

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: P489932

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-50-120-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: P489932  
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-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

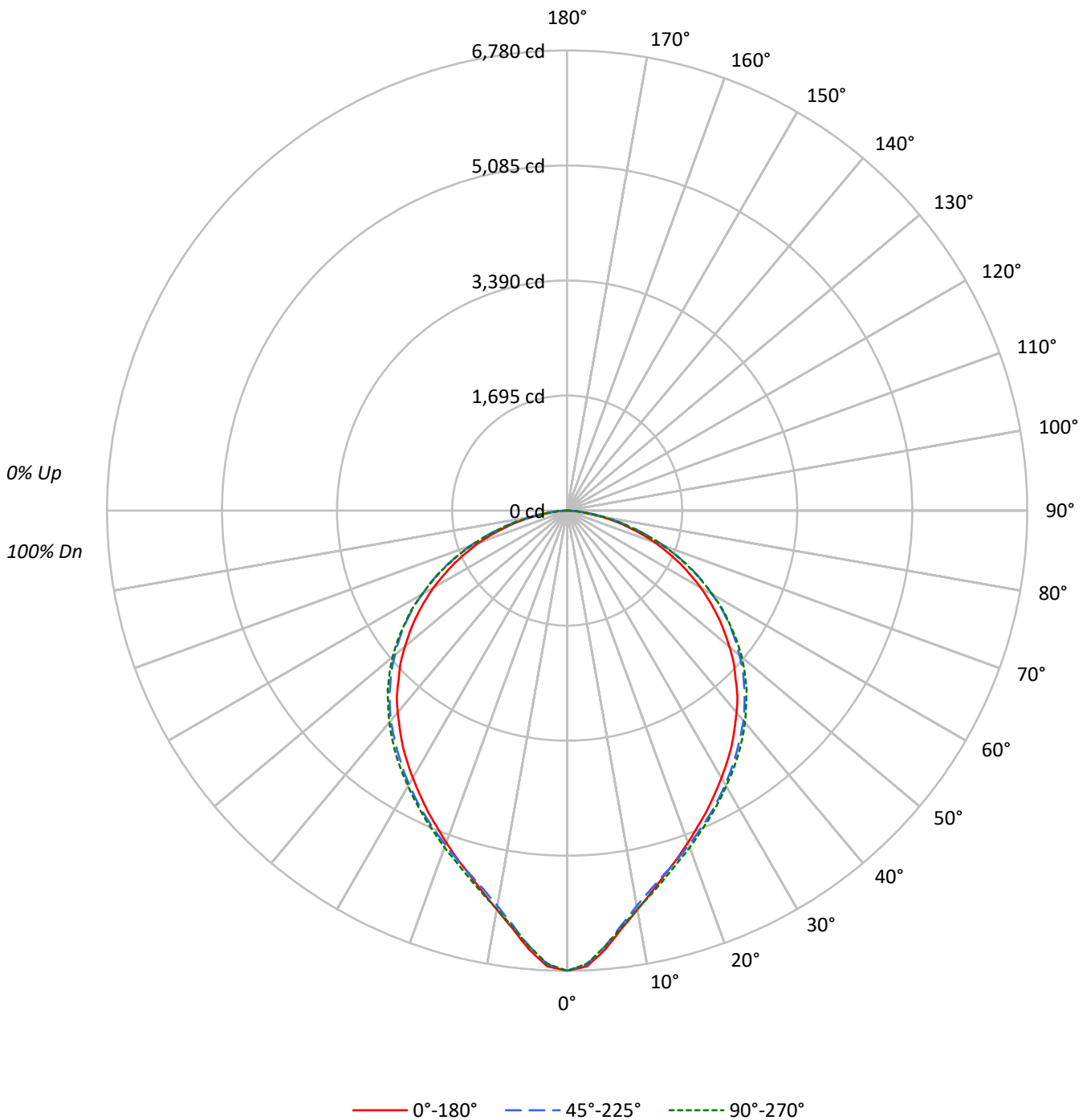
Lumens per Lamp: N/A  
Luminaire Lumens: 15748.1 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	9122	9122	9122
5°	8759	8697	8697
10°	8152	8078	8140
15°	7735	7721	7797
20°	7452	7505	7563
25°	7238	7357	7399
30°	7064	7238	7283
35°	6943	7146	7218
40°	6820	7097	7156
45°	6679	7027	7111
50°	6532	6940	7032
55°	6350	6839	6867
60°	6122	6651	6638
65°	5803	6396	6353
70°	5418	5965	5891
75°	4782	5284	5231
80°	3885	4306	4095
85°	2694	2745	2641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.1	3.8
10°-20°	1569.2	10.0
20°-30°	2281.9	14.5
30°-40°	2715.4	17.2
40°-50°	2819.6	17.9
50°-60°	2554.4	16.2
60°-70°	1927.5	12.2
70°-80°	1050.2	6.7
80°-90°	230.8	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°	4450.2	28.3
0°-40°	7165.6	45.5
0°-60°	12539.6	79.6
0°-90°	15748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15748.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6780	6780	6780	6780	6780	
5°	6485	6470	6439	6436	6439	602
15°	5553	5540	5543	5580	5597	1567
25°	4876	4916	4955	4996	4984	2247
35°	4227	4278	4350	4417	4394	2643
45°	3510	3573	3693	3734	3737	2713
55°	2707	2772	2916	2936	2927	2417
65°	1823	1875	2009	2006	1996	1802
75°	920	957	1016	1023	1006	980
