

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: P489468

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-27-120-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: P489468  
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-LD4-3HI-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

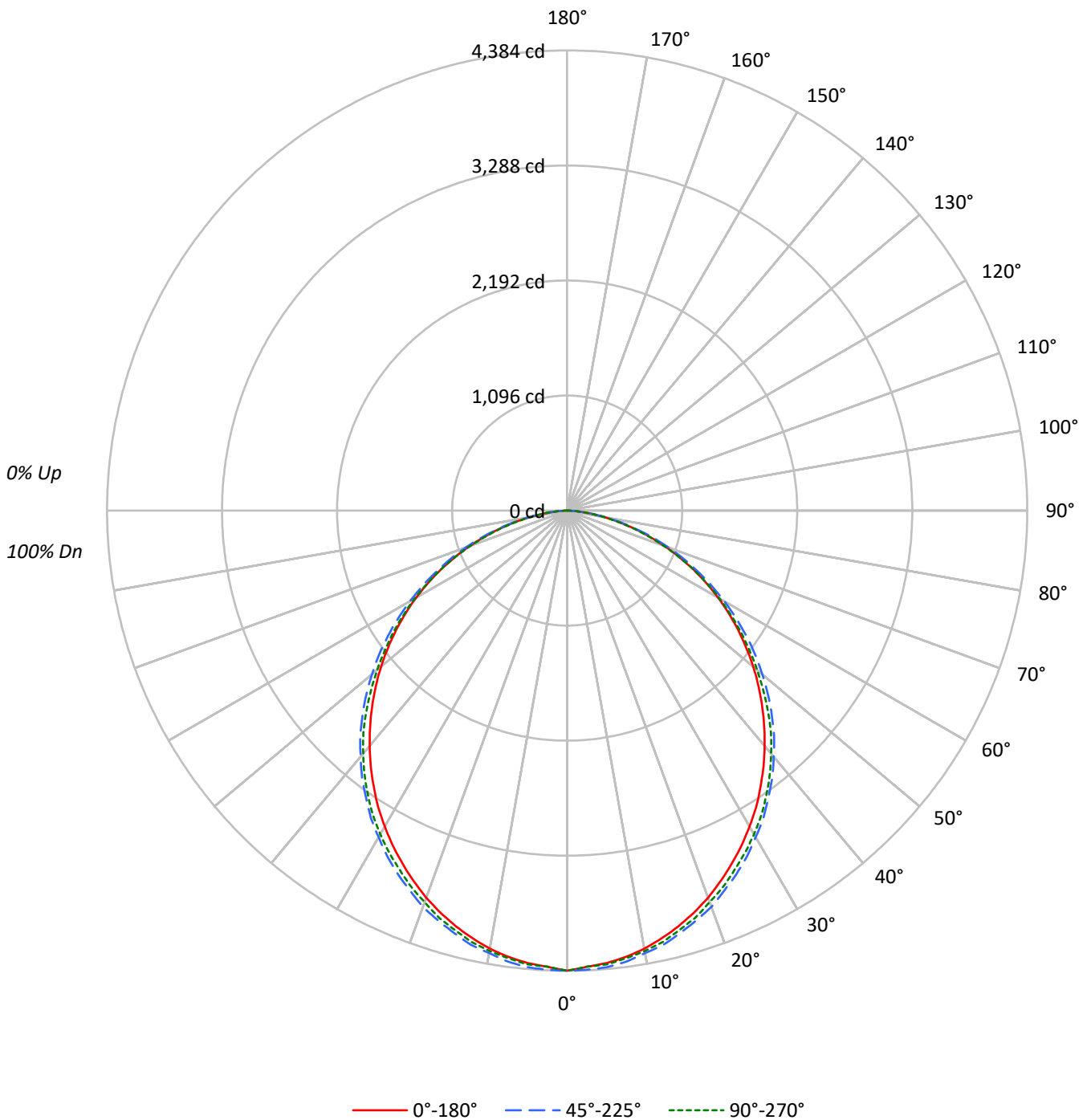
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11524.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 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): 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°	5898	5898	5898
5°	5843	5898	5862
10°	5790	5849	5821
15°	5710	5802	5761
20°	5620	5753	5684
25°	5510	5670	5605
30°	5399	5582	5531
35°	5277	5487	5436
40°	5140	5377	5309
45°	4996	5248	5149
50°	4846	5080	4947
55°	4670	4889	4739
60°	4471	4657	4513
65°	4214	4375	4217
70°	3877	4033	3834
75°	3414	3568	3362
80°	2775	2895	2743
85°	1931	2059	2010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.8	3.6
10°-20°	1169.9	10.2
20°-30°	1744.9	15.1
30°-40°	2067.7	17.9
40°-50°	2092.2	18.2
50°-60°	1827.2	15.9
60°-70°	1335.3	11.6
70°-80°	710.5	6.2
80°-90°	164.2	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°	3327.6	28.9
0°-40°	5395.3	46.8
0°-60°	9314.8	80.8
0°-90°	11524.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11524.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4384	4384	4384	4384	4384	
5°	4326	4335	4367	4377	4340	410
15°	4099	4126	4165	4190	4136	1156
25°	3712	3757	3820	3834	3776	1710
35°	3213	3263	3340	3364	3309	2009
45°	2626	2672	2758	2760	2706	2026
55°	1991	2031	2084	2054	2020	1780
