

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: P488330

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-30-120-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: P488330
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-30-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

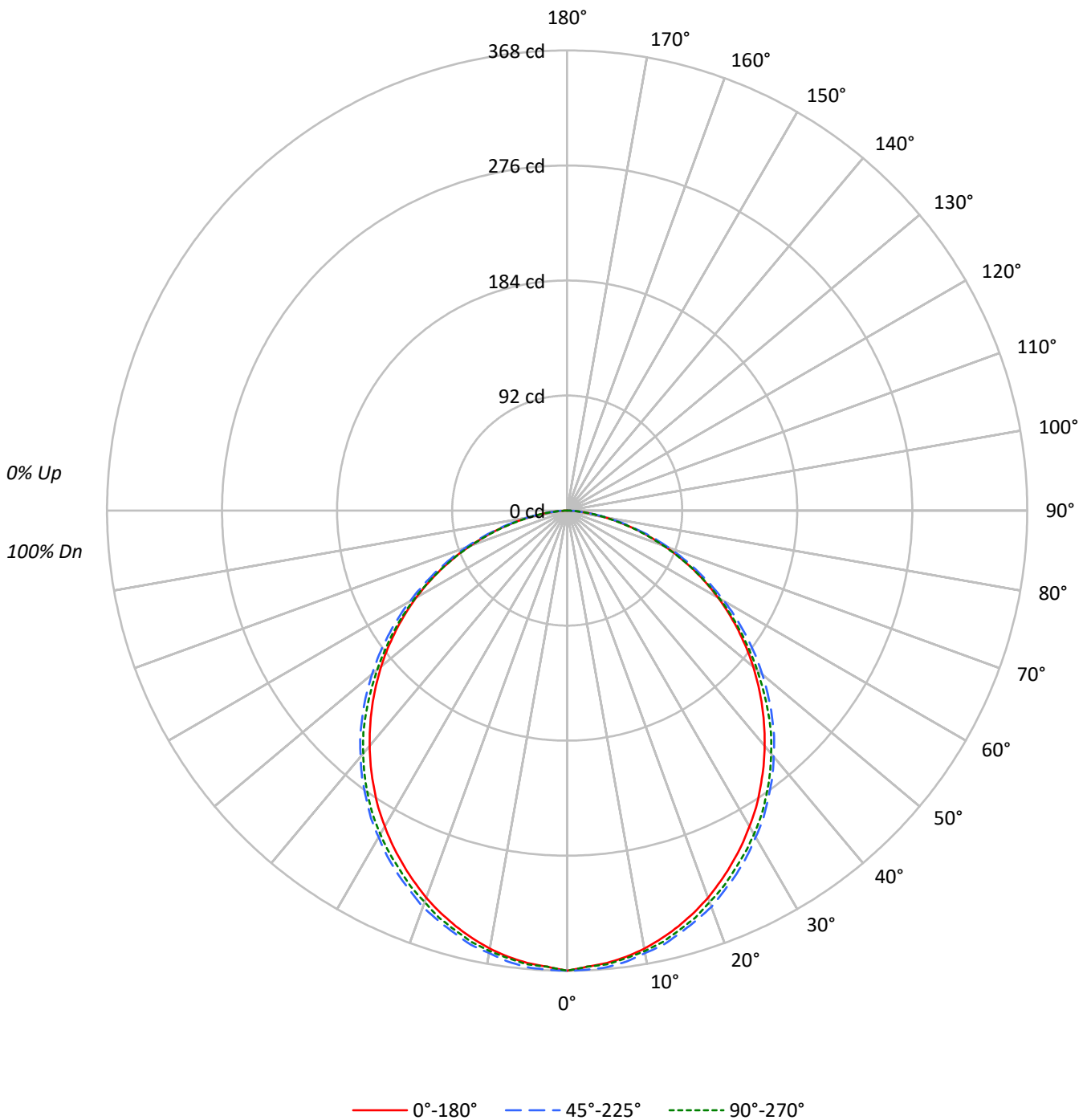
Lumens per Lamp: N/A
Luminaire Lumens: 967.4 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	1981	1981	1981
5°	1962	1981	1968
10°	1944	1964	1954
15°	1917	1948	1935
20°	1887	1932	1908
25°	1850	1904	1882
30°	1813	1874	1857
35°	1772	1842	1825
40°	1726	1806	1782
45°	1678	1762	1729
50°	1627	1706	1661
55°	1568	1641	1591
60°	1502	1564	1516
65°	1415	1470	1416
70°	1301	1355	1287
75°	1146	1198	1129
80°	933	973	921
85°	648	692	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	3.6
10°-20°	98.2	10.2
20°-30°	146.5	15.1
30°-40°	173.6	17.9
40°-50°	175.6	18.2
50°-60°	153.4	15.9
60°-70°	112.1	11.6
70°-80°	59.6	6.2
80°-90°	13.8	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°	279.3	28.9
0°-40°	452.9	46.8
0°-60°	781.9	80.8
0°-90°	967.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	363	364	367	367	364	34
15°	344	346	350	352	347	97
25°	312	315	321	322	317	144
35°	270	274	280	282	278	169
45°	220	224	232	232	227	170
55°	167	170	175	172	170	149
65°	111	113	115	113	111	110
75°	55	56	58	56	54	59
85°	10	11	11	11	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	368.0	368.0	368.0	368.0	368.0
2.5°	365.1	366.3	367.5	368.0	365.1
5°	363.2	363.9	366.6	367.4	364.3
7.5°	360.0	361.1	363.7	364.1	361.1
10°	355.7	357.6	359.3	361.3	357.6
12.5°	350.3	352.7	355.7	356.1	353.3
15°	344.1	346.4	349.6	351.7	347.2
17.5°	337.2	339.4	343.6	344.0	341.2
20°	329.5	332.2	337.3	338.2	333.2
22.5°	320.7	324.5	328.7	329.5	325.9
25°	311.6	315.4	320.6	321.8	316.9
27.5°	302.0	305.7	311.5	312.4	308.3
30°	291.7	295.2	301.6	303.0	298.8
32.5°	281.3	284.7	291.9	293.1	289.0
35°	269.7	273.9	280.4	282.4	277.8
37.5°	257.9	262.0	269.4	271.1	266.2
40°	245.7	249.7	257.0	258.4	253.7
42.5°	233.2	237.2	245.0	245.2	241.3
45°	220.4	224.3	231.5	231.7	227.2
47.5°	207.4	211.4	217.8	217.1	212.8
50°	194.3	198.1	203.7	202.3	198.4
52.5°	180.8	184.4	189.7	187.4	183.7
55°	167.1	170.5	174.9	172.4	169.6
57.5°	153.4	156.8	160.2	157.6	155.2
60°	139.5	142.5	145.3	142.7	140.8
62.5°	125.4	127.9	130.3	127.9	126.1
65°	111.1	113.4	115.4	113.1	111.2
67.5°	96.9	98.8	100.7	98.3	96.3
70°	82.7	84.4	86.1	83.6	81.8
72.5°	68.7	70.2	71.7	69.3	67.7
75°	55.1	56.4	57.6	55.5	54.3
77.5°	42.1	43.2	44.0	42.7	41.5
80°	30.1	30.9	31.4	30.8	29.7
82.5°	19.3	19.9	20.2	20.1	19.4
85°	10.5	10.7	11.2	11.3	10.9
87.5°	4.1	4.3	4.4	4.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)