

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: P489931

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-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: P489931  
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-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

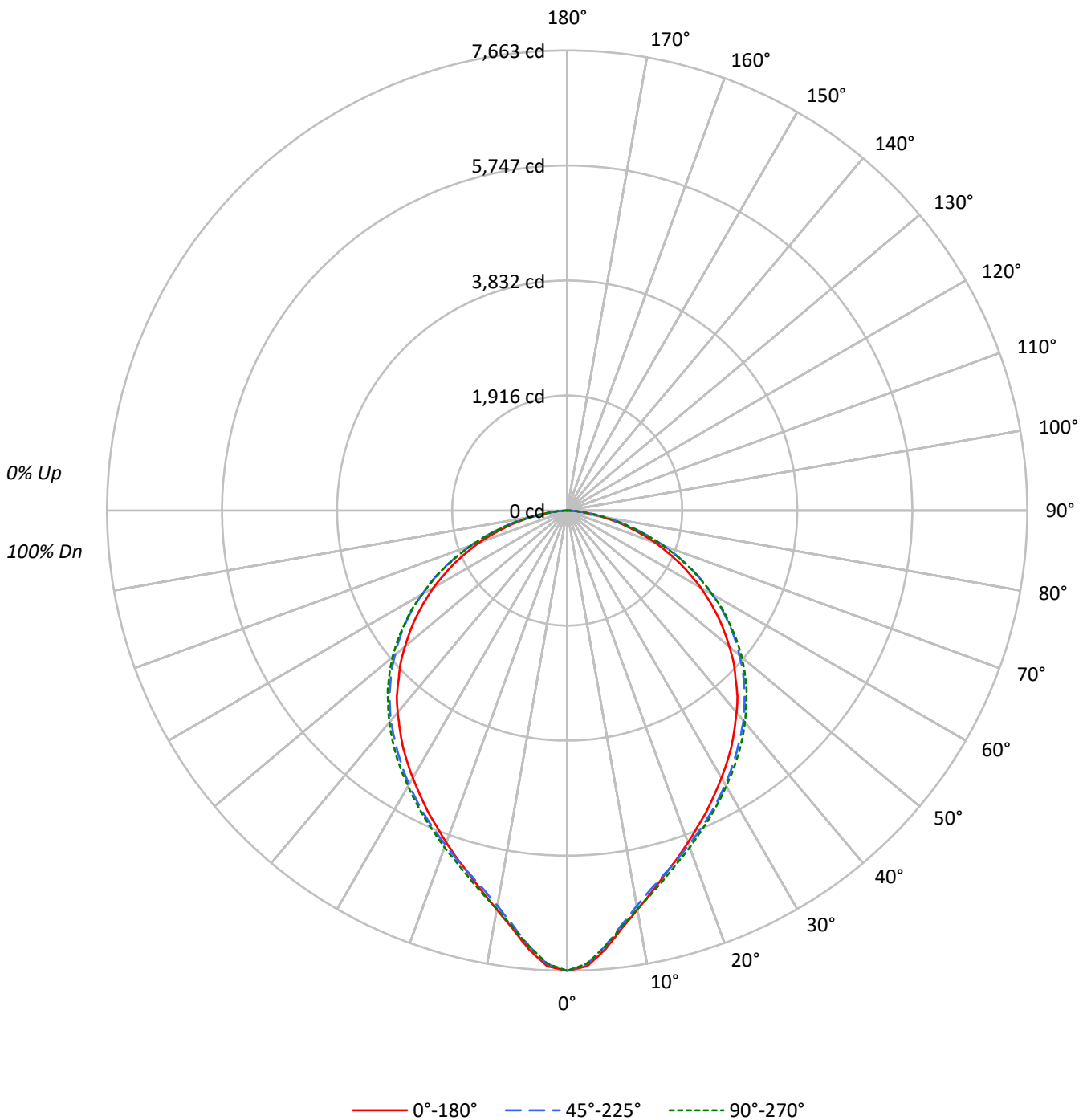
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17799.3 lumens  
Efficiency: N/A  
Efficacy: 106.9 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°	10310	10310	10310
5°	9900	9830	9830
10°	9214	9130	9201
15°	8743	8727	8812
20°	8422	8483	8548
25°	8181	8315	8363
30°	7984	8181	8231
35°	7847	8077	8158
40°	7708	8021	8088
45°	7549	7943	8037
50°	7383	7844	7948
55°	7177	7730	7762
60°	6920	7518	7502
65°	6559	7230	7181
70°	6124	6742	6659
75°	5405	5973	5913
80°	4391	4867	4628
85°	3046	3103	2986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.1	3.8
10°-20°	1773.6	10.0
20°-30°	2579.1	14.5
30°-40°	3069.1	17.2
40°-50°	3186.8	17.9
50°-60°	2887.1	16.2
60°-70°	2178.6	12.2
70°-80°	1187.0	6.7
80°-90°	260.8	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°	5029.9	28.3
0°-40°	8099.0	45.5
0°-60°	14172.9	79.6
0°-90°	17799.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17799.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7663	7663	7663	7663	7663	
5°	7330	7312	7278	7274	7278	680
15°	6276	6261	6265	6307	6326	1772
25°	5511	5557	5601	5647	5633	2539
35°	4777	4835	4917	4992	4967	2987
45°	3967	4038	4174	4220	4224	3067
55°	3060	3132	3295	3318	3309	2732
65°	2060	2120	2271	2267	2256	2037