85°	174	176	178	176	171	220
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6779.8	6779.8	6779.8	6779.8	6779.8
2.5°	6720.5	6713.7	6691.7	6683.2	6681.5
5°	6485.0	6469.8	6439.2	6435.9	6439.2
7.5°	6203.8	6186.8	6156.4	6168.2	6183.5
10°	5966.6	5924.3	5912.3	5929.3	5958.1
12.5°	5754.8	5721.0	5710.7	5754.8	5775.2
15°	5553.2	5539.7	5543.1	5580.4	5597.3
17.5°	5378.8	5370.3	5392.3	5421.1	5429.6
20°	5204.3	5221.3	5241.6	5272.1	5282.2
22.5°	5033.2	5065.3	5099.3	5139.9	5126.4
25°	4875.7	4916.3	4955.3	4995.9	4984.1
27.5°	4707.9	4755.3	4809.6	4853.6	4836.6
30°	4546.9	4606.2	4658.8	4712.9	4687.6
32.5°	4387.8	4443.6	4506.3	4572.4	4543.6
35°	4226.8	4277.6	4350.5	4416.6	4394.5
37.5°	4048.9	4111.6	4194.5	4252.1	4237.0
40°	3882.9	3940.5	4040.4	4077.7	4074.3
42.5°	3715.1	3762.7	3867.6	3910.0	3903.2
45°	3510.2	3572.9	3693.1	3733.9	3737.2
47.5°	3328.9	3381.5	3510.2	3542.3	3549.1
50°	3120.5	3186.6	3315.4	3354.3	3359.4
52.5°	2915.5	2986.6	3118.8	3145.9	3151.1
55°	2707.1	2771.5	2915.5	2935.9	2927.4
57.5°	2488.7	2566.6	2698.8	2708.8	2717.3
60°	2275.1	2342.9	2471.7	2485.2	2466.6
62.5°	2043.1	2112.5	2244.7	2248.0	2232.8
65°	1822.8	1875.4	2009.1	2005.8	1995.6
67.5°	1592.4	1656.8	1755.1	1758.4	1750.1
70°	1377.2	1421.3	1516.2	1517.9	1497.6
72.5°	1145.3	1192.6	1268.8	1258.7	1253.7
75°	919.9	957.2	1016.5	1023.3	1006.3
77.5°	713.2	740.3	784.4	779.3	760.6
80°	501.4	523.5	555.7	548.9	528.5
82.5°	320.1	333.8	354.1	345.6	337.1
85°	174.5	176.1	177.8	176.1	171.1
87.5°	64.4	66.1	66.1	64.4	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)