

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: P489509

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-35-120-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: P489509  
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-LD4-4HI-35-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

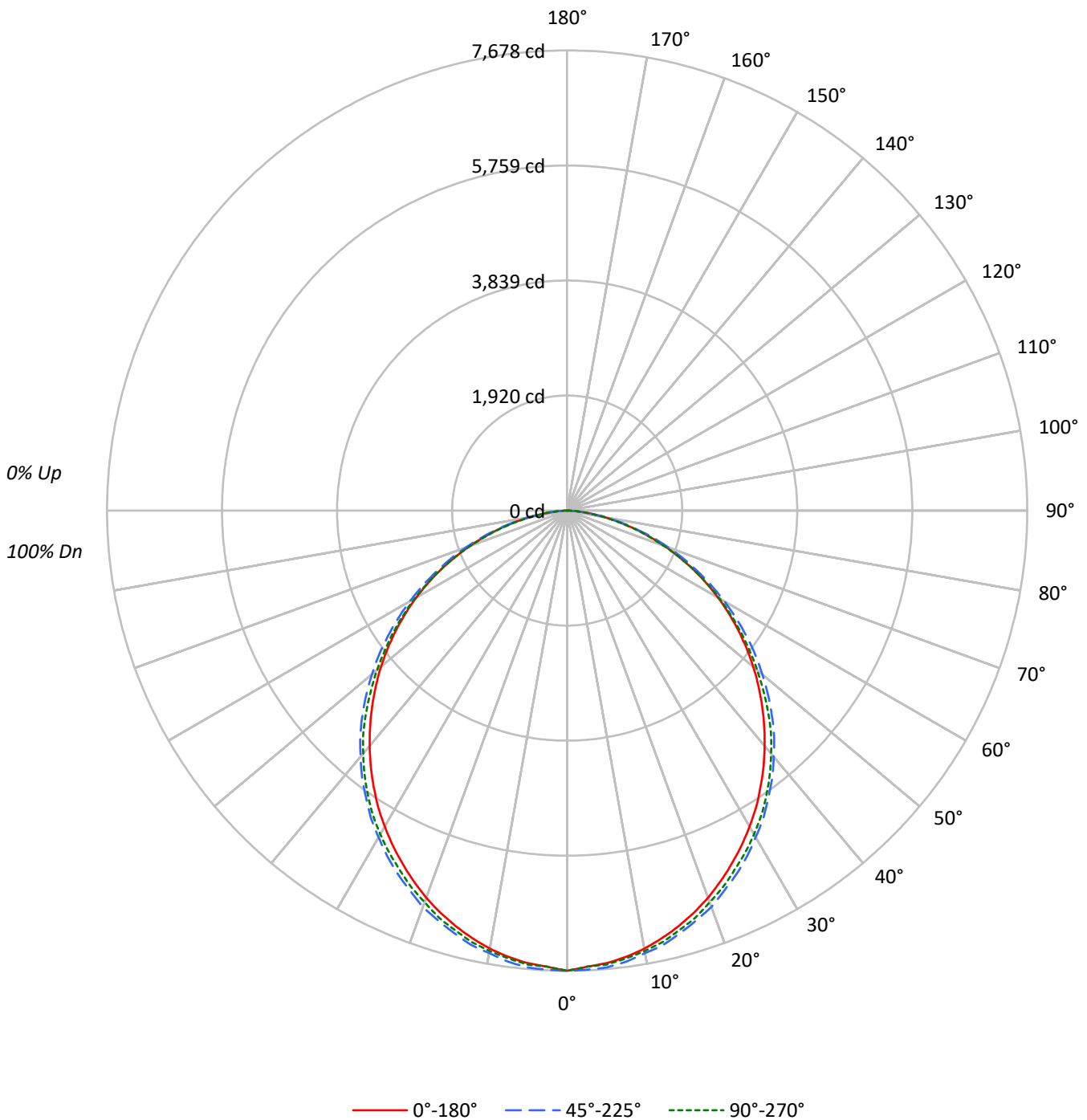
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20186.4 lumens  
Efficiency: N/A  
Efficacy: 116.8 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): 172.8  
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10331	10331	10331
5°	10235	10332	10268
10°	10142	10244	10195
15°	10001	10163	10091
20°	9844	10078	9956
25°	9652	9932	9818
30°	9457	9778	9688
35°	9244	9610	9521
40°	9004	9418	9299
45°	8751	9193	9019
50°	8488	8898	8666
55°	8180	8563	8300
60°	7832	8157	7905
65°	7381	7663	7386
70°	6792	7065	6716
75°	5980	6251	5889
80°	4860	5071	4804
85°	3384	3606	3520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	723.1	3.6
10°-20°	2049.2	10.2
20°-30°	3056.3	15.1
30°-40°	3621.7	17.9
40°-50°	3664.7	18.2
50°-60°	3200.5	15.9
60°-70°	2338.8	11.6
70°-80°	1244.5	6.2
80°-90°	287.6	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°	5828.6	28.9
0°-40°	9450.3	46.8
0°-60°	16315.5	80.8
0°-90°	20186.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20186.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7678	7678	7678	7678	7678	
5°	7578	7593	7649	7667	7602	719
15°	7180	7228	7296	7340	7245	2024
25°	6501	6581	6690	6715	6613	2995
35°	5628	5716	5851	5892	5797	3519
45°	4599	4681	4831	4835	4740	3548
55°	3487	3558	3650	3598	3538	3117
