

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: P488619

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-30-120-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: P488619  
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-12-4-INS-A12125-LD4-3LO-30-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

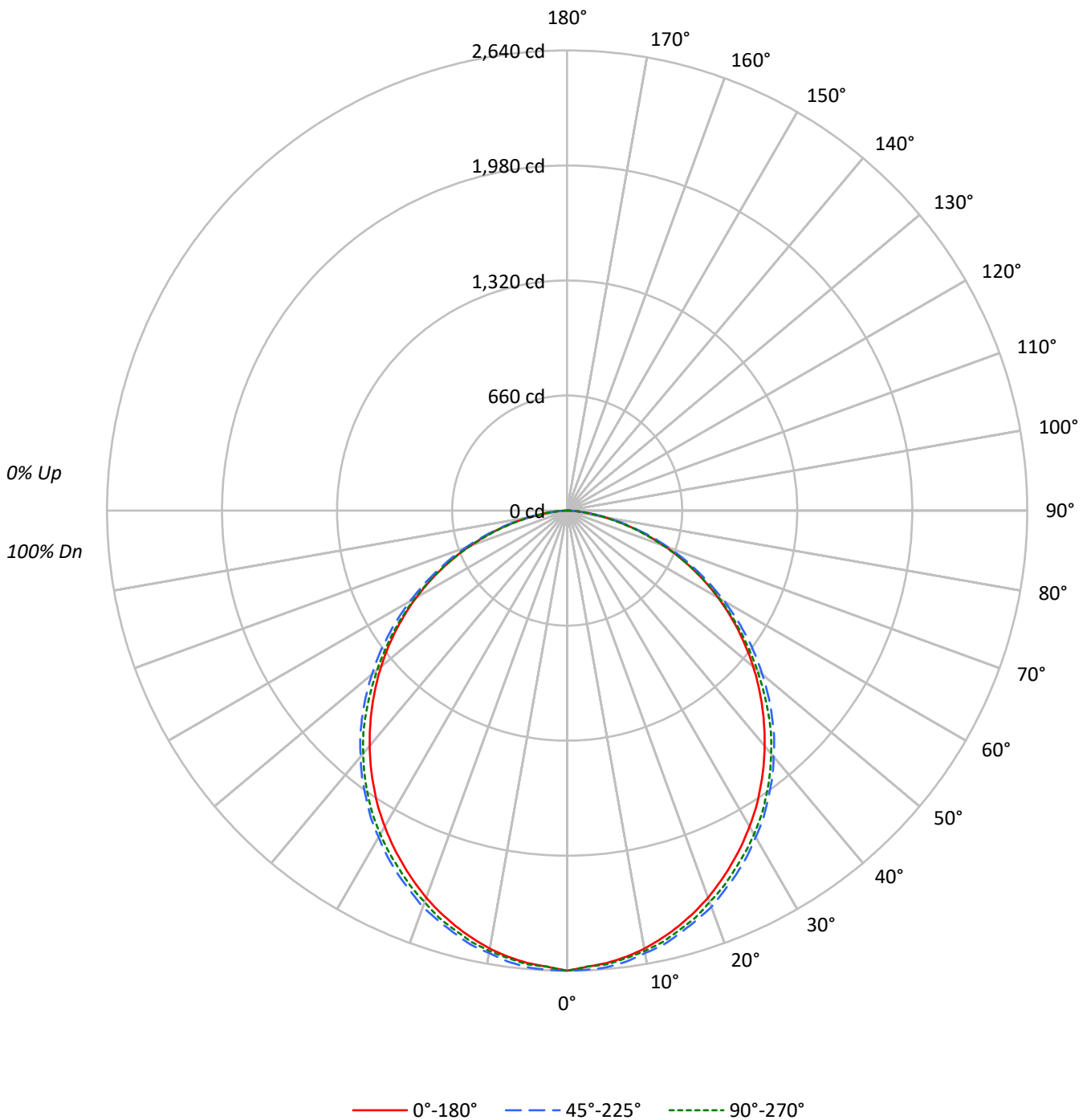
Lumens per Lamp: N/A  
Luminaire Lumens: 6940.2 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	7104	7104	7104
5°	7038	7104	7060
10°	6974	7044	7010
15°	6877	6988	6939
20°	6769	6930	6846
25°	6637	6829	6751
30°	6503	6723	6662
35°	6356	6608	6547
40°	6191	6476	6394
45°	6017	6321	6202
50°	5837	6118	5959
55°	5625	5888	5707
60°	5385	5609	5435
65°	5075	5270	5079
70°	4670	4858	4618
75°	4112	4298	4050
80°	3341	3487	3304
85°	2328	2479	2421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.6	3.6
10°-20°	704.5	10.2
20°-30°	1050.8	15.1
30°-40°	1245.2	17.9
40°-50°	1259.9	18.2
50°-60°	1100.4	15.9
60°-70°	804.1	11.6
70°-80°	427.9	6.2
80°-90°	98.9	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°	2003.9	28.9
0°-40°	3249.1	46.8
0°-60°	5609.4	80.8
0°-90°	6940.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6940.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2640	2640	2640	2640	2640	
5°	2605	2610	2630	2636	2614	247
15°	2468	2485	2508	2524	2491	696
25°	2235	2263	2300	2309	2274	1030
35°	1935	1965	2012	2026	1993	1210
45°	1581	1609	1661	1662	1630	1220
55°	1199	1223	1255	1237	1216	1072
65°	797	813	828	811	798	789
