

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: P489556

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-35-120-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: P489556
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-24-4-INS-A12125-LD4-5LO-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

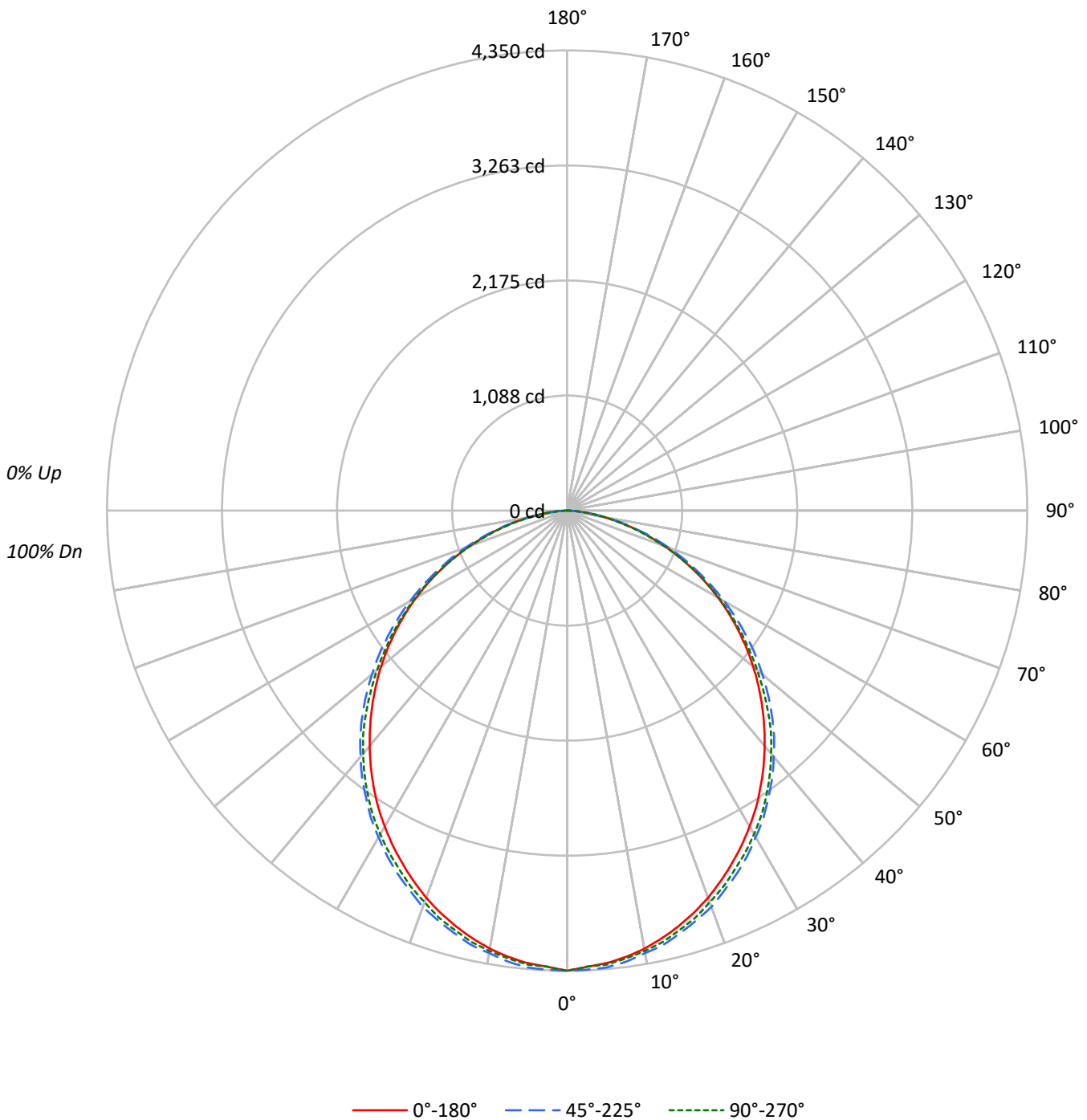
Lumens per Lamp: N/A
Luminaire Lumens: 11436.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	5853	5853	5853
5°	5799	5853	5817
10°	5746	5804	5776
15°	5666	5758	5717
20°	5577	5709	5641
25°	5468	5627	5562
30°	5358	5539	5489
35°	5237	5445	5394
40°	5101	5336	5268
45°	4958	5208	5110
50°	4809	5041	4910
55°	4634	4851	4702
60°	4437	4621	4479
65°	4182	4342	4185
70°	3848	4003	3805
75°	3388	3541	3336
80°	2753	2872	2722
85°	1917	2042	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	3.6
10°-20°	1161.0	10.2
20°-30°	1731.5	15.1
30°-40°	2051.9	17.9
40°-50°	2076.2	18.2
50°-60°	1813.3	15.9
60°-70°	1325.1	11.6
70°-80°	705.0	6.2
80°-90°	162.9	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°	3302.2	28.9
0°-40°	5354.1	46.8
0°-60°	9243.5	80.8
0°-90°	11436.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11436.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4350	4350	4350	4350	4350	
5°	4293	4302	4334	4344	4307	407
15°	4068	4095	4133	4158	4104	1147
25°	3683	3729	3790	3804	3747	1697
35°	3188	3238	3315	3338	3284	1994
45°	2606	2652	2737	2739	2685	2010
55°	1976	2016	2068	2038	2005	1766
65°	1314	1340	1364	1337	1314	1300
75°	652	667	681	656	642	693
