

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: P488566

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-20-120-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: P488566  
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-LD4-2HI-20-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

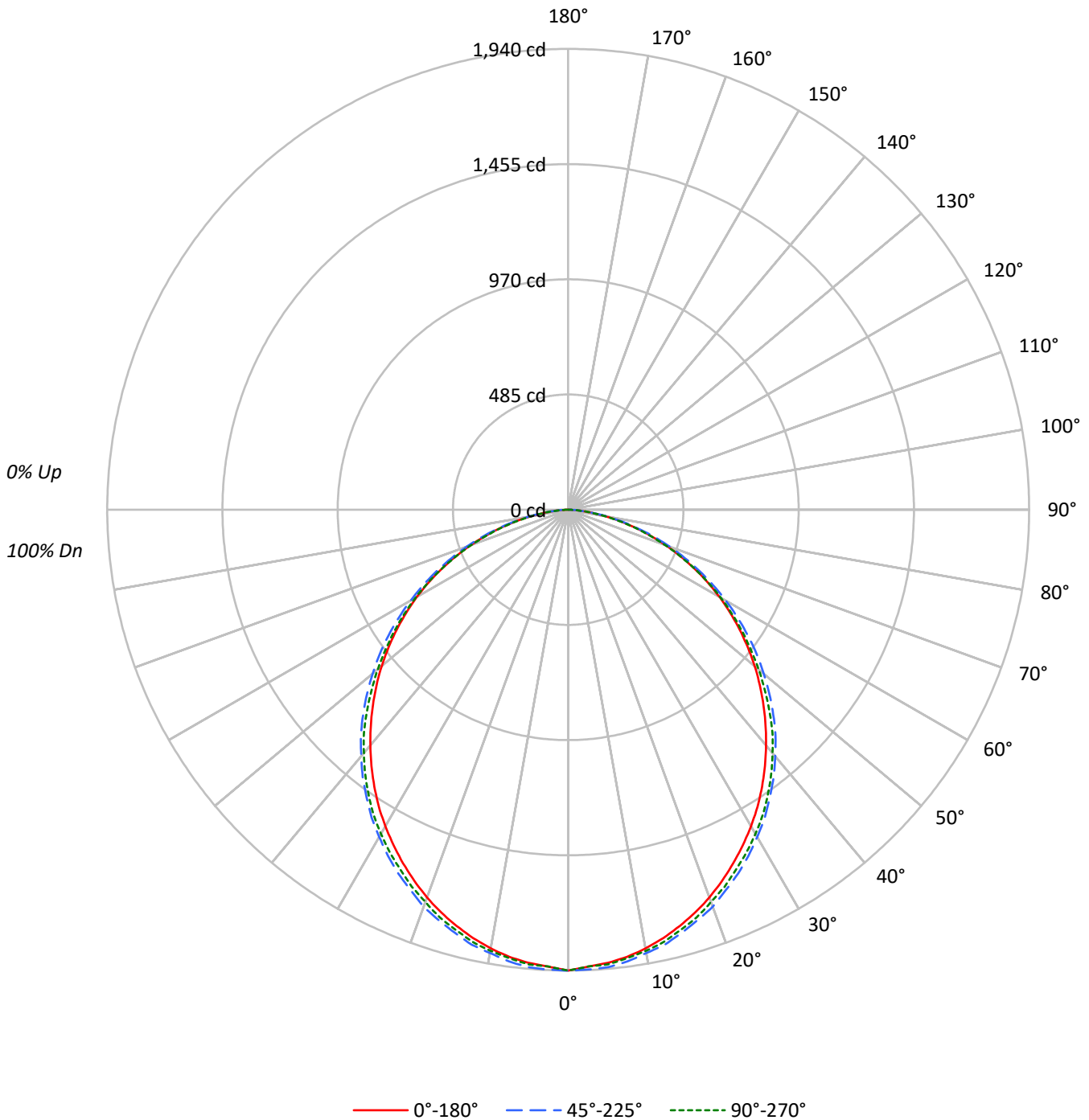
Lumens per Lamp: N/A  
Luminaire Lumens: 5101.2 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	5221	5221	5221
5°	5173	5222	5189
10°	5126	5178	5153
15°	5055	5136	5100
20°	4975	5093	5032
25°	4878	5020	4962
30°	4780	4942	4896
35°	4672	4857	4812
40°	4551	4760	4700
45°	4423	4646	4558
50°	4290	4497	4380
55°	4134	4328	4195
60°	3958	4123	3995
65°	3731	3873	3733
70°	3433	3570	3394
75°	3022	3159	2977
80°	2456	2563	2428
85°	1711	1822	1778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.7	3.6
10°-20°	517.8	10.2
20°-30°	772.3	15.1
30°-40°	915.2	17.9
40°-50°	926.1	18.2
50°-60°	808.8	15.9
60°-70°	591.0	11.6
70°-80°	314.5	6.2
80°-90°	72.7	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°	1472.9	28.9
0°-40°	2388.1	46.8
0°-60°	4123.0	80.8
0°-90°	5101.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1915	1919	1933	1938	1921	182
15°	1814	1826	1844	1855	1831	511
25°	1643	1663	1691	1697	1671	757
35°	1422	1444	1479	1489	1465	889
45°	1162	1183	1221	1222	1198	897
55°	881	899	922	909	894	788
65°	586	598	608	596	586	580
75°	291	297	304	293	286	309
