

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: P489933

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-50-120-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: P489933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-5STD-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

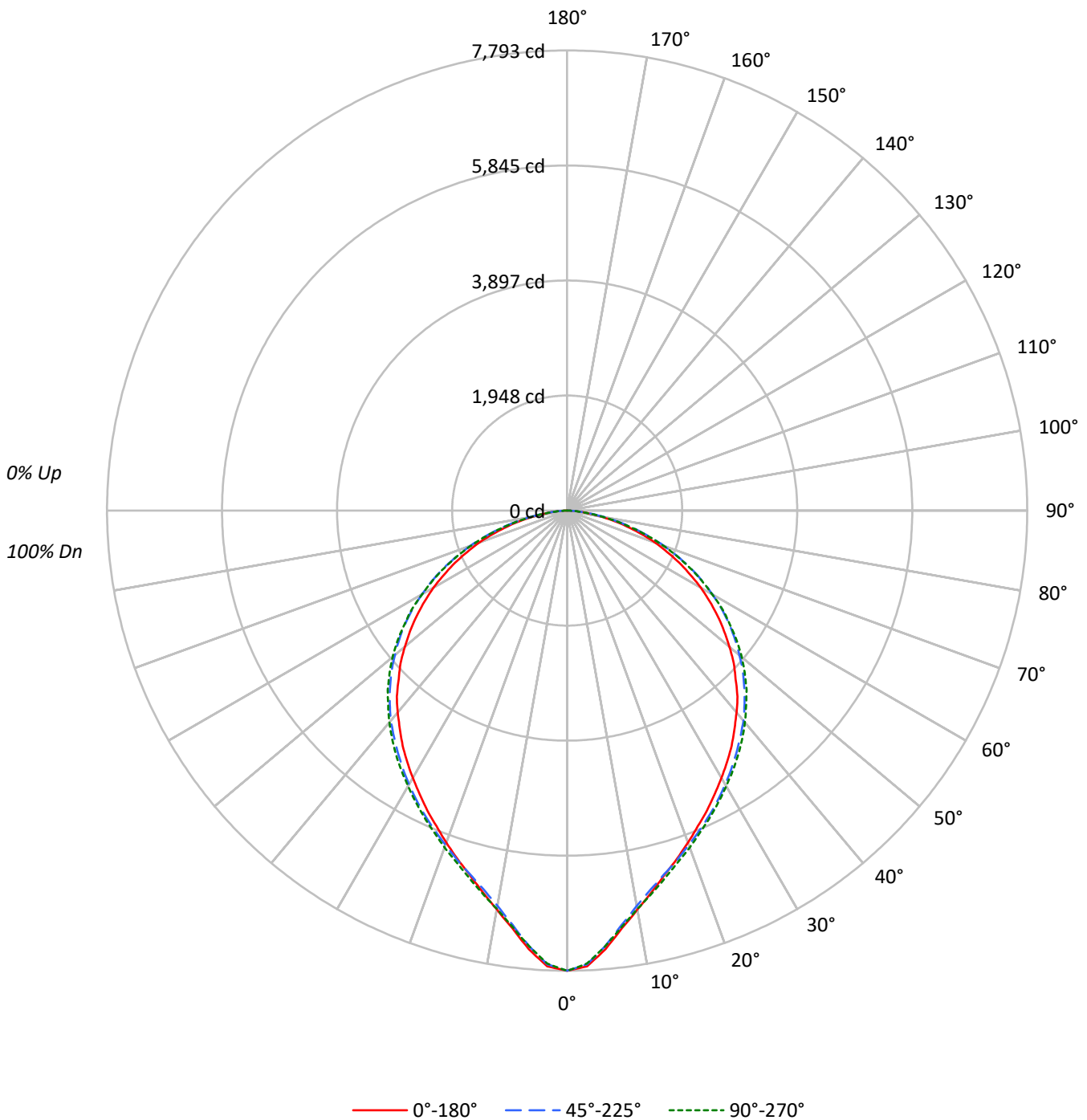
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18101.2 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 166.5  
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	10485	10485	10485
5°	10068	9997	9997
10°	9370	9285	9357
15°	8891	8875	8962
20°	8565	8627	8693
25°	8320	8456	8505
30°	8120	8320	8371
35°	7980	8214	8297
40°	7839	8157	8225
45°	7677	8077	8174
50°	7508	7977	8083
55°	7299	7861	7893
60°	7037	7645	7629
65°	6670	7352	7303
70°	6227	6856	6772
75°	5496	6074	6013
80°	4465	4949	4707
85°	3097	3155	3035



