

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: P488593

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-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: P488593  
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-LD4-2STD-27-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

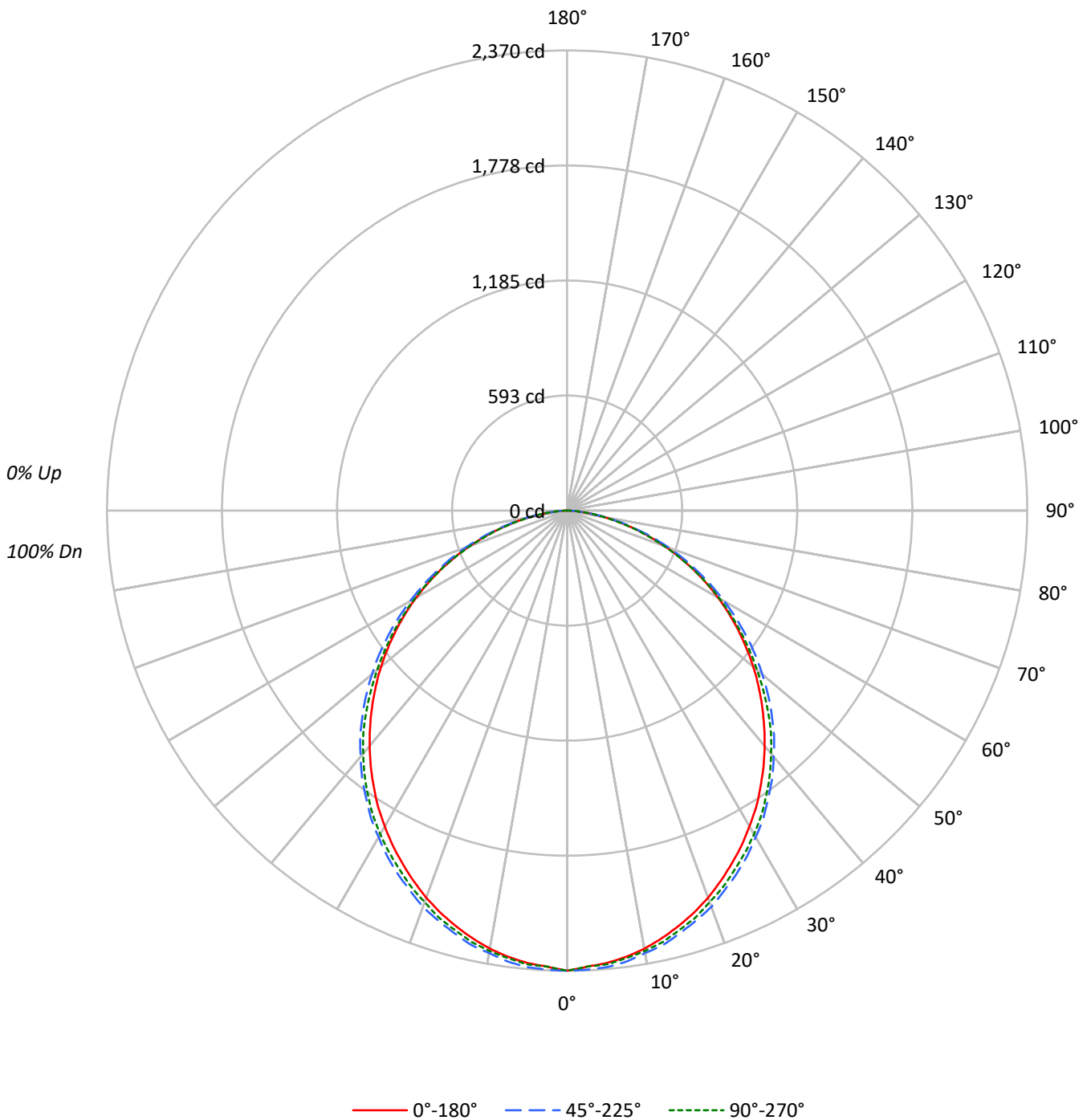
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6230.1 lumens  
Efficiency: N/A  
Efficacy: 93.5 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): 66.6  
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°	6377	6377	6377
5°	6318	6377	6338
10°	6260	6324	6293
15°	6173	6273	6229
20°	6076	6220	6145
25°	5958	6131	6060
30°	5837	6035	5980
35°	5706	5932	5877
40°	5558	5813	5740
45°	5402	5674	5567
50°	5239	5493	5349
55°	5049	5286	5123
60°	4834	5035	4879
65°	4556	4730	4559
70°	4192	4361	4146
75°	3691	3858	3635
80°	3000	3130	2965
85°	2087	2226	2174



