.2	291.0
15°	283.4	285.3	287.9	289.7	285.9
17.5°	277.7	279.5	283.0	283.3	281.0
20°	271.3	273.6	277.8	278.5	274.4
22.5°	264.1	267.2	270.7	271.4	268.4
25°	256.6	259.7	264.0	265.0	261.0
27.5°	248.7	251.7	256.6	257.3	253.9
30°	240.2	243.1	248.4	249.6	246.1
32.5°	231.7	234.5	240.4	241.3	238.0
35°	222.1	225.6	230.9	232.5	228.8
37.5°	212.4	215.8	221.8	223.3	219.2
40°	202.3	205.7	211.6	212.8	208.9
42.5°	192.0	195.4	201.8	201.9	198.7
45°	181.5	184.7	190.7	190.8	187.1
47.5°	170.8	174.1	179.4	178.8	175.3
50°	160.0	163.1	167.8	166.6	163.4
52.5°	148.9	151.9	156.3	154.3	151.3
55°	137.6	140.4	144.1	142.0	139.6
57.5°	126.3	129.1	131.9	129.8	127.8
60°	114.9	117.3	119.6	117.5	115.9
62.5°	103.2	105.4	107.3	105.3	103.8
65°	91.5	93.4	95.0	93.1	91.6
67.5°	79.8	81.4	82.9	81.0	79.3
70°	68.1	69.5	70.9	68.9	67.4
72.5°	56.6	57.8	59.0	57.1	55.8
75°	45.4	46.4	47.5	45.7	44.7
77.5°	34.7	35.6	36.3	35.2	34.2
80°	24.8	25.4	25.8	25.4	24.5
82.5°	15.9	16.4	16.6	16.6	16.0
85°	8.7	8.8	9.2	9.3	9.0
87.5°	3.3	3.6	3.7	3.9	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)