

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: P489799

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-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: P489799  
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-LD4-2HI-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

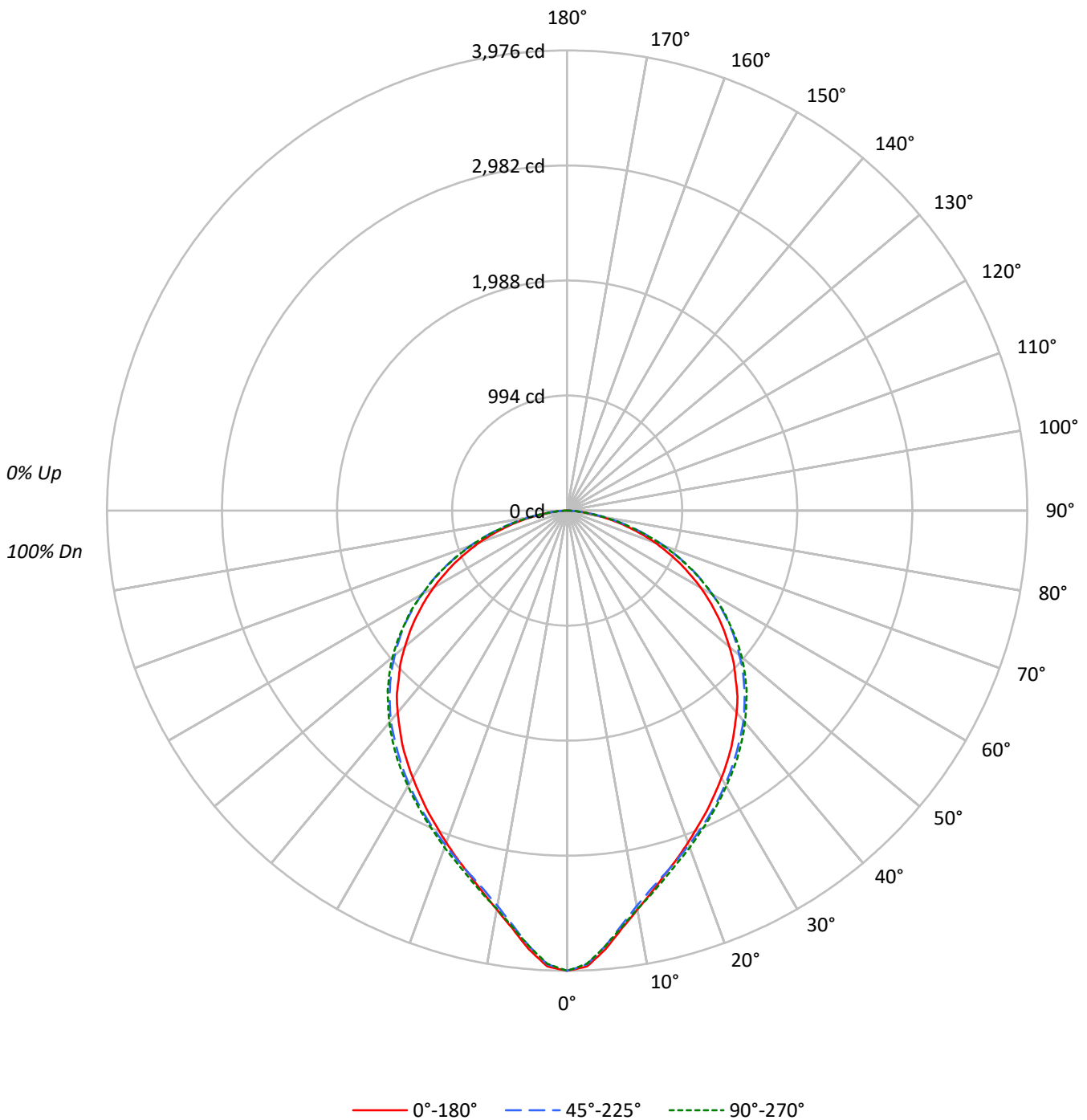
Lumens per Lamp: N/A  
Luminaire Lumens: 9236.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	5350	5350	5350
5°	5137	5101	5101
10°	4781	4738	4774
15°	4537	4529	4573
20°	4371	4402	4436
25°	4245	4315	4340
30°	4143	4245	4271
35°	4072	4191	4233
40°	4000	4162	4197
45°	3918	4121	4171
50°	3831	4070	4124
55°	3724	4011	4028
60°	3591	3901	3893
65°	3404	3752	3726
70°	3178	3498	3456
75°	2805	3099	3068
80°	2279	2525	2402
85°	1581	1610	1548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.4	3.8
10°-20°	920.4	10.0
20°-30°	1338.4	14.5
30°-40°	1592.6	17.2
40°-50°	1653.7	17.9
50°-60°	1498.2	16.2
60°-70°	1130.5	12.2
70°-80°	616.0	6.7
80°-90°	135.4	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°	2610.1	28.3
0°-40°	4202.7	45.5
0°-60°	7354.6	79.6
0°-90°	9236.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9236.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3976	3976	3976	3976	3976	
5°	3804	3795	3777	3775	3777	353
15°	3257	3249	3251	3273	3283	919
25°	2860	2883	2906	2930	2923	1318
35°	2479	2509	2552	2590	2577	1550
45°	2059	2096	2166	2190	2192	1591
55°	1588	1626	1710	1722	1717	1418
65°	1069	1100	1178	1176	1170	1057
75°	540	561	596	600	590	575
