

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: P488606

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-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: P488606
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-LD4-3HI-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

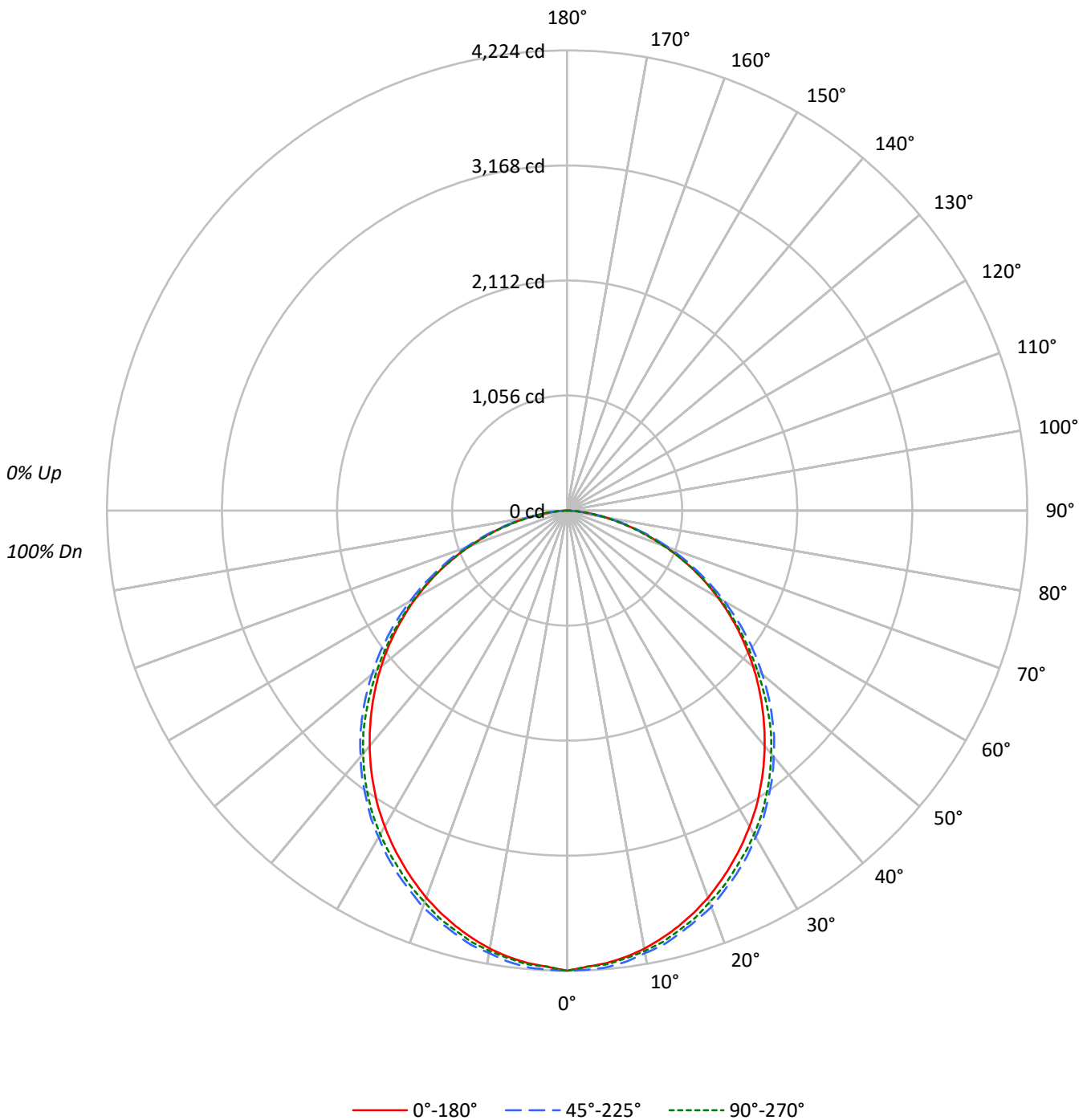
Lumens per Lamp: N/A
Luminaire Lumens: 11104.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	11366	11366	11366
5°	11261	11366	11296
10°	11158	11271	11217
15°	11003	11181	11102
20°	10830	11087	10954
25°	10619	10927	10802
30°	10404	10757	10659
35°	10170	10573	10475
40°	9906	10362	10230
45°	9628	10113	9922
50°	9339	9790	9534
55°	8999	9421	9132
60°	8616	8974	8697
65°	8120	8431	8126
70°	7471	7773	7389
75°	6579	6877	6478
80°	5346	5579	5284
85°	3724	3968	3872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.8	3.6
10°-20°	1127.2	10.2
20°-30°	1681.2	15.1
30°-40°	1992.3	17.9
40°-50°	2015.9	18.2
50°-60°	1760.6	15.9
60°-70°	1286.6	11.6
70°-80°	684.5	6.2
80°-90°	158.2	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°	3206.3	28.9
0°-40°	5198.5	46.8
0°-60°	8975.0	80.8
0°-90°	11104.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11104.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4169	4177	4208	4218	4182	395
15°	3950	3976	4013	4038	3985	1113
25°	3576	3620	3680	3694	3638	1648
35°	3096	3144	3219	3241	3189	1936
45°	2530	2575	2658	2660	2607	1952
55°	1918	1957	2008	1979	1946	1715
65°	1275	1301	1324	1298	1276	1262
75°	633	647	661	637	623	673