65°	1324	1350	1374	1347	1324	1310
75°	657	672	686	661	647	698
85°	125	127	133	135	130	158
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4383.6	4383.6	4383.6	4383.6	4383.6
2.5°	4349.3	4363.5	4378.1	4384.5	4348.9
5°	4326.5	4334.7	4367.1	4377.2	4340.2
7.5°	4289.0	4301.4	4332.9	4337.5	4301.8
10°	4237.9	4259.8	4280.8	4303.7	4260.3
12.5°	4172.6	4202.3	4237.9	4242.0	4209.1
15°	4099.1	4126.5	4165.3	4190.4	4136.0
17.5°	4016.8	4043.3	4093.6	4098.1	4065.3
20°	3925.0	3957.9	4018.2	4028.7	3969.8
22.5°	3820.9	3865.2	3915.4	3925.5	3882.1
25°	3711.8	3757.4	3819.5	3833.7	3775.7
27.5°	3597.6	3641.4	3711.3	3721.3	3672.5
30°	3475.2	3516.3	3593.0	3609.9	3560.1
32.5°	3350.9	3392.0	3477.0	3491.2	3442.7
35°	3213.0	3263.3	3340.4	3363.7	3309.4
37.5°	3072.3	3121.2	3208.9	3229.9	3171.5
40°	2926.7	2975.1	3061.4	3078.7	3022.6
42.5°	2777.8	2826.2	2918.4	2921.2	2874.6
45°	2625.7	2672.3	2758.1	2760.4	2706.1
47.5°	2471.3	2518.3	2595.1	2586.4	2535.2
50°	2315.1	2359.9	2427.0	2409.6	2363.5
52.5°	2153.4	2196.8	2260.3	2232.0	2188.6
55°	1990.8	2031.0	2084.0	2053.9	2020.1
57.5°	1826.9	1867.5	1908.2	1877.6	1848.3
60°	1661.5	1697.2	1730.5	1699.5	1677.1
62.5°	1493.5	1524.1	1552.8	1523.2	1502.1
65°	1323.6	1350.5	1374.3	1346.9	1324.5
67.5°	1154.6	1177.4	1199.3	1171.0	1147.7
70°	985.6	1005.2	1025.3	996.1	974.6
72.5°	818.9	836.3	854.1	825.7	807.0
75°	656.8	671.8	686.4	661.3	646.7
77.5°	501.9	514.7	524.8	508.8	494.6
80°	358.1	367.7	373.6	367.2	354.0
82.5°	230.2	237.0	240.2	239.8	231.1
85°	125.1	127.4	133.4	134.7	130.2
87.5°	48.4	51.6	53.0	57.1	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)