65°	2318	2366	2407	2359	2320	2294
75°	1150	1177	1202	1158	1133	1223
85°	219	223	234	236	228	278
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7678.2	7678.2	7678.2	7678.2	7678.2
2.5°	7618.2	7643.0	7668.6	7679.8	7617.4
5°	7578.2	7592.6	7649.4	7667.0	7602.2
7.5°	7512.6	7534.2	7589.4	7597.4	7535.0
10°	7423.0	7461.4	7498.2	7538.2	7462.2
12.5°	7308.6	7360.6	7423.0	7430.2	7372.6
15°	7179.8	7227.8	7295.8	7339.8	7244.6
17.5°	7035.8	7082.2	7170.2	7178.2	7120.6
20°	6875.0	6932.6	7038.2	7056.6	6953.4
22.5°	6692.6	6770.2	6858.2	6875.8	6799.8
25°	6501.4	6581.4	6690.2	6715.0	6613.4
27.5°	6301.4	6378.2	6500.6	6518.2	6432.6
30°	6087.0	6159.0	6293.4	6323.0	6235.8
32.5°	5869.4	5941.4	6090.2	6115.0	6030.2
35°	5627.8	5715.8	5851.0	5891.8	5796.6
37.5°	5381.5	5467.0	5620.6	5657.4	5555.0
40°	5126.3	5211.1	5362.3	5392.7	5294.3
42.5°	4865.5	4950.3	5111.9	5116.7	5035.1
45°	4599.1	4680.7	4831.1	4835.1	4739.9
47.5°	4328.7	4411.1	4545.5	4530.3	4440.7
50°	4055.1	4133.5	4251.1	4220.7	4139.9
52.5°	3771.9	3847.9	3959.1	3909.5	3833.5
55°	3487.1	3557.5	3650.3	3597.5	3538.3
57.5°	3199.9	3271.1	3342.3	3288.7	3237.5
60°	2910.3	2972.7	3031.1	2976.7	2937.5
62.5°	2615.9	2669.5	2719.9	2667.9	2631.1
65°	2318.3	2365.5	2407.1	2359.1	2319.9
67.5°	2022.3	2062.3	2100.7	2051.1	2010.3
70°	1726.4	1760.8	1796.0	1744.8	1707.2
72.5°	1434.4	1464.8	1496.0	1446.4	1413.6
75°	1150.4	1176.8	1202.4	1158.4	1132.8
77.5°	879.2	901.6	919.2	891.2	866.4
80°	627.2	644.0	654.4	643.2	620.0
82.5°	403.2	415.2	420.8	420.0	404.8
85°	219.2	223.2	233.6	236.0	228.0
87.5°	84.8	90.4	92.8	100.0	92.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)