

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: P489523

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-40-120-EDD**

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: P489523  
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-LD4-4LO-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

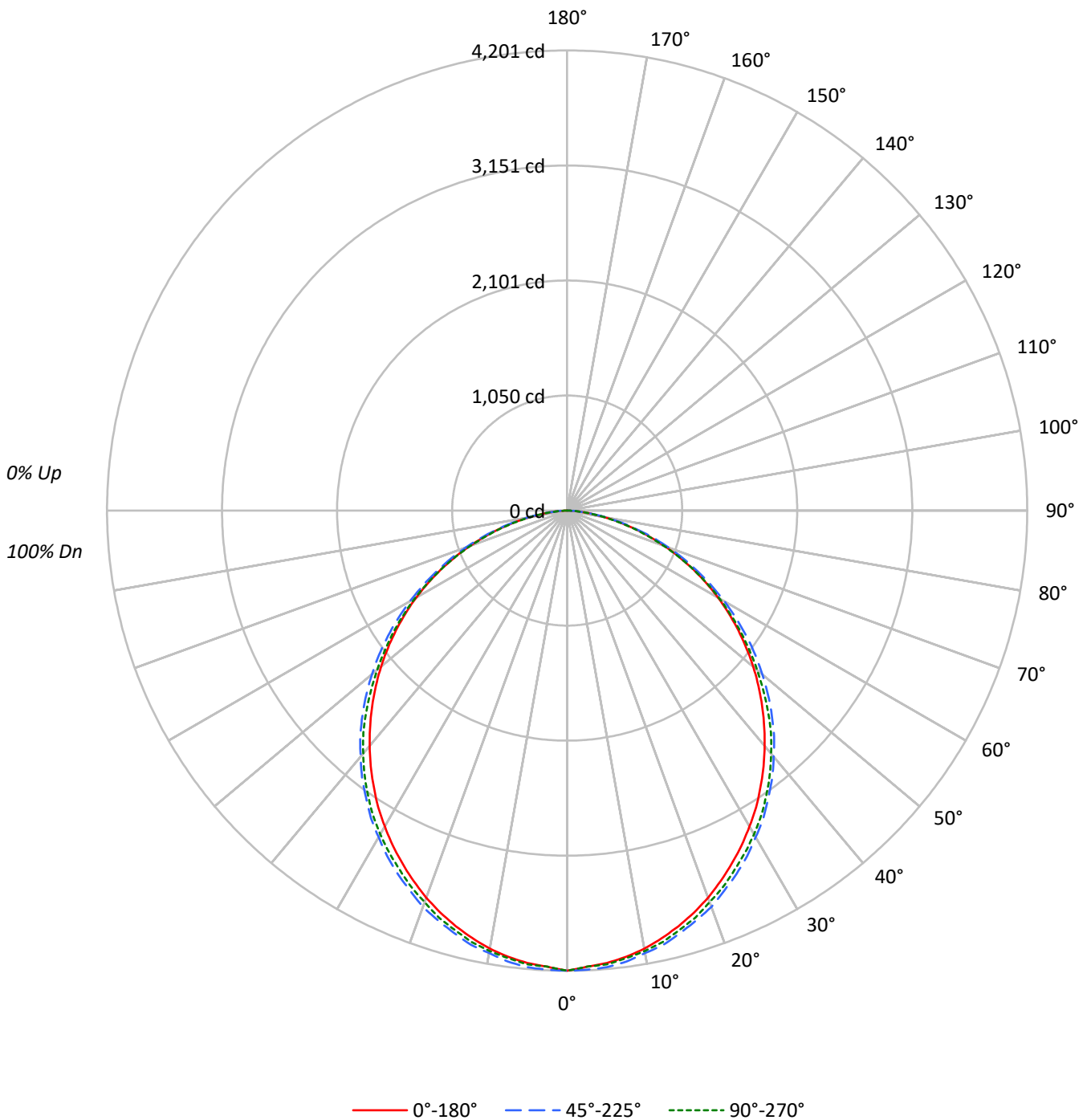
Lumens per Lamp: N/A  
Luminaire Lumens: 11043.6 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 93.6  
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°	5652	5652	5652
5°	5600	5652	5617
10°	5548	5604	5578
15°	5471	5560	5521
20°	5385	5513	5447
25°	5280	5434	5371
30°	5174	5349	5300
35°	5057	5258	5209
40°	4926	5153	5087
45°	4788	5029	4934
50°	4644	4868	4741
55°	4475	4685	4541
60°	4285	4462	4325
65°	4038	4193	4041
70°	3716	3865	3674
75°	3271	3420	3222
80°	2658	2774	2628
85°	1851	1973	1925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.6	3.6
10°-20°	1121.1	10.2
20°-30°	1672.0	15.1
30°-40°	1981.4	17.9
40°-50°	2004.9	18.2
50°-60°	1750.9	15.9
60°-70°	1279.5	11.6
70°-80°	680.8	6.2
80°-90°	157.4	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°	3188.7	28.9
0°-40°	5170.1	46.8
0°-60°	8925.9	80.8
0°-90°	11043.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11043.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4201	4201	4201	4201	4201	
5°	4146	4154	4185	4194	4159	393
15°	3928	3954	3991	4016	3963	1107
25°	3557	3601	3660	3674	3618	1639
35°	3079	3127	3201	3223	3171	1925
45°	2516	2561	2643	2645	2593	1941
55°	1908	1946	1997	1968	1936	1705
65°	1268	1294	1317	1291	1269	1255
