

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: P488578

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-20-120-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: P488578
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-12-4-INS-A12125-LD4-2LO-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

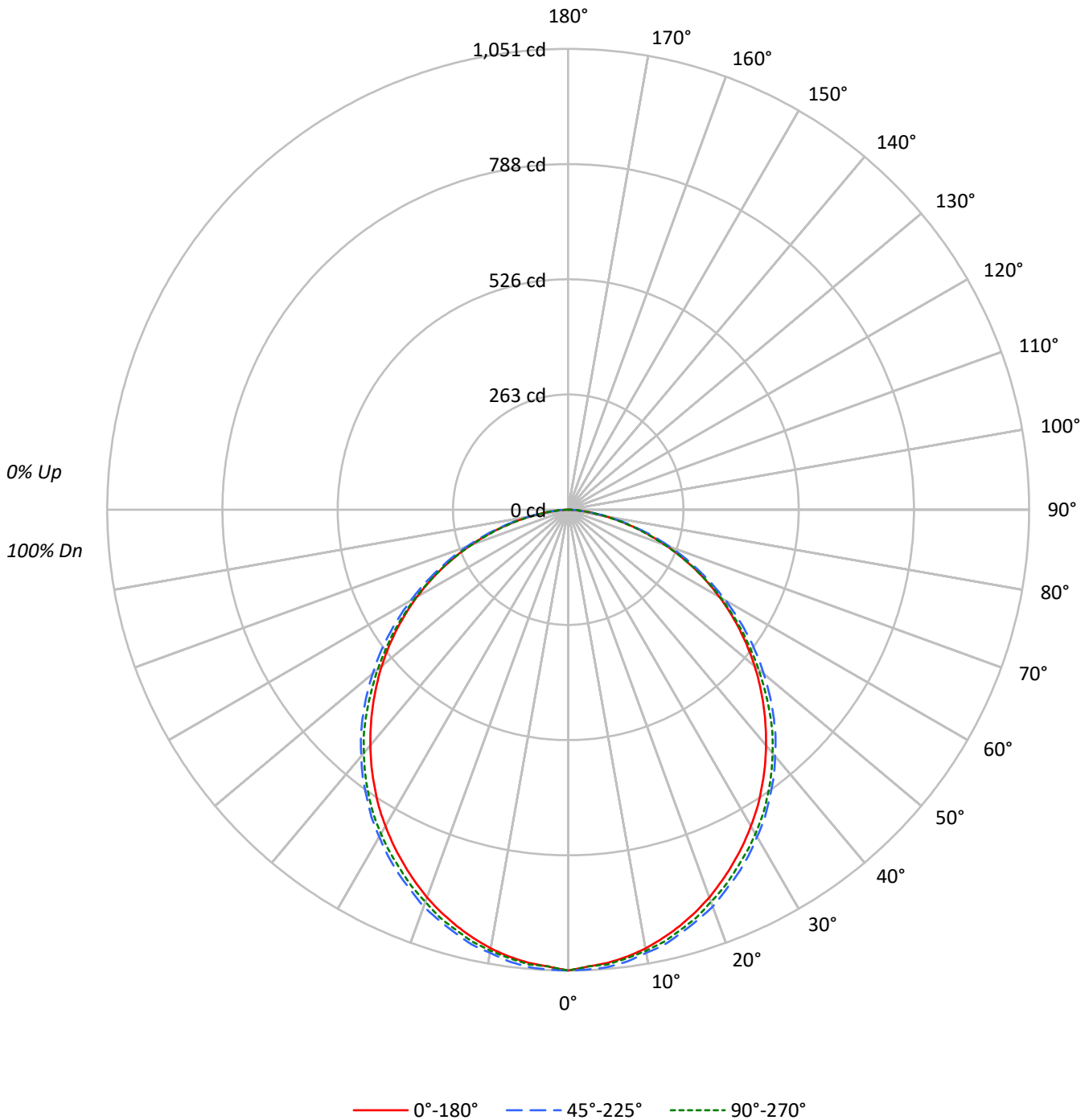
Lumens per Lamp: N/A
Luminaire Lumens: 2763.1 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P488578

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2LO-20-120-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°	2828	2828	2828
5°	2802	2828	2811
10°	2776	2804	2791
15°	2738	2782	2763
20°	2695	2759	2726
25°	2642	2719	2688
30°	2589	2677	2652
35°	2530	2631	2606
40°	2465	2578	2546
45°	2396	2517	2469
50°	2324	2436	2372
55°	2239	2344	2272
60°	2144	2233	2164
65°	2020	2098	2022
70°	1859	1934	1839
75°	1638	1711	1613
80°	1330	1389	1316
85°	926	988	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.6
10°-20°	280.5	10.2
20°-30°	418.3	15.1
30°-40°	495.7	17.9
40°-50°	501.6	18.2
50°-60°	438.1	15.9
60°-70°	320.1	11.6
70°-80°	170.3	6.2
80°-90°	39.4	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°	797.8	28.9
0°-40°	1293.6	46.8
0°-60°	2233.3	80.8
0°-90°	2763.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1037	1039	1047	1050	1041	98
15°	983	989	999	1005	992	277
25°	890	901	916	919	905	410
35°	770	782	801	806	793	482
45°	630	641	661	662	649	486
55°	477	487	500	492	484	427
65°	317	324	330	323	318	314
75°	158	161	165	159	155	167
85°	30	31	32	32	31	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.0	1051.0	1051.0	1051.0	1051.0
2.5°	1042.8	1046.2	1049.7	1051.2	1042.7
5°	1037.3	1039.3	1047.0	1049.5	1040.6
7.5°	1028.3	1031.3	1038.8	1039.9	1031.4
10°	1016.1	1021.3	1026.3	1031.8	1021.4
12.5°	1000.4	1007.5	1016.1	1017.0	1009.2
15°	982.8	989.3	998.6	1004.7	991.6
17.5°	963.1	969.4	981.5	982.5	974.7
20°	941.0	948.9	963.4	965.9	951.8
22.5°	916.1	926.7	938.7	941.2	930.8
25°	889.9	900.9	915.8	919.1	905.2
27.5°	862.5	873.0	889.8	892.2	880.5
30°	833.2	843.0	861.4	865.5	853.6
32.5°	803.4	813.3	833.6	837.0	825.4
35°	770.3	782.4	800.9	806.5	793.4
37.5°	736.6	748.3	769.3	774.4	760.4
40°	701.7	713.3	734.0	738.1	724.7
42.5°	666.0	677.6	699.7	700.4	689.2
45°	629.5	640.7	661.3	661.8	648.8
47.5°	592.5	603.8	622.2	620.1	607.8
50°	555.1	565.8	581.9	577.7	566.7
52.5°	516.3	526.7	541.9	535.1	524.7
55°	477.3	486.9	499.7	492.4	484.3
57.5°	438.0	447.7	457.5	450.2	443.1
60°	398.4	406.9	414.9	407.5	402.1
62.5°	358.1	365.4	372.3	365.2	360.1
65°	317.3	323.8	329.5	322.9	317.6
67.5°	276.8	282.3	287.5	280.8	275.2
70°	236.3	241.0	245.8	238.8	233.7
72.5°	196.3	200.5	204.8	198.0	193.5
75°	157.5	161.1	164.6	158.6	155.1
77.5°	120.3	123.4	125.8	122.0	118.6
80°	85.8	88.1	89.6	88.0	84.9
82.5°	55.2	56.8	57.6	57.5	55.4
85°	30.0	30.6	32.0	32.3	31.2
87.5°	11.6	12.4	12.7	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)