

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: P489481

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-27-120-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: P489481  
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-LD4-3LO-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

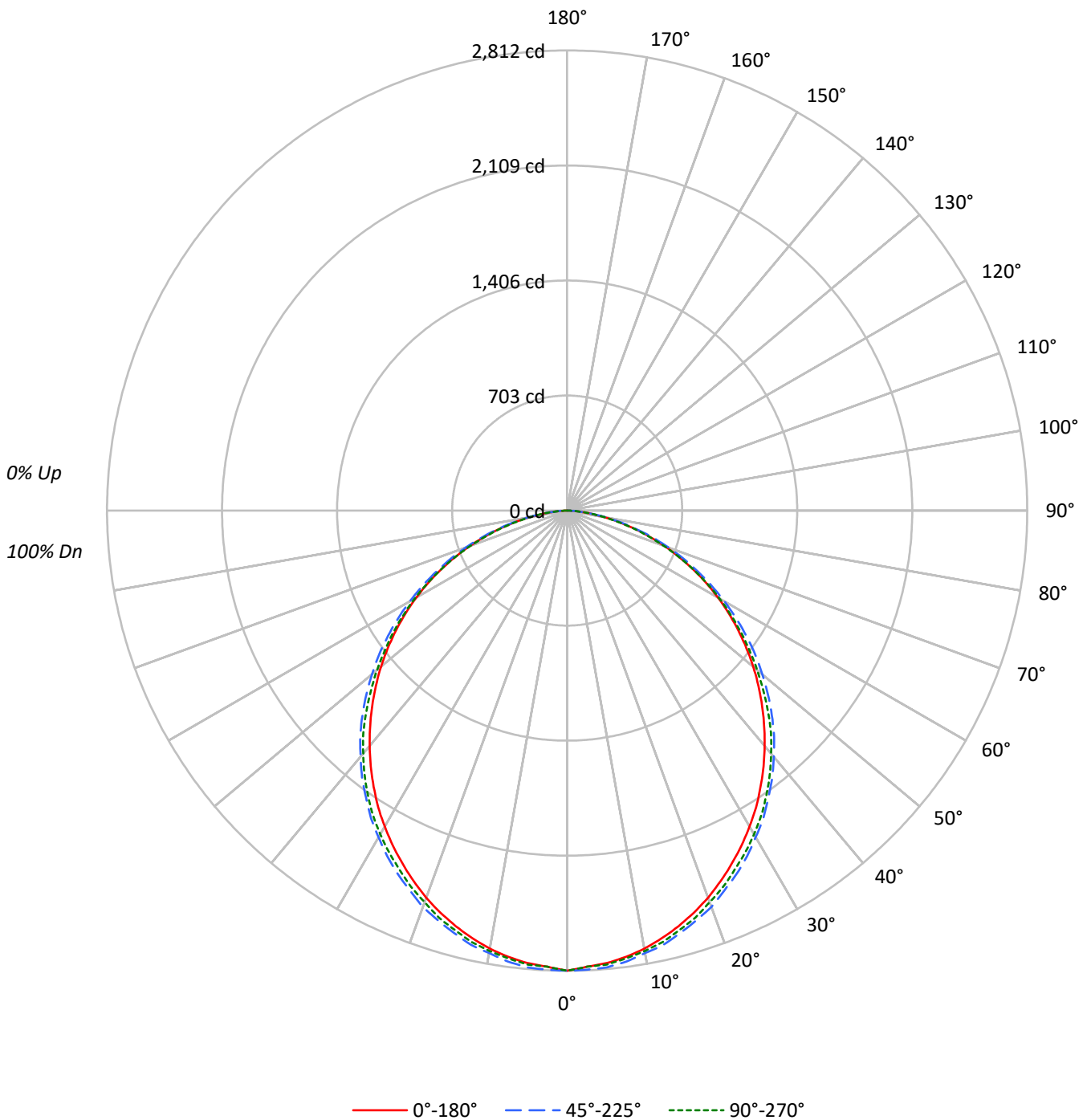
Lumens per Lamp: N/A  
Luminaire Lumens: 7393.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	3784	3784	3784
5°	3749	3784	3760
10°	3714	3752	3734
15°	3663	3722	3696
20°	3605	3691	3646
25°	3535	3638	3596
30°	3464	3581	3548
35°	3385	3520	3487
40°	3297	3449	3406
45°	3205	3367	3303
50°	3109	3259	3174
55°	2996	3136	3040
60°	2868	2987	2895
65°	2703	2807	2705
70°	2487	2587	2460
75°	2190	2289	2157
80°	1780	1857	1760
85°	1240	1321	1289