85°	102	103	104	103	100	129
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3976.4	3976.4	3976.4	3976.4	3976.4
2.5°	3941.6	3937.7	3924.7	3919.7	3918.7
5°	3803.5	3794.6	3776.7	3774.7	3776.7
7.5°	3638.6	3628.6	3610.8	3617.7	3626.7
10°	3499.5	3474.6	3467.6	3477.6	3494.5
12.5°	3375.2	3355.4	3349.4	3375.2	3387.2
15°	3257.0	3249.1	3251.1	3273.0	3282.8
17.5°	3154.7	3149.7	3162.7	3179.5	3184.5
20°	3052.4	3062.3	3074.2	3092.1	3098.0
22.5°	2952.0	2970.8	2990.8	3014.6	3006.7
25°	2859.6	2883.4	2906.3	2930.1	2923.2
27.5°	2761.2	2789.0	2820.8	2846.7	2836.7
30°	2666.8	2701.6	2732.4	2764.2	2749.3
32.5°	2573.5	2606.2	2643.0	2681.7	2664.9
35°	2479.0	2508.9	2551.6	2590.4	2577.4
37.5°	2374.7	2411.5	2460.1	2493.9	2485.0
40°	2277.4	2311.1	2369.8	2391.6	2389.6
42.5°	2179.0	2206.8	2268.4	2293.2	2289.3
45°	2058.8	2095.5	2166.0	2189.9	2191.9
47.5°	1952.4	1983.3	2058.8	2077.6	2081.6
50°	1830.2	1869.0	1944.5	1967.3	1970.3
52.5°	1710.0	1751.7	1829.2	1845.1	1848.1
55°	1587.7	1625.5	1710.0	1722.0	1717.0
57.5°	1459.6	1505.3	1582.8	1588.8	1593.7
60°	1334.4	1374.1	1449.7	1457.6	1446.7
62.5°	1198.3	1239.0	1316.5	1318.5	1309.5
65°	1069.1	1099.9	1178.4	1176.4	1170.4
67.5°	933.9	971.7	1029.4	1031.3	1026.4
70°	807.8	833.6	889.3	890.3	878.4
72.5°	671.7	699.5	744.2	738.3	735.3
75°	539.5	561.4	596.2	600.2	590.2
77.5°	418.3	434.2	460.0	457.1	446.1
80°	294.1	307.0	325.9	322.0	310.0
82.5°	187.8	195.8	207.7	202.7	197.7
85°	102.4	103.3	104.3	103.3	100.3
87.5°	37.8	38.8	38.8	37.8	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)