

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: P489922

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-20-120-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: P489922  
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-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

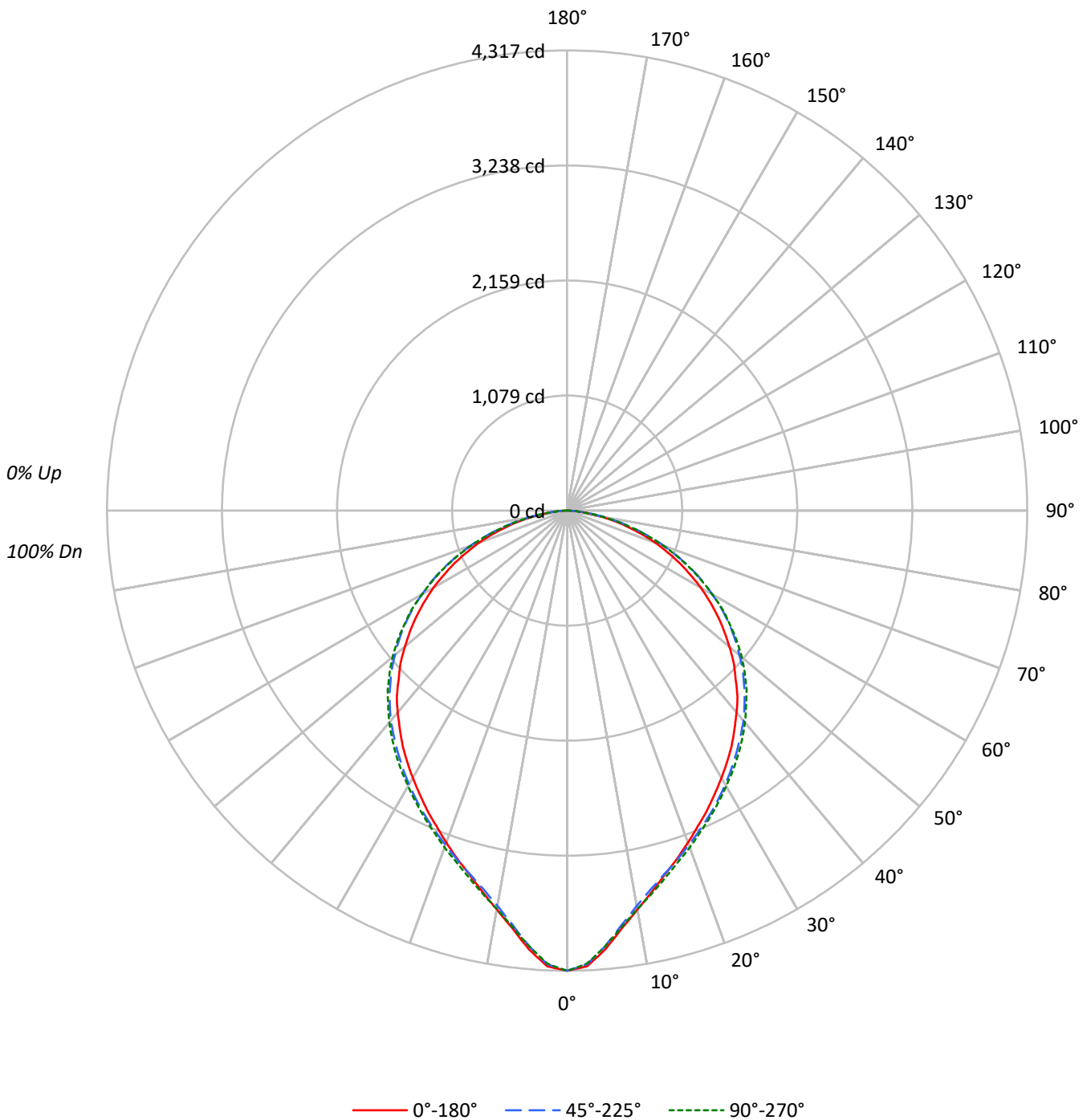
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10027.3 lumens  
Efficiency: N/A  
Efficacy: 60.2 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°	5808	5808	5808
5°	5577	5538	5538
10°	5191	5143	5183
15°	4925	4916	4964
20°	4745	4779	4816
25°	4609	4684	4711
30°	4498	4609	4637
35°	4421	4550	4596
40°	4343	4519	4556
45°	4253	4474	4528
50°	4159	4419	4478
55°	4043	4355	4373
60°	3898	4235	4226
65°	3695	4073	4046
70°	3450	3798	3751
75°	3045	3365	3331
80°	2474	2741	2607
85°	1715	1748	1681