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.6	3.8
10°-20°	1803.7	10.0
20°-30°	2622.9	14.5
30°-40°	3121.2	17.2
40°-50°	3240.9	17.9
50°-60°	2936.1	16.2
60°-70°	2215.5	12.2
70°-80°	1207.1	6.7
80°-90°	265.3	1.5
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°	5115.2	28.3
0°-40°	8236.3	45.5
0°-60°	14413.3	79.6
0°-90°	18101.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18101.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7793	7793	7793	7793	7793	
5°	7454	7436	7401	7398	7401	692
15°	6383	6367	6371	6414	6434	1802
25°	5604	5651	5696	5742	5729	2582
35°	4858	4917	5000	5076	5051	3037
45°	4035	4107	4245	4292	4296	3119
55°	3112	3186	3351	3375	3365	2778
65°	2095	2156	2309	2306	2294	2071
75°	1057	1100	1168	1176	1157	1126
85°	201	202	204	202	197	253
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7792.9	7792.9	7792.9	7792.9	7792.9
2.5°	7724.7	7716.9	7691.6	7681.8	7679.8
5°	7454.0	7436.5	7401.4	7397.6	7401.4
7.5°	7130.8	7111.2	7076.3	7089.9	7107.4
10°	6858.2	6809.5	6795.8	6815.3	6848.4
12.5°	6614.7	6575.8	6564.0	6614.7	6638.2
15°	6383.0	6367.4	6371.4	6414.2	6433.6
17.5°	6182.5	6172.7	6198.1	6231.2	6240.9
20°	5981.9	6001.4	6024.8	6059.9	6071.4
22.5°	5785.3	5822.2	5861.2	5907.9	5892.4
25°	5604.2	5650.9	5695.7	5742.4	5728.8
27.5°	5411.4	5465.8	5528.2	5578.9	5559.3
30°	5226.3	5294.5	5354.9	5417.1	5388.0
32.5°	5043.4	5107.6	5179.6	5255.6	5222.5
35°	4858.3	4916.8	5000.5	5076.5	5051.2
37.5°	4653.9	4725.9	4821.3	4887.5	4870.1
40°	4463.1	4529.3	4644.2	4687.0	4683.1
42.5°	4270.3	4324.9	4445.5	4494.2	4486.4
45°	4034.7	4106.7	4244.9	4291.8	4295.6
47.5°	3826.3	3886.7	4034.7	4071.6	4079.4
50°	3586.8	3662.8	3810.8	3855.5	3861.4
52.5°	3351.1	3432.9	3584.8	3616.0	3621.9
55°	3111.6	3185.6	3351.1	3374.6	3364.9
57.5°	2860.5	2950.1	3102.0	3113.6	3123.4
60°	2615.1	2693.0	2841.0	2856.5	2835.2
62.5°	2348.4	2428.2	2580.1	2583.9	2566.4
65°	2095.2	2155.6	2309.3	2305.5	2293.8
67.5°	1830.3	1904.3	2017.4	2021.2	2011.6
70°	1583.0	1633.7	1742.8	1744.7	1721.4
72.5°	1316.4	1370.8	1458.4	1446.8	1441.0
75°	1057.3	1100.2	1168.4	1176.2	1156.7
77.5°	819.8	850.9	901.6	895.8	874.3
80°	576.3	601.7	638.7	631.0	607.5
82.5°	368.0	383.7	407.0	397.2	387.5
85°	200.6	202.4	204.4	202.4	196.6
87.5°	74.0	76.0	76.0	74.0	68.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)