85°	121	123	128	130	125	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4223.7	4223.7	4223.7	4223.7	4223.7
2.5°	4190.7	4204.3	4218.4	4224.6	4190.2
5°	4168.7	4176.6	4207.8	4217.5	4181.9
7.5°	4132.6	4144.5	4174.8	4179.2	4144.9
10°	4083.3	4104.4	4124.7	4146.7	4104.9
12.5°	4020.4	4049.0	4083.3	4087.3	4055.6
15°	3949.5	3975.9	4013.3	4037.5	3985.2
17.5°	3870.3	3895.8	3944.2	3948.6	3917.0
20°	3781.9	3813.5	3871.6	3881.8	3825.0
22.5°	3681.5	3724.2	3772.6	3782.3	3740.5
25°	3576.4	3620.4	3680.2	3693.9	3638.0
27.5°	3466.3	3508.6	3575.9	3585.6	3538.5
30°	3348.4	3388.0	3461.9	3478.2	3430.3
32.5°	3228.7	3268.3	3350.2	3363.8	3317.2
35°	3095.8	3144.2	3218.6	3241.0	3188.7
37.5°	2960.3	3007.4	3091.9	3112.1	3055.8
40°	2819.9	2866.5	2949.7	2966.4	2912.3
42.5°	2676.4	2723.1	2812.0	2814.6	2769.7
45°	2529.9	2574.8	2657.5	2659.7	2607.3
47.5°	2381.2	2426.5	2500.4	2492.1	2442.8
50°	2230.7	2273.8	2338.5	2321.7	2277.3
52.5°	2074.9	2116.7	2177.8	2150.6	2108.8
55°	1918.2	1956.9	2008.0	1978.9	1946.4
57.5°	1760.2	1799.4	1838.6	1809.1	1780.9
60°	1600.9	1635.3	1667.4	1637.5	1615.9
62.5°	1439.0	1468.5	1496.2	1467.6	1447.4
65°	1275.3	1301.3	1324.1	1297.7	1276.2
67.5°	1112.5	1134.5	1155.6	1128.3	1105.9
70°	949.6	968.6	987.9	959.8	939.1
72.5°	789.0	805.7	822.9	795.6	777.6
75°	632.8	647.3	661.4	637.2	623.1
77.5°	483.6	495.9	505.6	490.2	476.6
80°	345.0	354.2	360.0	353.8	341.0
82.5°	221.8	228.4	231.5	231.0	222.7
85°	120.6	122.8	128.5	129.8	125.4
87.5°	46.6	49.7	51.0	55.0	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)