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.5	3.8
10°-20°	999.2	10.0
20°-30°	1453.0	14.5
30°-40°	1729.0	17.2
40°-50°	1795.3	17.9
50°-60°	1626.4	16.2
60°-70°	1227.3	12.2
70°-80°	668.7	6.7
80°-90°	146.9	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°	2833.6	28.3
0°-40°	4562.6	45.5
0°-60°	7984.3	79.6
0°-90°	10027.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10027.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4317	4317	4317	4317	4317	
5°	4129	4120	4100	4098	4100	383
15°	3536	3527	3530	3553	3564	998
25°	3104	3130	3155	3181	3174	1431
35°	2691	2724	2770	2812	2798	1683
45°	2235	2275	2352	2378	2380	1728
55°	1724	1765	1856	1869	1864	1539
65°	1161	1194	1279	1277	1271	1147
75°	586	610	647	652	641	624
85°	111	112	113	112	109	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4316.9	4316.9	4316.9	4316.9	4316.9
2.5°	4279.1	4274.8	4260.8	4255.4	4254.3
5°	4129.2	4119.5	4100.1	4098.0	4100.1
7.5°	3950.1	3939.3	3920.0	3927.5	3937.2
10°	3799.1	3772.2	3764.6	3775.4	3793.7
12.5°	3664.3	3642.7	3636.2	3664.3	3677.3
15°	3535.9	3527.3	3529.5	3553.2	3563.9
17.5°	3424.8	3419.4	3433.5	3451.8	3457.2
20°	3313.7	3324.5	3337.5	3356.9	3363.3
22.5°	3204.8	3225.2	3246.9	3272.7	3264.1
25°	3104.5	3130.3	3155.2	3181.0	3173.5
27.5°	2997.7	3027.8	3062.4	3090.5	3079.6
30°	2895.1	2932.9	2966.4	3000.9	2984.7
32.5°	2793.8	2829.4	2869.3	2911.4	2893.0
35°	2691.3	2723.7	2770.1	2812.2	2798.1
37.5°	2578.1	2618.0	2670.8	2707.5	2697.8
40°	2472.4	2509.0	2572.7	2596.4	2594.2
42.5°	2365.5	2395.8	2462.6	2489.6	2485.3
45°	2235.1	2274.9	2351.5	2377.5	2379.6
47.5°	2119.6	2153.1	2235.1	2255.5	2259.8
50°	1986.9	2029.0	2111.0	2135.8	2139.1
52.5°	1856.4	1901.7	1985.8	2003.1	2006.4
55°	1723.7	1764.7	1856.4	1869.4	1864.0
57.5°	1584.6	1634.2	1718.4	1724.8	1730.2
60°	1448.6	1491.8	1573.8	1582.4	1570.6
62.5°	1300.9	1345.1	1429.3	1431.4	1421.7
65°	1160.6	1194.1	1279.3	1277.2	1270.7
67.5°	1013.9	1054.9	1117.5	1119.6	1114.3
70°	876.9	905.0	965.4	966.5	953.6
72.5°	729.2	759.4	807.9	801.5	798.3
75°	585.7	609.5	647.2	651.6	640.7
77.5°	454.1	471.4	499.4	496.2	484.3
80°	319.3	333.3	353.8	349.5	336.5
82.5°	203.8	212.5	225.5	220.1	214.6
85°	111.1	112.1	113.2	112.1	108.9
87.5°	41.0	42.1	42.1	41.0	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)