85°	124	126	132	134	129	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4350.1	4350.1	4350.1	4350.1	4350.1
2.5°	4316.1	4330.1	4344.6	4351.0	4315.6
5°	4293.4	4301.6	4333.8	4343.7	4307.0
7.5°	4256.3	4268.5	4299.8	4304.3	4268.9
10°	4205.5	4227.3	4248.1	4270.8	4227.7
12.5°	4140.7	4170.1	4205.5	4209.6	4176.9
15°	4067.7	4094.9	4133.4	4158.4	4104.4
17.5°	3986.1	4012.4	4062.3	4066.8	4034.2
20°	3895.0	3927.7	3987.5	3997.9	3939.5
22.5°	3791.7	3835.7	3885.5	3895.5	3852.4
25°	3683.4	3728.7	3790.3	3804.4	3746.8
27.5°	3570.1	3613.6	3682.9	3692.9	3644.4
30°	3448.6	3489.4	3565.5	3582.3	3532.9
32.5°	3325.3	3366.1	3450.4	3464.5	3416.4
35°	3188.5	3238.3	3314.9	3338.0	3284.1
37.5°	3048.9	3097.4	3184.4	3205.2	3147.2
40°	2904.3	2952.3	3038.0	3055.2	2999.5
42.5°	2756.5	2804.6	2896.1	2898.8	2852.6
45°	2605.6	2651.8	2737.0	2739.3	2685.4
47.5°	2452.4	2499.1	2575.2	2566.6	2515.9
50°	2297.4	2341.8	2408.4	2391.2	2345.5
52.5°	2137.0	2180.0	2243.0	2214.9	2171.9
55°	1975.6	2015.5	2068.1	2038.2	2004.6
57.5°	1812.9	1853.2	1893.6	1863.2	1834.2
60°	1648.8	1684.2	1717.3	1686.5	1664.3
62.5°	1482.1	1512.4	1541.0	1511.5	1490.7
65°	1313.5	1340.2	1363.8	1336.6	1314.4
67.5°	1145.8	1168.4	1190.2	1162.1	1139.0
70°	978.1	997.6	1017.5	988.5	967.2
72.5°	812.6	829.9	847.5	819.4	800.9
75°	651.7	666.7	681.2	656.3	641.8
77.5°	498.1	510.8	520.8	504.9	490.8
80°	355.3	364.8	370.7	364.4	351.3
82.5°	228.4	235.2	238.4	237.9	229.3
85°	124.2	126.5	132.3	133.7	129.2
87.5°	48.0	51.2	52.6	56.7	52.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)