

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: P489828

Luminaire Tested: **CLM-24-4-INS-P12125-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: P489828  
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-LD4-3HI-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

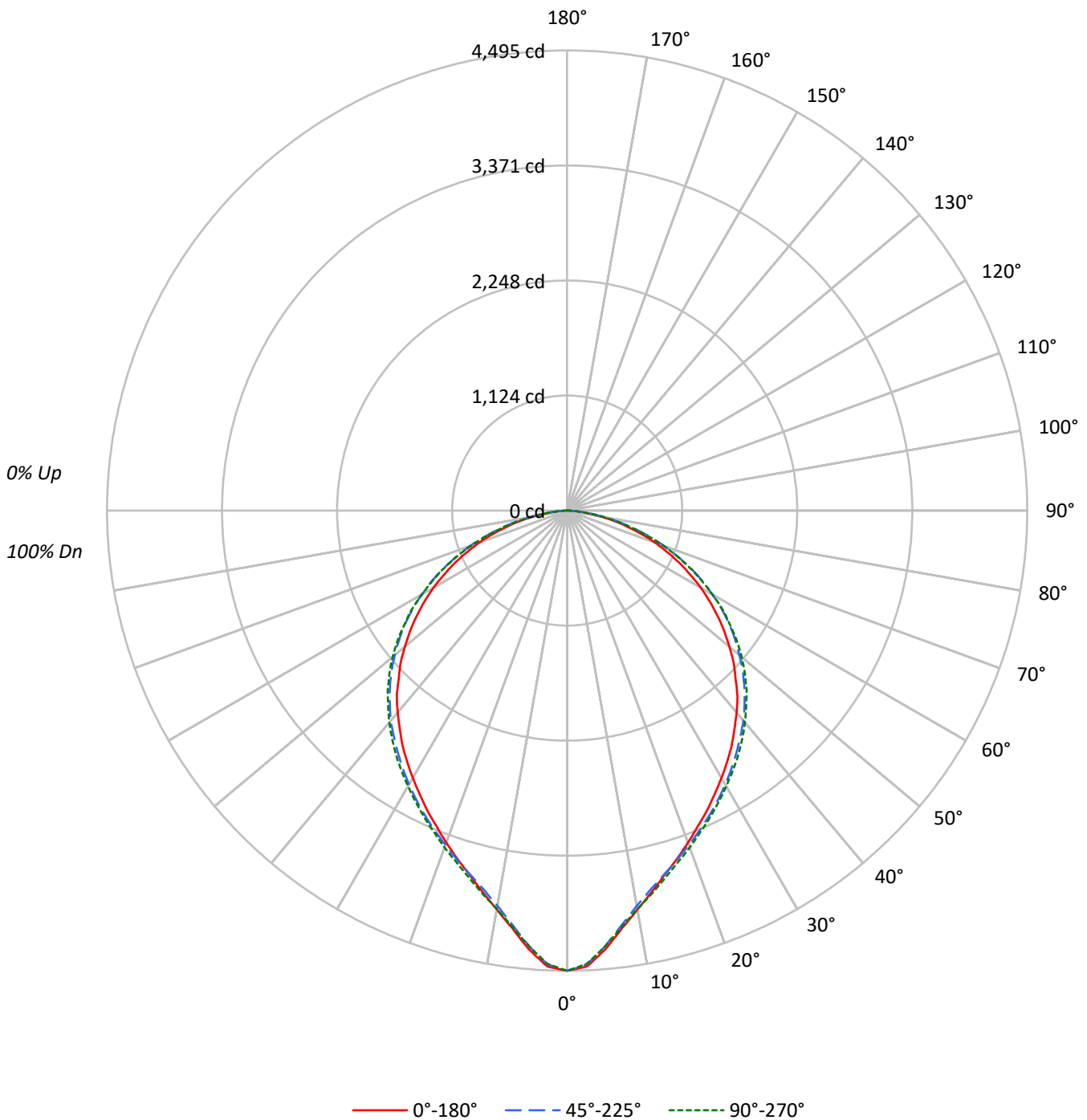
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10442.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 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): 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	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°	6049	6049	6049
5°	5808	5767	5767
10°	5405	5356	5397
15°	5129	5120	5170
20°	4941	4976	5015
25°	4800	4878	4906
30°	4684	4799	4829
35°	4603	4738	4786
40°	4522	4706	4745
45°	4429	4660	4715
50°	4331	4602	4663
55°	4211	4535	4553
60°	4059	4410	4401
65°	3848	4241	4213
70°	3592	3955	3906
75°	3171	3504	3468
80°	2576	2855	2715
85°	1786	1820	1751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	3.8
10°-20°	1040.5	10.0
20°-30°	1513.1	14.5
30°-40°	1800.5	17.2
40°-50°	1869.6	17.9
50°-60°	1693.7	16.2
60°-70°	1278.1	12.2
70°-80°	696.4	6.7
80°-90°	153.0	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°	2950.8	28.3
0°-40°	4751.3	45.5
0°-60°	8314.6	79.6
0°-90°	10442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10442.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4495	4495	4495	4495	4495	
5°	4300	4290	4270	4267	4270	399
15°	3682	3673	3675	3700	3711	1039
25°	3233	3260	3286	3313	3305	1490
35°	2803	2836	2885	2928	2914	1752
45°	2328	2369	2449	2476	2478	1799
55°	1795	1838	1933	1947	1941	1603