75°	629	644	658	634	620	669
85°	120	122	128	129	125	152
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4200.6	4200.6	4200.6	4200.6	4200.6
2.5°	4167.8	4181.3	4195.3	4201.5	4167.3
5°	4145.9	4153.8	4184.8	4194.5	4159.0
7.5°	4110.0	4121.8	4152.0	4156.4	4122.3
10°	4061.0	4082.0	4102.1	4124.0	4082.4
12.5°	3998.4	4026.8	4061.0	4064.9	4033.4
15°	3927.9	3954.2	3991.4	4015.5	3963.4
17.5°	3849.2	3874.5	3922.7	3927.1	3895.5
20°	3761.2	3792.7	3850.5	3860.5	3804.1
22.5°	3661.4	3703.9	3752.0	3761.6	3720.0
25°	3556.8	3600.6	3660.1	3673.7	3618.1
27.5°	3447.4	3489.4	3556.4	3566.0	3519.2
30°	3330.1	3369.5	3443.0	3459.2	3411.5
32.5°	3211.1	3250.4	3331.9	3345.4	3299.0
35°	3078.9	3127.0	3201.0	3223.3	3171.2
37.5°	2944.1	2990.9	3074.9	3095.1	3039.1
40°	2804.5	2850.9	2933.6	2950.2	2896.4
42.5°	2661.8	2708.2	2796.6	2799.2	2754.6
45°	2516.1	2560.7	2643.0	2645.2	2593.1
47.5°	2368.1	2413.2	2486.7	2478.4	2429.4
50°	2218.5	2261.4	2325.7	2309.1	2264.9
52.5°	2063.5	2105.1	2165.9	2138.8	2097.2
55°	1907.7	1946.2	1997.0	1968.1	1935.7
57.5°	1750.6	1789.6	1828.5	1799.2	1771.2
60°	1592.2	1626.3	1658.3	1628.5	1607.1
62.5°	1431.1	1460.4	1488.0	1459.6	1439.4
65°	1268.3	1294.1	1316.9	1290.6	1269.2
67.5°	1106.4	1128.3	1149.3	1122.1	1099.8
70°	944.5	963.3	982.5	954.5	934.0
72.5°	784.7	801.3	818.4	791.3	773.3
75°	629.3	643.8	657.8	633.7	619.7
77.5°	481.0	493.2	502.9	487.5	474.0
80°	343.1	352.3	358.0	351.9	339.2
82.5°	220.6	227.1	230.2	229.8	221.5
85°	119.9	122.1	127.8	129.1	124.7
87.5°	46.4	49.5	50.8	54.7	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)