75°	1040	1082	1149	1157	1137	1107
85°	197	199	201	199	193	249
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7662.9	7662.9	7662.9	7662.9	7662.9
2.5°	7595.8	7588.2	7563.3	7553.7	7551.7
5°	7329.7	7312.5	7278.0	7274.2	7278.0
7.5°	7011.8	6992.6	6958.3	6971.6	6988.9
10°	6743.8	6695.9	6682.4	6701.6	6734.2
12.5°	6504.4	6466.1	6454.6	6504.4	6527.5
15°	6276.5	6261.2	6265.1	6307.3	6326.3
17.5°	6079.4	6069.8	6094.7	6127.2	6136.8
20°	5882.1	5901.3	5924.3	5958.8	5970.2
22.5°	5688.8	5725.1	5763.5	5809.4	5794.1
25°	5510.7	5556.6	5600.7	5646.6	5633.3
27.5°	5321.1	5374.6	5436.0	5485.8	5466.6
30°	5139.1	5206.2	5265.6	5326.8	5298.1
32.5°	4959.3	5022.4	5093.2	5167.9	5135.4
35°	4777.3	4834.8	4917.1	4991.8	4966.9
37.5°	4576.3	4647.1	4740.9	4806.0	4788.9
40°	4388.6	4453.8	4566.7	4608.9	4605.0
42.5°	4199.0	4252.7	4371.4	4419.2	4411.6
45°	3967.4	4038.2	4174.1	4220.2	4223.9
47.5°	3762.5	3821.9	3967.4	4003.7	4011.4
50°	3527.0	3601.7	3747.2	3791.2	3797.0
52.5°	3295.2	3375.6	3525.0	3555.6	3561.5
55°	3059.7	3132.5	3295.2	3318.3	3308.7
57.5°	2812.8	2900.9	3050.3	3061.7	3071.3
60°	2571.4	2648.1	2793.6	2808.9	2787.9
62.5°	2309.2	2387.7	2537.1	2540.8	2523.6
65°	2060.2	2119.6	2270.8	2267.1	2255.5
67.5°	1799.8	1872.5	1983.7	1987.5	1978.0
70°	1556.6	1606.4	1713.7	1715.6	1692.7
72.5°	1294.4	1348.0	1434.1	1422.7	1417.0
75°	1039.7	1081.9	1148.9	1156.6	1137.4
77.5°	806.1	836.7	886.6	880.9	859.7
80°	566.7	591.6	628.1	620.4	597.3
82.5°	361.8	377.3	400.2	390.6	381.0
85°	197.3	199.1	201.0	199.1	193.4
87.5°	72.8	74.7	74.7	72.8	67.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)