65°	1209	1244	1332	1330	1323	1195
75°	610	635	674	678	667	650
85°	116	117	118	117	113	146
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4495.4	4495.4	4495.4	4495.4	4495.4
2.5°	4456.1	4451.6	4437.0	4431.4	4430.2
5°	4300.0	4289.9	4269.6	4267.4	4269.6
7.5°	4113.5	4102.2	4082.1	4089.9	4100.1
10°	3956.3	3928.2	3920.3	3931.5	3950.6
12.5°	3815.8	3793.4	3786.6	3815.8	3829.4
15°	3682.1	3673.1	3675.4	3700.2	3711.3
17.5°	3566.5	3560.9	3575.5	3594.6	3600.2
20°	3450.8	3462.0	3475.5	3495.7	3502.4
22.5°	3337.3	3358.6	3381.2	3408.1	3399.1
25°	3232.9	3259.8	3285.7	3312.6	3304.8
27.5°	3121.6	3153.0	3189.0	3218.3	3207.0
30°	3014.9	3054.2	3089.1	3125.0	3108.2
32.5°	2909.4	2946.4	2988.0	3031.8	3012.7
35°	2802.6	2836.3	2884.6	2928.5	2913.9
37.5°	2684.7	2726.2	2781.2	2819.4	2809.4
40°	2574.6	2612.8	2679.1	2703.8	2701.5
42.5°	2463.4	2494.9	2564.5	2592.6	2588.1
45°	2327.5	2369.0	2448.8	2475.8	2478.0
47.5°	2207.3	2242.1	2327.5	2348.8	2353.3
50°	2069.1	2112.9	2198.3	2224.1	2227.5
52.5°	1933.2	1980.3	2068.0	2085.9	2089.4
55°	1795.0	1837.7	1933.2	1946.7	1941.1
57.5°	1650.1	1701.8	1789.5	1796.1	1801.8
60°	1508.5	1553.5	1638.9	1647.8	1635.5
62.5°	1354.7	1400.7	1488.4	1490.6	1480.5
65°	1208.6	1243.5	1332.2	1330.0	1323.2
67.5°	1055.9	1098.5	1163.7	1165.9	1160.4
70°	913.2	942.4	1005.3	1006.5	993.0
72.5°	759.4	790.8	841.3	834.6	831.3
75°	609.9	634.7	674.0	678.5	667.2
77.5°	472.9	490.9	520.1	516.8	504.3
80°	332.5	347.1	368.5	364.0	350.4
82.5°	212.3	221.3	234.8	229.2	223.5
85°	115.7	116.8	117.9	116.8	113.4
87.5°	42.7	43.8	43.8	42.7	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)