75°	396	405	413	398	390	420
85°	75	77	80	81	78	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2639.8	2639.8	2639.8	2639.8	2639.8
2.5°	2619.2	2627.7	2636.5	2640.4	2618.9
5°	2605.4	2610.4	2629.9	2636.0	2613.7
7.5°	2582.9	2590.3	2609.3	2612.0	2590.6
10°	2552.1	2565.3	2577.9	2591.7	2565.5
12.5°	2512.7	2530.6	2552.1	2554.5	2534.7
15°	2468.5	2485.0	2508.3	2523.5	2490.7
17.5°	2419.0	2434.9	2465.2	2467.9	2448.1
20°	2363.7	2383.5	2419.8	2426.1	2390.6
22.5°	2301.0	2327.6	2357.9	2363.9	2337.8
25°	2235.2	2262.7	2300.1	2308.7	2273.7
27.5°	2166.5	2192.9	2235.0	2241.0	2211.6
30°	2092.8	2117.5	2163.7	2173.9	2143.9
32.5°	2017.9	2042.7	2093.9	2102.4	2073.2
35°	1934.9	1965.1	2011.6	2025.6	1992.9
37.5°	1850.2	1879.6	1932.4	1945.1	1909.9
40°	1762.4	1791.6	1843.6	1854.0	1820.2
42.5°	1672.8	1701.9	1757.5	1759.1	1731.1
45°	1581.2	1609.2	1660.9	1662.3	1629.6
47.5°	1488.2	1516.6	1562.8	1557.5	1526.7
50°	1394.2	1421.1	1461.5	1451.1	1423.3
52.5°	1296.8	1322.9	1361.2	1344.1	1318.0
55°	1198.9	1223.1	1255.0	1236.8	1216.5
57.5°	1100.1	1124.6	1149.1	1130.7	1113.1
60°	1000.6	1022.0	1042.1	1023.4	1009.9
62.5°	899.4	917.8	935.1	917.2	904.6
65°	797.1	813.3	827.6	811.1	797.6
67.5°	695.3	709.0	722.2	705.2	691.2
70°	593.5	605.4	617.5	599.9	586.9
72.5°	493.1	503.6	514.3	497.3	486.0
75°	395.5	404.6	413.4	398.3	389.5
77.5°	302.3	310.0	316.0	306.4	297.9
80°	215.6	221.4	225.0	221.1	213.2
82.5°	138.6	142.7	144.7	144.4	139.2
85°	75.4	76.7	80.3	81.1	78.4
87.5°	29.2	31.1	31.9	34.4	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)