

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: P489492

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-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: P489492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-3STD-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

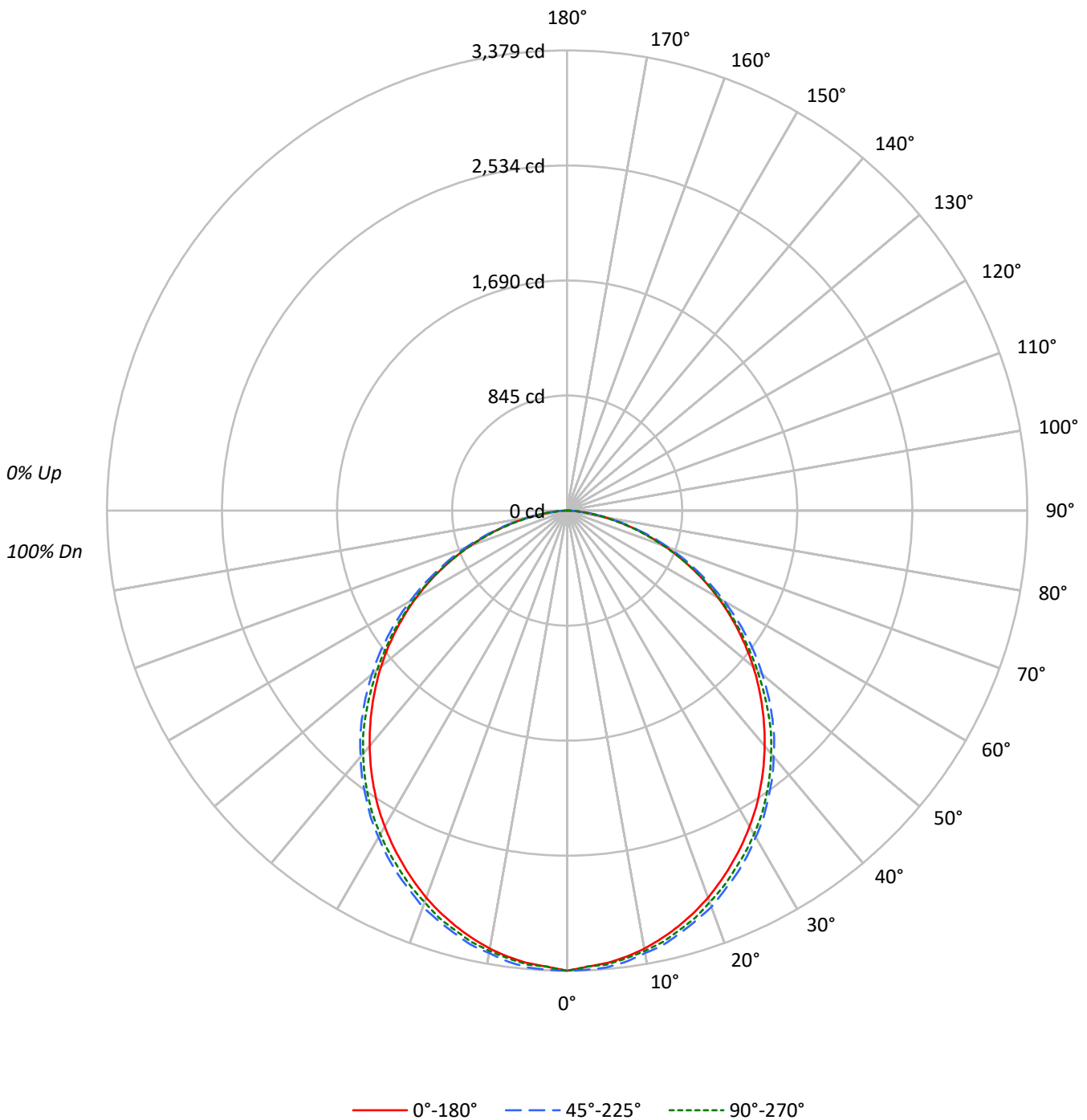
Lumens per Lamp: N/A  
Luminaire Lumens: 8883.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4546	4546	4546
5°	4504	4547	4519
10°	4463	4508	4487
15°	4401	4472	4441
20°	4332	4435	4382
25°	4248	4371	4321
30°	4162	4303	4264
35°	4068	4229	4190
40°	3962	4145	4092
45°	3851	4046	3969
50°	3736	3916	3814
55°	3600	3768	3653
60°	3447	3589	3479
65°	3248	3372	3251
70°	2989	3109	2956
75°	2632	2751	2591
80°	2139	2232	2114
85°	1490	1587	1548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.2	3.6
10°-20°	901.8	10.2
20°-30°	1345.0	15.1
30°-40°	1593.9	17.9
40°-50°	1612.7	18.2
50°-60°	1408.5	15.9
60°-70°	1029.3	11.6
70°-80°	547.7	6.2
80°-90°	126.6	1.4
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°	2565.1	28.9
0°-40°	4159.0	46.8
0°-60°	7180.2	80.8
0°-90°	8883.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8883.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3379	3379	3379	3379	3379	
5°	3335	3341	3366	3374	3346	316
15°	3160	3181	3211	3230	3188	891
25°	2861	2896	2944	2955	2910	1318
35°	2477	2515	2575	2593	2551	1549
45°	2024	2060	2126	2128	2086	1561
55°	1535	1566	1606	1583	1557	1372
65°	1020	1041	1059	1038	1021	1010
75°	506	518	529	510	498	538