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.2	3.6
10°-20°	632.4	10.2
20°-30°	943.3	15.1
30°-40°	1117.8	17.9
40°-50°	1131.0	18.2
50°-60°	987.8	15.9
60°-70°	721.8	11.6
70°-80°	384.1	6.2
80°-90°	88.8	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°	1798.9	28.9
0°-40°	2916.7	46.8
0°-60°	5035.4	80.8
0°-90°	6230.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6230.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2339	2343	2361	2366	2346	222
15°	2216	2231	2252	2265	2236	625
25°	2006	2031	2065	2072	2041	924
35°	1737	1764	1806	1818	1789	1086
45°	1419	1445	1491	1492	1463	1095
55°	1076	1098	1127	1110	1092	962
65°	716	730	743	728	716	708
75°	355	363	371	358	350	377
85°	68	69	72	73	70	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2369.7	2369.7	2369.7	2369.7	2369.7
2.5°	2351.2	2358.8	2366.7	2370.2	2350.9
5°	2338.8	2343.3	2360.8	2366.3	2346.3
7.5°	2318.6	2325.3	2342.3	2344.8	2325.5
10°	2290.9	2302.8	2314.2	2326.5	2303.0
12.5°	2255.6	2271.7	2290.9	2293.2	2275.4
15°	2215.9	2230.7	2251.7	2265.3	2235.9
17.5°	2171.5	2185.8	2212.9	2215.4	2197.6
20°	2121.8	2139.6	2172.2	2177.9	2146.0
22.5°	2065.5	2089.5	2116.6	2122.1	2098.6
25°	2006.5	2031.2	2064.8	2072.4	2041.1
27.5°	1944.8	1968.5	2006.3	2011.7	1985.3
30°	1878.6	1900.9	1942.3	1951.5	1924.6
32.5°	1811.5	1833.7	1879.6	1887.3	1861.1
35°	1736.9	1764.1	1805.8	1818.4	1789.0
37.5°	1660.9	1687.3	1734.7	1746.0	1714.4
40°	1582.1	1608.3	1654.9	1664.3	1634.0
42.5°	1501.6	1527.8	1577.7	1579.1	1554.0
45°	1419.4	1444.6	1491.0	1492.2	1462.9
47.5°	1336.0	1361.4	1402.9	1398.2	1370.5
50°	1251.5	1275.7	1312.0	1302.6	1277.7
52.5°	1164.1	1187.6	1221.9	1206.6	1183.1
55°	1076.2	1097.9	1126.6	1110.3	1092.0
57.5°	987.6	1009.6	1031.5	1015.0	999.2
60°	898.2	917.5	935.5	918.7	906.6
62.5°	807.4	823.9	839.4	823.4	812.0
65°	715.5	730.1	742.9	728.1	716.0
67.5°	624.2	636.5	648.3	633.0	620.4
70°	532.8	543.4	554.3	538.5	526.9
72.5°	442.7	452.1	461.7	446.4	436.3
75°	355.0	363.2	371.1	357.5	349.6
77.5°	271.3	278.3	283.7	275.0	267.4
80°	193.6	198.8	202.0	198.5	191.3
82.5°	124.4	128.1	129.9	129.6	124.9
85°	67.6	68.9	72.1	72.8	70.4
87.5°	26.2	27.9	28.6	30.9	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)