

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: P488558

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-30-120-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: P488558
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-LD4-1STD-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

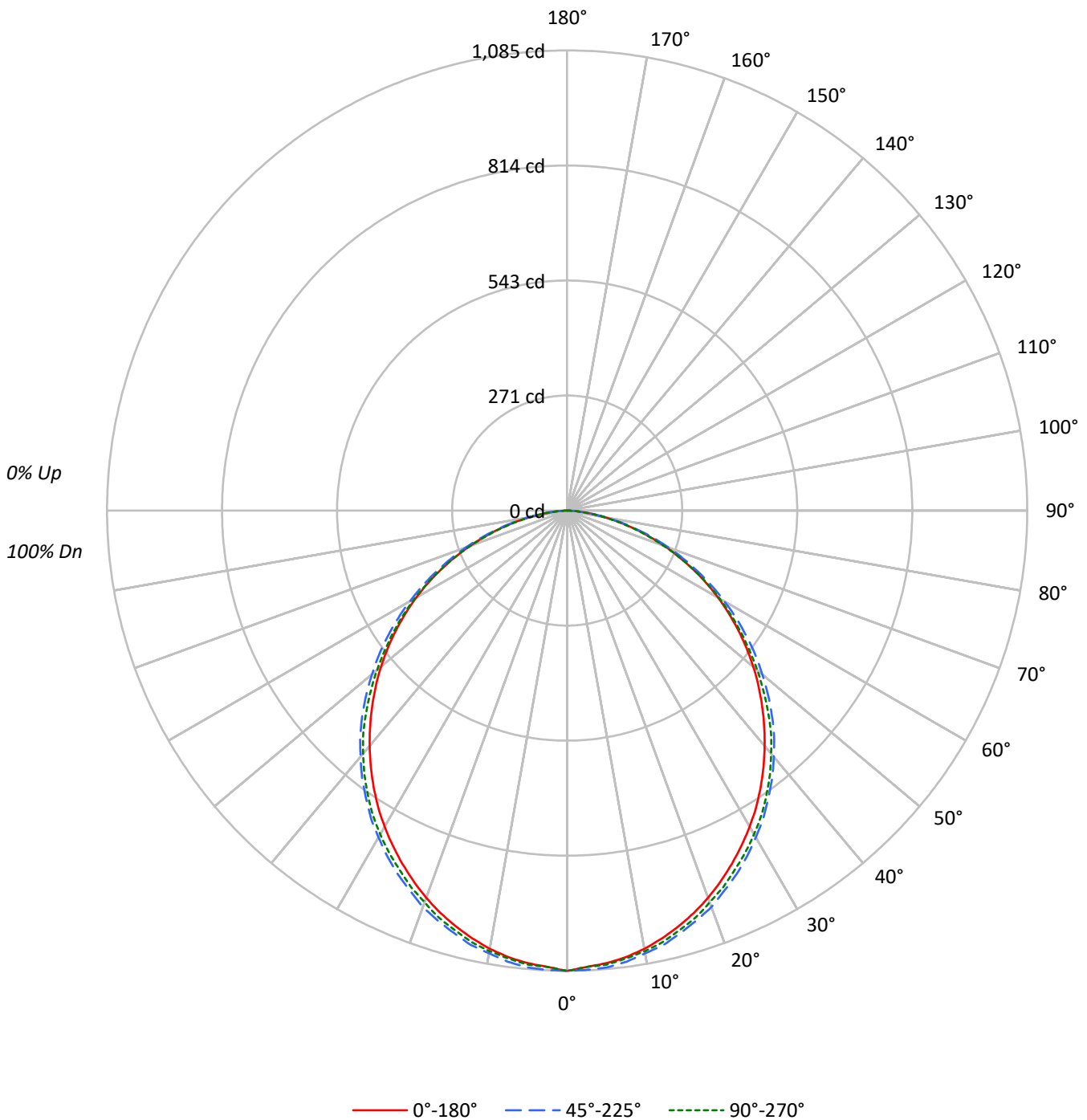
Lumens per Lamp: N/A
Luminaire Lumens: 2853.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P488558

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1STD-30-120-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°	2921	2921	2921
5°	2893	2921	2903
10°	2867	2896	2882
15°	2827	2873	2853
20°	2783	2849	2814
25°	2728	2808	2776
30°	2673	2764	2739
35°	2613	2717	2691
40°	2545	2662	2629
45°	2474	2598	2549
50°	2400	2516	2449
55°	2312	2420	2346
60°	2214	2306	2235
65°	2087	2166	2088
70°	1920	1997	1899
75°	1691	1766	1665
80°	1373	1433	1358
85°	957	1019	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.6
10°-20°	289.6	10.2
20°-30°	432.0	15.1
30°-40°	511.9	17.9
40°-50°	518.0	18.2
50°-60°	452.4	15.9
60°-70°	330.6	11.6
70°-80°	175.9	6.2
80°-90°	40.7	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°	823.8	28.9
0°-40°	1335.7	46.8
0°-60°	2306.1	80.8
0°-90°	2853.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1071	1073	1081	1084	1074	102
15°	1015	1022	1031	1037	1024	286
25°	919	930	946	949	935	423
35°	796	808	827	833	819	497
45°	650	662	683	683	670	501
55°	493	503	516	508	500	441
65°	328	334	340	333	328	324
75°	163	166	170	164	160	173
85°	31	32	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°	1085.3	1085.3	1085.3	1085.3	1085.3
2.5°	1076.8	1080.3	1083.9	1085.5	1076.7
5°	1071.1	1073.2	1081.2	1083.7	1074.5
7.5°	1061.9	1064.9	1072.7	1073.8	1065.0
10°	1049.2	1054.6	1059.8	1065.5	1054.7
12.5°	1033.0	1040.4	1049.2	1050.2	1042.1
15°	1014.8	1021.6	1031.2	1037.4	1024.0
17.5°	994.5	1001.0	1013.5	1014.6	1006.4
20°	971.7	979.9	994.8	997.4	982.8
22.5°	946.0	956.9	969.4	971.8	961.1
25°	918.9	930.2	945.6	949.1	934.8
27.5°	890.7	901.5	918.8	921.3	909.2
30°	860.4	870.5	889.5	893.7	881.4
32.5°	829.6	839.8	860.8	864.3	852.3
35°	795.5	807.9	827.0	832.8	819.3
37.5°	760.6	772.7	794.4	799.6	785.2
40°	724.6	736.5	757.9	762.2	748.3
42.5°	687.7	699.7	722.5	723.2	711.7
45°	650.0	661.6	682.8	683.4	669.9
47.5°	611.8	623.5	642.5	640.3	627.7
50°	573.2	584.2	600.9	596.6	585.1
52.5°	533.1	543.9	559.6	552.6	541.8
55°	492.9	502.8	515.9	508.5	500.1
57.5°	452.3	462.3	472.4	464.8	457.6
60°	411.4	420.2	428.4	420.7	415.2
62.5°	369.7	377.3	384.4	377.1	371.9
65°	327.7	334.4	340.2	333.4	327.9
67.5°	285.8	291.5	296.9	289.9	284.1
70°	244.0	248.9	253.8	246.6	241.3
72.5°	202.7	207.0	211.4	204.4	199.8
75°	162.6	166.3	169.9	163.7	160.1
77.5°	124.3	127.4	129.9	126.0	122.5
80°	88.6	91.0	92.5	90.9	87.6
82.5°	57.0	58.7	59.5	59.4	57.2
85°	31.0	31.5	33.0	33.4	32.2
87.5°	12.0	12.8	13.1	14.1	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)