

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: P488332

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-35-120-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: P488332
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-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

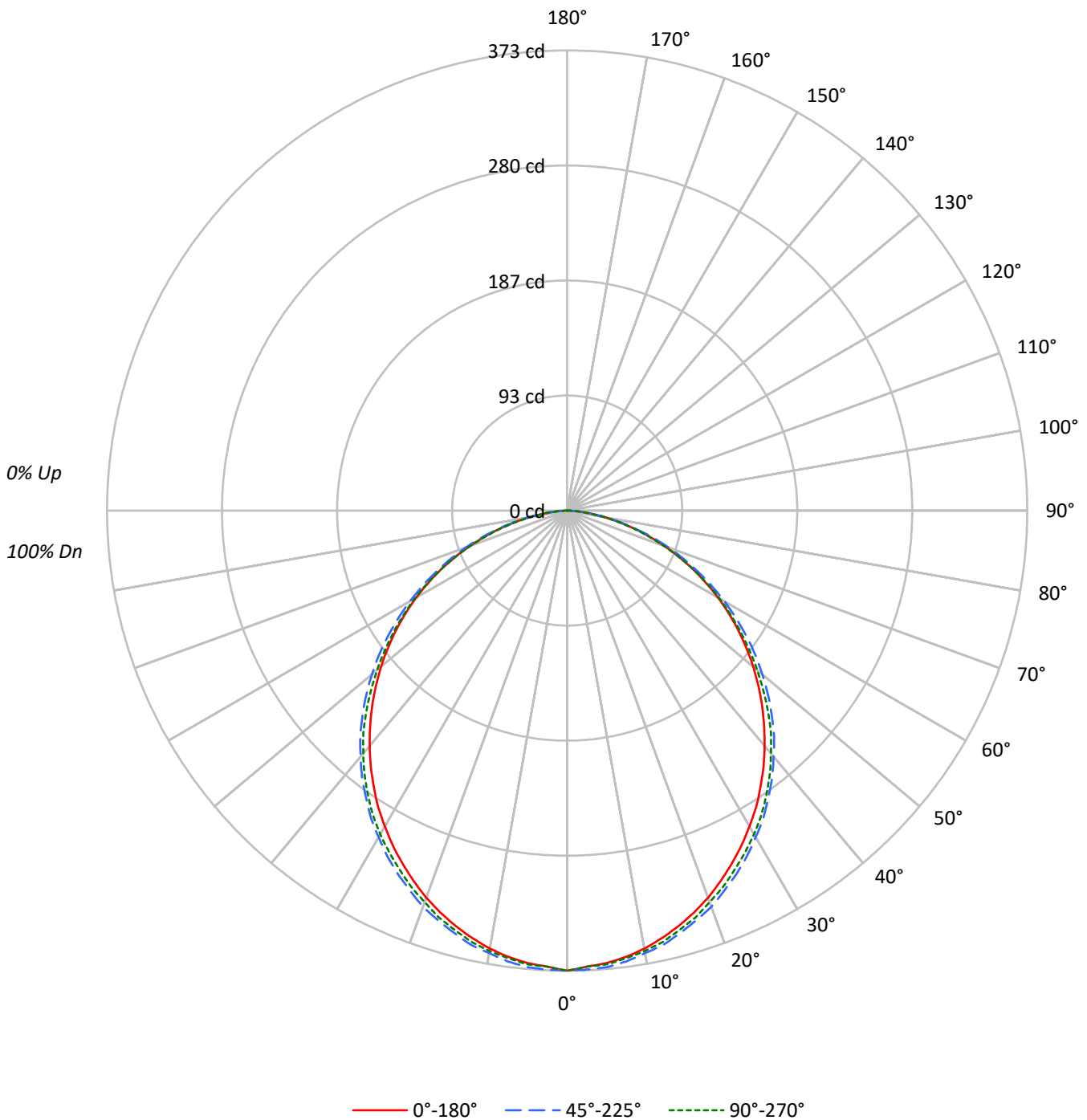
Lumens per Lamp: N/A
Luminaire Lumens: 980.4 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	2007	2007	2007
5°	1989	2007	1995
10°	1970	1990	1981
15°	1943	1974	1961
20°	1912	1958	1934
25°	1875	1929	1907
30°	1837	1900	1882
35°	1796	1867	1849
40°	1749	1829	1806
45°	1700	1786	1752
50°	1649	1729	1684
55°	1590	1664	1612
60°	1521	1584	1536
65°	1434	1489	1435
70°	1319	1372	1304
75°	1162	1214	1144
80°	945	986	933
85°	655	698	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	3.6
10°-20°	99.5	10.2
20°-30°	148.4	15.1
30°-40°	175.9	17.9
40°-50°	178.0	18.2
50°-60°	155.4	15.9
60°-70°	113.6	11.6
70°-80°	60.4	6.2
80°-90°	14.0	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°	283.1	28.9
0°-40°	459.0	46.8
0°-60°	792.4	80.8
0°-90°	980.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	368	369	372	372	369	35
15°	349	351	354	356	352	98
25°	316	320	325	326	321	145
35°	273	278	284	286	282	171
45°	223	227	235	235	230	172
55°	169	173	177	175	172	151
65°	113	115	117	115	113	111
75°	56	57	58	56	55	59
85°	11	11	11	12	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	372.9	372.9	372.9	372.9	372.9
2.5°	370.0	371.2	372.4	373.0	370.0
5°	368.1	368.8	371.5	372.4	369.2
7.5°	364.9	365.9	368.6	369.0	366.0
10°	360.5	362.4	364.2	366.1	362.4
12.5°	355.0	357.5	360.5	360.9	358.1
15°	348.7	351.0	354.3	356.5	351.9
17.5°	341.7	344.0	348.2	348.6	345.8
20°	333.9	336.7	341.8	342.7	337.7
22.5°	325.0	328.8	333.1	333.9	330.2
25°	315.8	319.6	324.9	326.1	321.2
27.5°	306.0	309.8	315.7	316.6	312.4
30°	295.6	299.1	305.7	307.1	302.9
32.5°	285.1	288.6	295.8	297.0	292.9
35°	273.3	277.6	284.2	286.2	281.5
37.5°	261.4	265.5	273.0	274.8	269.8
40°	249.0	253.1	260.4	261.9	257.1
42.5°	236.3	240.4	248.3	248.5	244.5
45°	223.4	227.3	234.6	234.8	230.2
47.5°	210.2	214.2	220.8	220.0	215.7
50°	196.9	200.8	206.5	205.0	201.1
52.5°	183.2	186.9	192.3	189.9	186.2
55°	169.4	172.8	177.3	174.7	171.8
57.5°	155.4	158.9	162.3	159.7	157.2
60°	141.3	144.4	147.2	144.6	142.7
62.5°	127.0	129.7	132.1	129.6	127.8
65°	112.6	114.9	116.9	114.6	112.7
67.5°	98.2	100.2	102.0	99.6	97.6
70°	83.8	85.5	87.2	84.7	82.9
72.5°	69.7	71.1	72.7	70.2	68.7
75°	55.9	57.2	58.4	56.3	55.0
77.5°	42.7	43.8	44.6	43.3	42.1
80°	30.5	31.3	31.8	31.2	30.1
82.5°	19.6	20.2	20.4	20.4	19.7
85°	10.6	10.8	11.3	11.5	11.1
87.5°	4.1	4.4	4.5	4.9	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)