

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: P488382

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-40-120-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: P488382
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-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

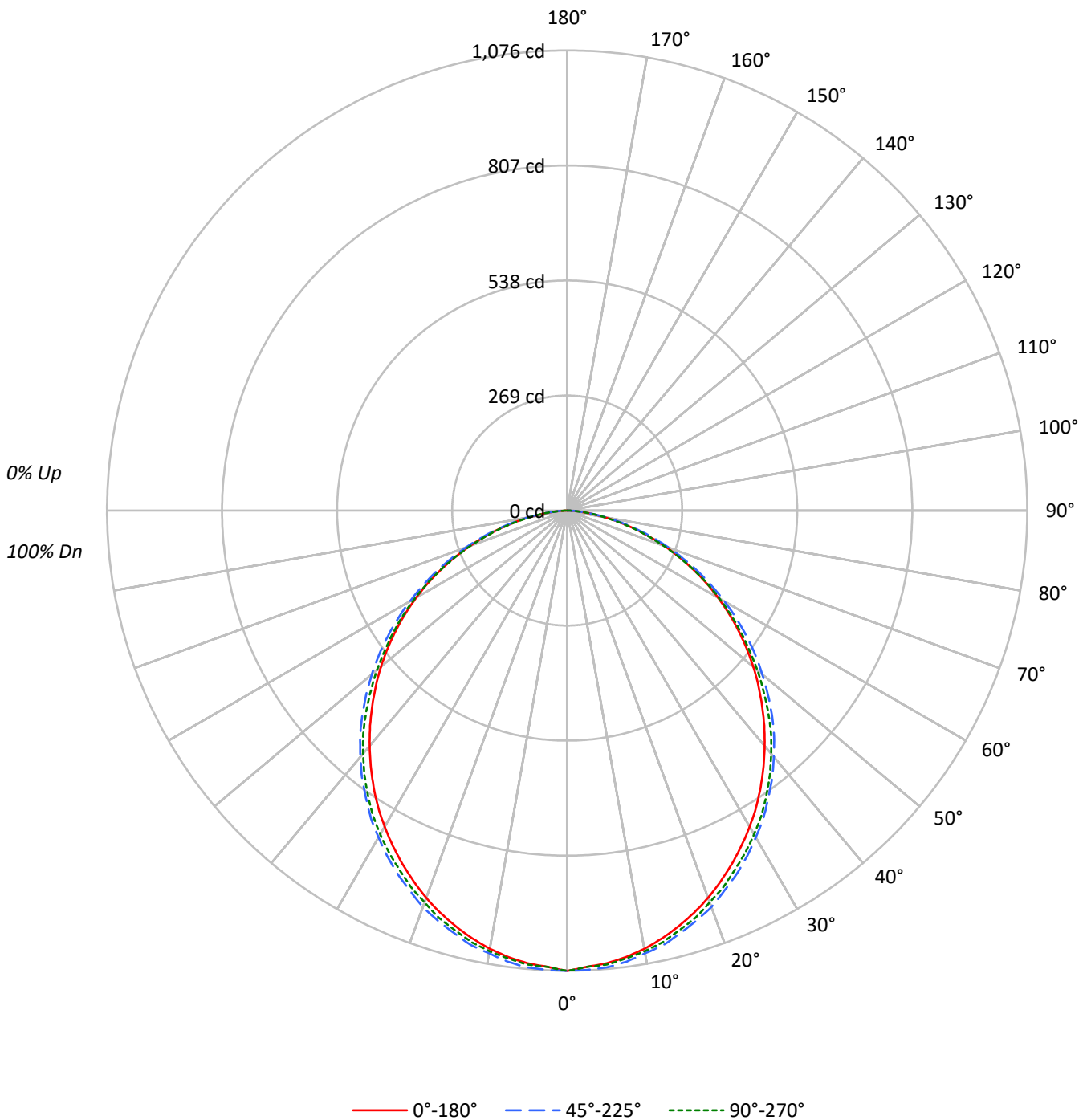
Lumens per Lamp: N/A
Luminaire Lumens: 2829.9 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488382

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2STD-40-120-EDD-90

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°	5793	5793	5793
5°	5740	5794	5757
10°	5687	5745	5717
15°	5608	5699	5659
20°	5520	5651	5583
25°	5412	5570	5505
30°	5303	5483	5433
35°	5184	5389	5339
40°	5049	5281	5214
45°	4907	5155	5058
50°	4760	4990	4860
55°	4587	4801	4654
60°	4392	4574	4433
65°	4139	4298	4141
70°	3808	3962	3766
75°	3354	3506	3302
80°	2724	2842	2693
85°	1896	2019	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.6
10°-20°	287.3	10.2
20°-30°	428.5	15.1
30°-40°	507.7	17.9
40°-50°	513.7	18.2
50°-60°	448.7	15.9
60°-70°	327.9	11.6
70°-80°	174.5	6.2
80°-90°	40.3	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°	817.1	28.9
0°-40°	1324.8	46.8
0°-60°	2287.3	80.8
0°-90°	2829.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1062	1064	1072	1075	1066	101
15°	1006	1013	1023	1029	1016	284
25°	911	923	938	941	927	420
35°	789	801	820	826	813	493
45°	645	656	677	678	664	497
55°	489	499	512	504	496	437
65°	325	332	338	331	325	322
75°	161	165	169	162	159	171
85°	31	31	33	33	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1068.0	1071.5	1075.0	1076.6	1067.9
5°	1062.4	1064.4	1072.4	1074.8	1065.7
7.5°	1053.2	1056.2	1063.9	1065.1	1056.3
10°	1040.6	1046.0	1051.2	1056.8	1046.1
12.5°	1024.6	1031.9	1040.6	1041.6	1033.6
15°	1006.5	1013.3	1022.8	1029.0	1015.6
17.5°	986.3	992.8	1005.2	1006.3	998.2
20°	963.8	971.9	986.7	989.3	974.8
22.5°	938.2	949.1	961.4	963.9	953.3
25°	911.4	922.6	937.9	941.4	927.1
27.5°	883.4	894.2	911.3	913.8	901.8
30°	853.3	863.4	882.3	886.4	874.2
32.5°	822.8	832.9	853.8	857.3	845.4
35°	789.0	801.3	820.2	826.0	812.6
37.5°	754.4	766.4	787.9	793.1	778.8
40°	718.6	730.5	751.7	756.0	742.2
42.5°	682.1	694.0	716.6	717.3	705.9
45°	644.7	656.2	677.3	677.8	664.5
47.5°	606.8	618.4	637.2	635.1	622.5
50°	568.5	579.5	596.0	591.7	580.4
52.5°	528.8	539.4	555.0	548.1	537.4
55°	488.9	498.7	511.7	504.3	496.0
57.5°	448.6	458.6	468.6	461.0	453.9
60°	408.0	416.7	424.9	417.3	411.8
62.5°	366.7	374.2	381.3	374.0	368.9
65°	325.0	331.6	337.5	330.7	325.2
67.5°	283.5	289.1	294.5	287.5	281.8
70°	242.0	246.8	251.8	244.6	239.3
72.5°	201.1	205.3	209.7	202.8	198.2
75°	161.3	165.0	168.6	162.4	158.8
77.5°	123.3	126.4	128.9	124.9	121.5
80°	87.9	90.3	91.7	90.2	86.9
82.5°	56.5	58.2	59.0	58.9	56.7
85°	30.7	31.3	32.7	33.1	32.0
87.5°	11.9	12.7	13.0	14.0	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)