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.8	3.6
10°-20°	750.5	10.2
20°-30°	1119.3	15.1
30°-40°	1326.4	17.9
40°-50°	1342.1	18.2
50°-60°	1172.2	15.9
60°-70°	856.6	11.6
70°-80°	455.8	6.2
80°-90°	105.3	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°	2134.7	28.9
0°-40°	3461.1	46.8
0°-60°	5975.4	80.8
0°-90°	7393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2812	2812	2812	2812	2812	
5°	2775	2781	2802	2808	2784	263
15°	2630	2647	2672	2688	2653	741
25°	2381	2410	2450	2459	2422	1097
35°	2061	2093	2143	2158	2123	1289
45°	1684	1714	1769	1771	1736	1299
55°	1277	1303	1337	1318	1296	1142
65°	849	866	882	864	850	840
75°	421	431	440	424	415	448
85°	80	82	86	86	84	102
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2812.0	2812.0	2812.0	2812.0	2812.0
2.5°	2790.1	2799.1	2808.5	2812.6	2789.8
5°	2775.4	2780.7	2801.5	2807.9	2784.2
7.5°	2751.4	2759.3	2779.5	2782.4	2759.6
10°	2718.6	2732.6	2746.1	2760.8	2732.9
12.5°	2676.7	2695.7	2718.6	2721.2	2700.1
15°	2629.5	2647.1	2672.0	2688.1	2653.2
17.5°	2576.8	2593.8	2626.0	2628.9	2607.8
20°	2517.9	2539.0	2577.6	2584.4	2546.6
22.5°	2451.1	2479.5	2511.7	2518.2	2490.3
25°	2381.1	2410.4	2450.2	2459.3	2422.1
27.5°	2307.8	2335.9	2380.8	2387.2	2355.9
30°	2229.3	2255.7	2304.9	2315.7	2283.8
32.5°	2149.6	2176.0	2230.5	2239.5	2208.5
35°	2061.1	2093.4	2142.9	2157.8	2122.9
37.5°	1970.9	2002.2	2058.5	2072.0	2034.5
40°	1877.4	1908.5	1963.9	1975.0	1938.9
42.5°	1781.9	1813.0	1872.2	1873.9	1844.0
45°	1684.3	1714.2	1769.3	1770.8	1735.9
47.5°	1585.3	1615.5	1664.7	1659.2	1626.3
50°	1485.1	1513.8	1556.9	1545.8	1516.2
52.5°	1381.4	1409.2	1450.0	1431.8	1404.0
55°	1277.1	1302.9	1336.9	1317.5	1295.9
57.5°	1171.9	1198.0	1224.1	1204.4	1185.7
60°	1065.9	1088.7	1110.1	1090.2	1075.8
62.5°	958.0	977.7	996.1	977.1	963.6
65°	849.1	866.3	881.6	864.0	849.6
67.5°	740.7	755.3	769.4	751.2	736.3
70°	632.3	644.9	657.7	639.0	625.2
72.5°	525.3	536.4	547.9	529.7	517.7
75°	421.3	431.0	440.4	424.2	414.9
77.5°	322.0	330.2	336.6	326.4	317.3
80°	229.7	235.8	239.7	235.6	227.1
82.5°	147.7	152.1	154.1	153.8	148.2
85°	80.3	81.7	85.6	86.4	83.5
87.5°	31.1	33.1	34.0	36.6	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)