

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: P488384

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-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: P488384
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-LD4-2STD-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

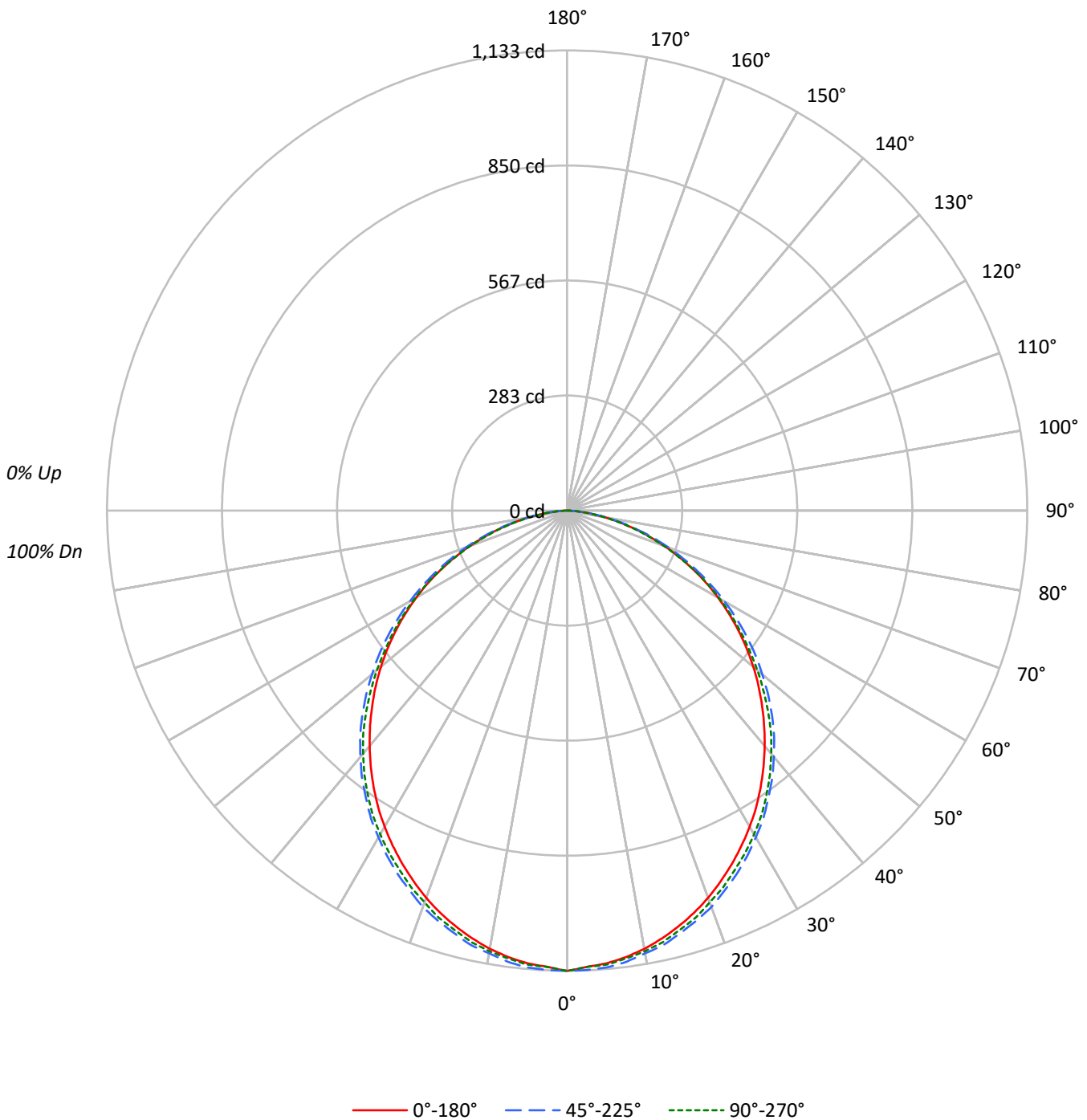
Lumens per Lamp: N/A
Luminaire Lumens: 2979.8 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6100	6100	6100
5°	6043	6101	6063
10°	5988	6049	6020
15°	5905	6001	5958
20°	5812	5950	5879
25°	5699	5865	5797
30°	5584	5773	5720
35°	5458	5675	5622
40°	5316	5561	5491
45°	5167	5428	5326
50°	5012	5254	5117
55°	4830	5056	4901
60°	4624	4816	4667
65°	4358	4525	4362
70°	4009	4172	3965
75°	3531	3691	3477
80°	2870	2994	2836
85°	2001	2130	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.6
10°-20°	302.5	10.2
20°-30°	451.2	15.1
30°-40°	534.6	17.9
40°-50°	540.9	18.2
50°-60°	472.4	15.9
60°-70°	345.2	11.6
70°-80°	183.7	6.2
80°-90°	42.5	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°	860.4	28.9
0°-40°	1395.0	46.8
0°-60°	2408.4	80.8
0°-90°	2979.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1119	1121	1129	1132	1122	106
15°	1060	1067	1077	1084	1069	299
25°	960	972	988	991	976	442
35°	831	844	864	870	856	520
45°	679	691	713	714	700	524
55°	515	525	539	531	522	460
65°	342	349	355	348	342	339
75°	170	174	178	171	167	181
85°	32	33	34	35	34	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1124.6	1128.2	1132.0	1133.6	1124.4
5°	1118.6	1120.8	1129.2	1131.8	1122.2
7.5°	1109.0	1112.2	1120.3	1121.5	1112.3
10°	1095.7	1101.4	1106.8	1112.7	1101.5
12.5°	1078.9	1086.5	1095.7	1096.8	1088.3
15°	1059.8	1066.9	1077.0	1083.5	1069.4
17.5°	1038.6	1045.4	1058.4	1059.6	1051.1
20°	1014.8	1023.4	1038.9	1041.7	1026.4
22.5°	987.9	999.4	1012.4	1015.0	1003.7
25°	959.7	971.5	987.6	991.2	976.2
27.5°	930.2	941.5	959.6	962.2	949.5
30°	898.5	909.2	929.0	933.4	920.5
32.5°	866.4	877.0	899.0	902.7	890.1
35°	830.7	843.7	863.7	869.7	855.7
37.5°	794.4	807.0	829.7	835.1	820.0
40°	756.7	769.2	791.5	796.0	781.5
42.5°	718.2	730.7	754.6	755.3	743.2
45°	678.9	690.9	713.1	713.7	699.7
47.5°	639.0	651.1	671.0	668.7	655.5
50°	598.6	610.2	627.5	623.0	611.1
52.5°	556.8	568.0	584.4	577.1	565.9
55°	514.7	525.1	538.8	531.0	522.3
57.5°	472.4	482.9	493.4	485.5	477.9
60°	429.6	438.8	447.4	439.4	433.6
62.5°	386.1	394.1	401.5	393.8	388.4
65°	342.2	349.2	355.3	348.2	342.5
67.5°	298.5	304.4	310.1	302.8	296.8
70°	254.8	259.9	265.1	257.6	252.0
72.5°	211.7	216.2	220.8	213.5	208.7
75°	169.8	173.7	177.5	171.0	167.2
77.5°	129.8	133.1	135.7	131.6	127.9
80°	92.6	95.1	96.6	94.9	91.5
82.5°	59.5	61.3	62.1	62.0	59.8
85°	32.4	32.9	34.5	34.8	33.7
87.5°	12.5	13.3	13.7	14.8	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)