85°	96	98	103	104	100	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3379.0	3379.0	3379.0	3379.0	3379.0
2.5°	3352.6	3363.6	3374.8	3379.7	3352.3
5°	3335.0	3341.4	3366.4	3374.1	3345.6
7.5°	3306.2	3315.7	3340.0	3343.5	3316.0
10°	3266.7	3283.6	3299.8	3317.4	3284.0
12.5°	3216.4	3239.3	3266.7	3269.9	3244.6
15°	3159.7	3180.8	3210.8	3230.1	3188.2
17.5°	3096.3	3116.8	3155.5	3159.0	3133.7
20°	3025.6	3050.9	3097.4	3105.5	3060.1
22.5°	2945.3	2979.5	3018.2	3025.9	2992.5
25°	2861.2	2896.4	2944.3	2955.2	2910.5
27.5°	2773.2	2807.0	2860.8	2868.6	2830.9
30°	2678.8	2710.5	2769.6	2782.7	2744.3
32.5°	2583.0	2614.7	2680.2	2691.1	2653.8
35°	2476.7	2515.4	2574.9	2592.9	2551.0
37.5°	2368.3	2406.0	2473.6	2489.7	2444.7
40°	2256.0	2293.3	2359.8	2373.2	2329.9
42.5°	2141.2	2178.5	2249.6	2251.8	2215.8
45°	2024.0	2059.9	2126.1	2127.8	2085.9
47.5°	1905.0	1941.2	2000.4	1993.7	1954.3
50°	1784.6	1819.1	1870.8	1857.5	1821.9
52.5°	1659.9	1693.4	1742.3	1720.5	1687.1
55°	1534.6	1565.6	1606.4	1583.2	1557.1
57.5°	1408.2	1439.6	1470.9	1447.3	1424.8
60°	1280.8	1308.2	1333.9	1310.0	1292.8
62.5°	1151.2	1174.8	1197.0	1174.1	1157.9
65°	1020.3	1041.0	1059.3	1038.2	1021.0
67.5°	890.0	907.6	924.5	902.7	884.7
70°	759.7	774.9	790.4	767.8	751.3
72.5°	631.2	644.6	658.3	636.5	622.1
75°	506.3	517.9	529.1	509.8	498.5
77.5°	386.9	396.8	404.5	392.2	381.3
80°	276.0	283.4	288.0	283.1	272.8
82.5°	177.4	182.7	185.2	184.8	178.1
85°	96.5	98.2	102.8	103.9	100.3
87.5°	37.3	39.8	40.8	44.0	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)