85°	55	56	59	60	58	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1940.3	1940.3	1940.3	1940.3	1940.3
2.5°	1925.2	1931.4	1937.9	1940.7	1925.0
5°	1915.0	1918.7	1933.0	1937.5	1921.1
7.5°	1898.5	1903.9	1917.9	1919.9	1904.1
10°	1875.8	1885.5	1894.8	1904.9	1885.7
12.5°	1846.9	1860.1	1875.8	1877.6	1863.1
15°	1814.4	1826.5	1843.7	1854.8	1830.7
17.5°	1778.0	1789.7	1811.9	1814.0	1799.4
20°	1737.3	1751.9	1778.6	1783.2	1757.2
22.5°	1691.3	1710.9	1733.1	1737.6	1718.3
25°	1642.9	1663.2	1690.6	1696.9	1671.2
27.5°	1592.4	1611.8	1642.7	1647.2	1625.6
30°	1538.2	1556.4	1590.4	1597.9	1575.8
32.5°	1483.2	1501.4	1539.0	1545.3	1523.9
35°	1422.2	1444.4	1478.6	1488.9	1464.8
37.5°	1359.9	1381.5	1420.4	1429.7	1403.8
40°	1295.4	1316.9	1355.1	1362.7	1337.9
42.5°	1229.5	1251.0	1291.8	1293.0	1272.4
45°	1162.2	1182.8	1220.8	1221.8	1197.8
47.5°	1093.9	1114.7	1148.7	1144.8	1122.2
50°	1024.7	1044.6	1074.3	1066.6	1046.2
52.5°	953.2	972.4	1000.5	987.9	968.7
55°	881.2	899.0	922.4	909.1	894.1
57.5°	808.6	826.6	844.6	831.1	818.1
60°	735.5	751.2	766.0	752.2	742.3
62.5°	661.1	674.6	687.3	674.2	664.9
65°	585.9	597.8	608.3	596.2	586.3
67.5°	511.1	521.2	530.9	518.3	508.0
70°	436.3	445.0	453.8	440.9	431.4
72.5°	362.5	370.2	378.0	365.5	357.2
75°	290.7	297.4	303.8	292.7	286.3
77.5°	222.2	227.8	232.3	225.2	218.9
80°	158.5	162.7	165.4	162.5	156.7
82.5°	101.9	104.9	106.3	106.1	102.3
85°	55.4	56.4	59.0	59.6	57.6
87.5°	21.4	22.8	23.5	25.3	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)