

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: P488385

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-50-120-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: P488385
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
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

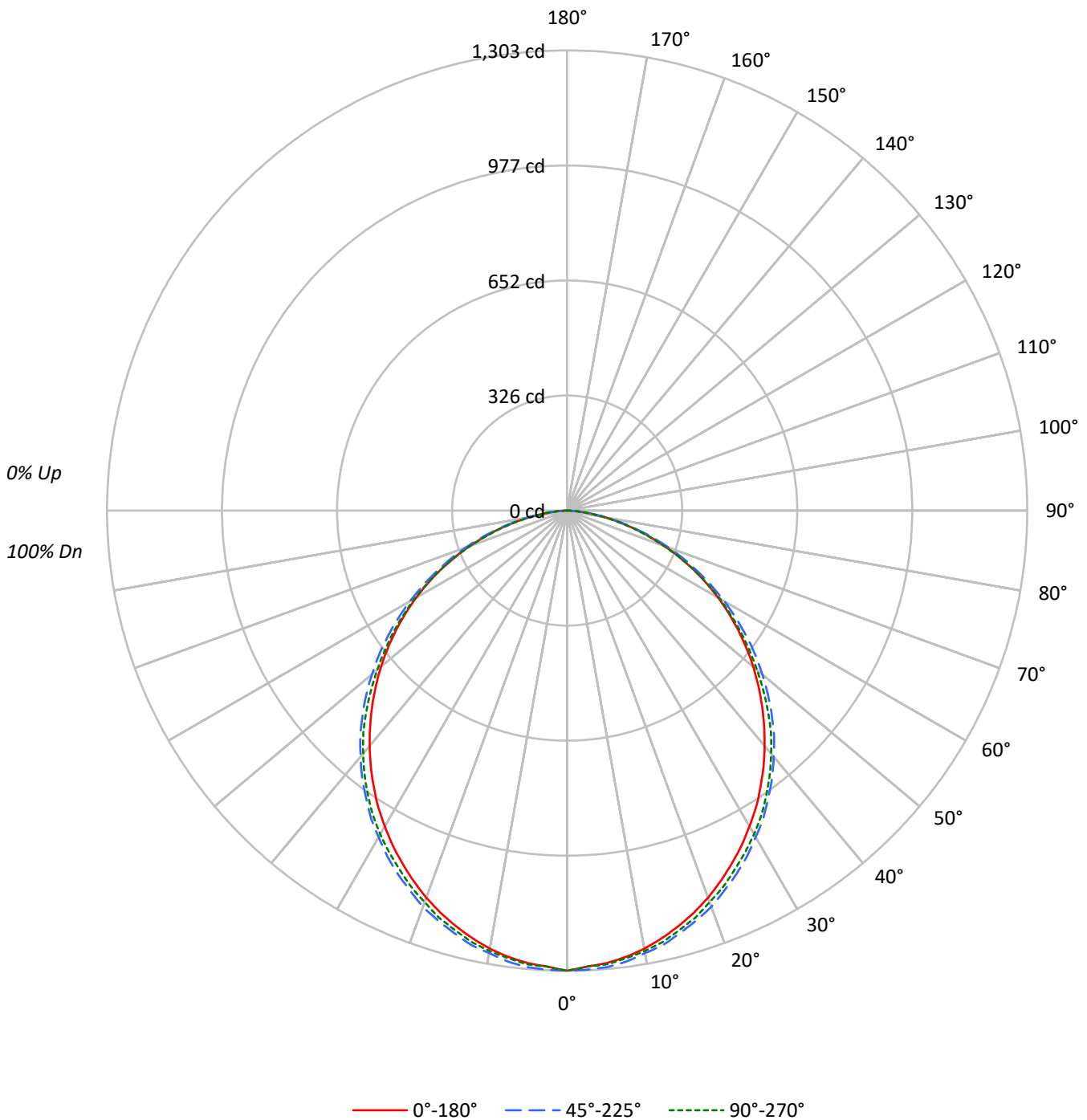
Lumens per Lamp: N/A
Luminaire Lumens: 3425.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7012	7012	7012
5°	6947	7012	6969
10°	6883	6953	6919
15°	6788	6897	6849
20°	6681	6840	6757
25°	6551	6741	6663
30°	6418	6636	6576
35°	6274	6523	6462
40°	6111	6392	6311
45°	5939	6239	6121
50°	5761	6039	5881
55°	5552	5812	5634
60°	5315	5536	5365
65°	5010	5201	5012
70°	4609	4795	4559
75°	4059	4242	3997
80°	3298	3440	3261
85°	2297	2445	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.6
10°-20°	347.7	10.2
20°-30°	518.6	15.1
30°-40°	614.5	17.9
40°-50°	621.8	18.2
50°-60°	543.0	15.9
60°-70°	396.8	11.6
70°-80°	211.1	6.2
80°-90°	48.8	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°	989.0	28.9
0°-40°	1603.5	46.8
0°-60°	2768.3	80.8
0°-90°	3425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1286	1288	1298	1301	1290	122
15°	1218	1226	1238	1245	1229	343
25°	1103	1117	1135	1139	1122	508
35°	955	970	993	1000	984	597
45°	780	794	820	820	804	602
55°	592	604	619	610	600	529
65°	393	401	408	400	394	389
75°	195	200	204	196	192	208
85°	37	38	40	40	39	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1292.6	1296.8	1301.2	1303.1	1292.5
5°	1285.8	1288.3	1297.9	1300.9	1289.9
7.5°	1274.7	1278.4	1287.7	1289.1	1278.5
10°	1259.5	1266.0	1272.2	1279.0	1266.1
12.5°	1240.1	1248.9	1259.5	1260.7	1250.9
15°	1218.2	1226.4	1237.9	1245.4	1229.2
17.5°	1193.8	1201.7	1216.6	1218.0	1208.2
20°	1166.5	1176.3	1194.2	1197.3	1179.8
22.5°	1135.6	1148.7	1163.7	1166.6	1153.7
25°	1103.1	1116.7	1135.2	1139.4	1122.1
27.5°	1069.2	1082.2	1103.0	1106.0	1091.4
30°	1032.8	1045.0	1067.8	1072.9	1058.1
32.5°	995.9	1008.1	1033.4	1037.6	1023.2
35°	954.9	969.8	992.8	999.7	983.5
37.5°	913.1	927.6	953.7	959.9	942.5
40°	869.8	884.2	909.8	915.0	898.3
42.5°	825.5	839.9	867.3	868.2	854.3
45°	780.3	794.2	819.7	820.4	804.2
47.5°	734.5	748.4	771.2	768.7	753.5
50°	688.0	701.3	721.3	716.1	702.4
52.5°	640.0	652.9	671.8	663.3	650.4
55°	591.7	603.6	619.4	610.4	600.4
57.5°	542.9	555.0	567.1	558.0	549.3
60°	493.8	504.4	514.3	505.1	498.4
62.5°	443.9	452.9	461.5	452.7	446.4
65°	393.4	401.4	408.4	400.3	393.6
67.5°	343.1	349.9	356.4	348.0	341.1
70°	292.9	298.8	304.7	296.0	289.7
72.5°	243.4	248.5	253.8	245.4	239.8
75°	195.2	199.7	204.0	196.5	192.2
77.5°	149.2	153.0	156.0	151.2	147.0
80°	106.4	109.3	111.0	109.1	105.2
82.5°	68.4	70.4	71.4	71.3	68.7
85°	37.2	37.9	39.6	40.0	38.7
87.5°	14.4	15.3	15.7	17.0	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)