

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: P488562

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-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: P488562
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-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

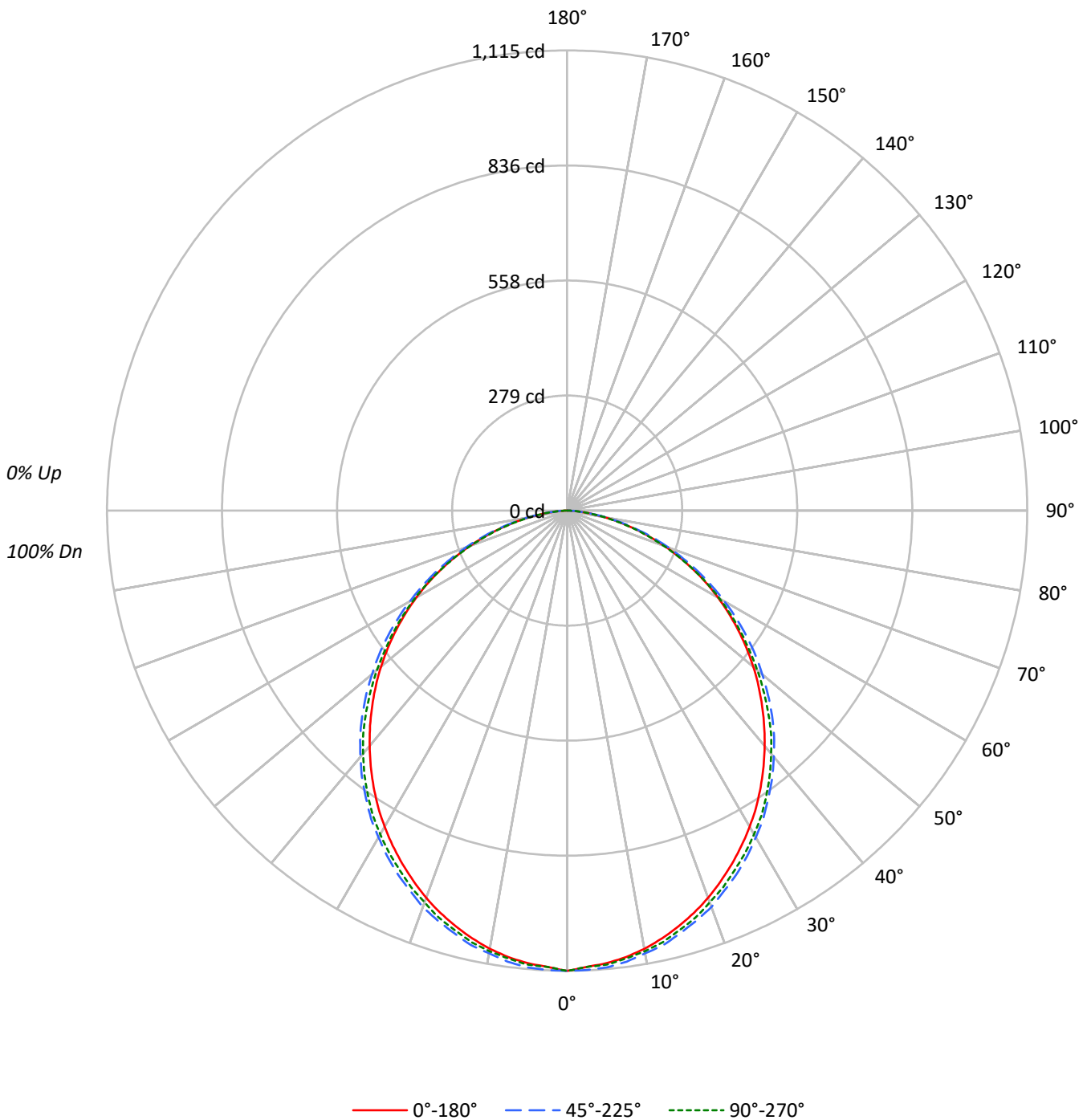
Lumens per Lamp: N/A
Luminaire Lumens: 2932.3 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	3001	3001	3001
5°	2974	3002	2983
10°	2946	2976	2962
15°	2905	2953	2932
20°	2860	2928	2893
25°	2804	2885	2852
30°	2747	2841	2815
35°	2686	2792	2766
40°	2616	2736	2701
45°	2543	2671	2620
50°	2466	2585	2518
55°	2376	2487	2411
60°	2275	2370	2296
65°	2145	2227	2146
70°	1973	2053	1951
75°	1737	1816	1710
80°	1412	1474	1396
85°	982	1047	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.6
10°-20°	297.7	10.2
20°-30°	444.0	15.1
30°-40°	526.1	17.9
40°-50°	532.3	18.2
50°-60°	464.9	15.9
60°-70°	339.7	11.6
70°-80°	180.8	6.2
80°-90°	41.8	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°	846.7	28.9
0°-40°	1372.8	46.8
0°-60°	2370.0	80.8
0°-90°	2932.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1101	1103	1111	1114	1104	104
15°	1043	1050	1060	1066	1052	294
25°	944	956	972	975	961	435
35°	818	830	850	856	842	511
45°	668	680	702	702	688	515
55°	506	517	530	523	514	453
65°	337	344	350	343	337	333
75°	167	171	175	168	164	178
85°	32	32	34	34	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.3	1115.3	1115.3	1115.3	1115.3
2.5°	1106.6	1110.2	1113.9	1115.6	1106.5
5°	1100.8	1102.9	1111.2	1113.7	1104.3
7.5°	1091.3	1094.4	1102.4	1103.6	1094.5
10°	1078.3	1083.9	1089.2	1095.0	1084.0
12.5°	1061.7	1069.2	1078.3	1079.3	1071.0
15°	1042.9	1049.9	1059.8	1066.2	1052.4
17.5°	1022.0	1028.8	1041.6	1042.7	1034.3
20°	998.7	1007.0	1022.4	1025.1	1010.1
22.5°	972.2	983.4	996.2	998.8	987.7
25°	944.4	956.0	971.8	975.4	960.7
27.5°	915.4	926.5	944.3	946.8	934.4
30°	884.2	894.7	914.2	918.5	905.8
32.5°	852.6	863.1	884.7	888.3	876.0
35°	817.5	830.3	849.9	855.9	842.0
37.5°	781.7	794.1	816.5	821.8	806.9
40°	744.6	757.0	778.9	783.3	769.0
42.5°	706.8	719.1	742.6	743.3	731.4
45°	668.1	679.9	701.8	702.3	688.5
47.5°	628.8	640.8	660.3	658.1	645.1
50°	589.0	600.4	617.5	613.1	601.4
52.5°	547.9	558.9	575.1	567.9	556.9
55°	506.5	516.8	530.2	522.6	514.0
57.5°	464.8	475.2	485.5	477.7	470.3
60°	422.8	431.8	440.3	432.4	426.7
62.5°	380.0	387.8	395.1	387.5	382.2
65°	336.8	343.6	349.7	342.7	337.0
67.5°	293.8	299.6	305.2	298.0	292.0
70°	250.8	255.8	260.9	253.4	248.0
72.5°	208.4	212.8	217.3	210.1	205.3
75°	167.1	170.9	174.7	168.3	164.5
77.5°	127.7	131.0	133.5	129.5	125.9
80°	91.1	93.5	95.1	93.4	90.1
82.5°	58.6	60.3	61.1	61.0	58.8
85°	31.8	32.4	33.9	34.3	33.1
87.5°	12.3	13.1	13.5	14.5	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)