

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: P489404

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-50-120-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: P489404  
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-LD4-1HI-50-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

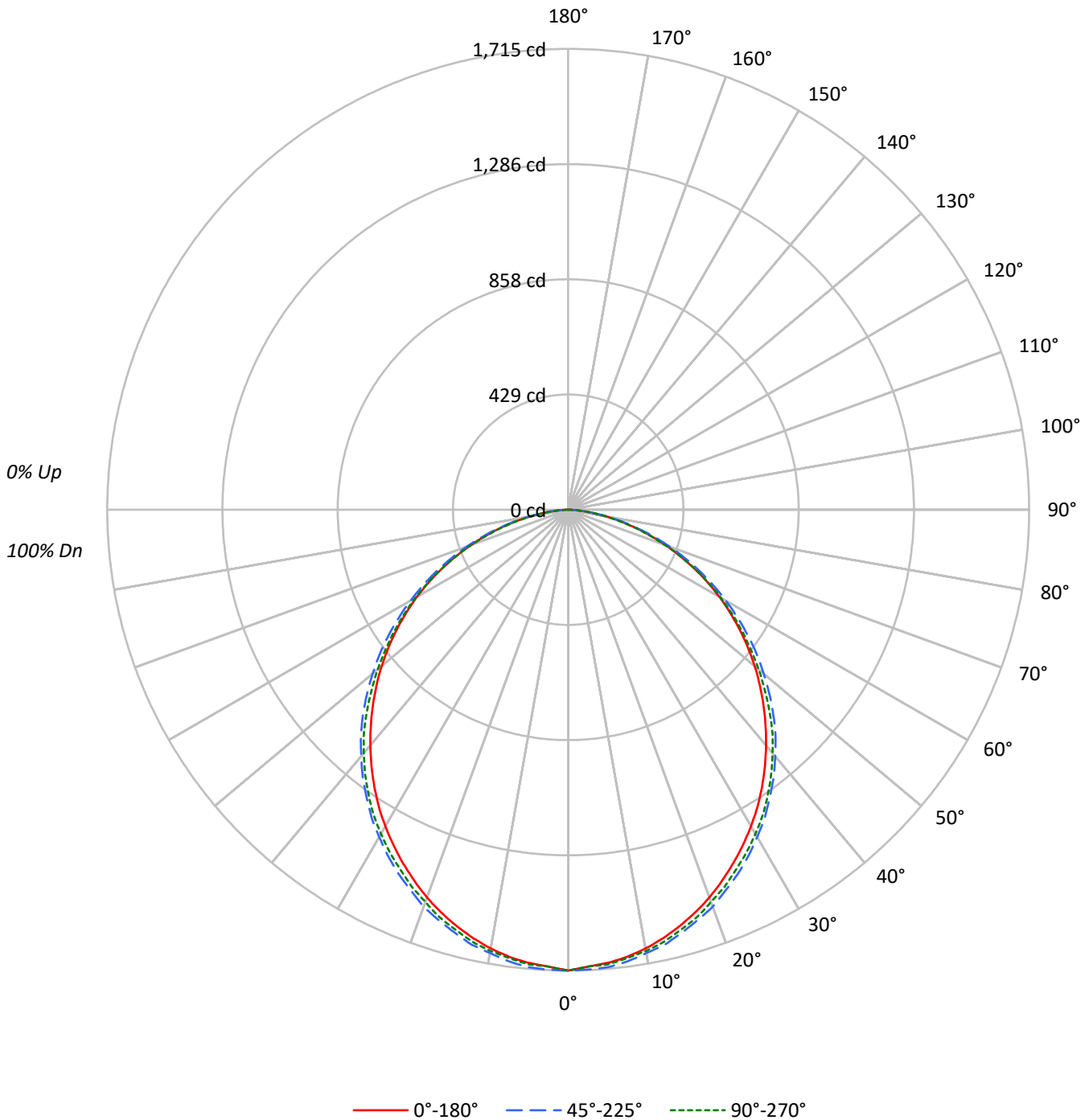
Lumens per Lamp: N/A  
Luminaire Lumens: 4509.7 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	2308	2308	2308
5°	2287	2308	2294
10°	2266	2289	2278
15°	2234	2270	2254
20°	2199	2251	2224
25°	2156	2219	2193
30°	2113	2184	2164
35°	2065	2147	2127
40°	2011	2104	2077
45°	1955	2054	2015
50°	1896	1988	1936
55°	1827	1913	1854
60°	1750	1822	1766
65°	1649	1712	1650
70°	1517	1578	1500
75°	1336	1396	1316
80°	1086	1133	1073
85°	756	806	786



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	3.6
10°-20°	457.8	10.2
20°-30°	682.8	15.1
30°-40°	809.1	17.9
40°-50°	818.7	18.2
50°-60°	715.0	15.9
60°-70°	522.5	11.6
70°-80°	278.0	6.2
80°-90°	64.3	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°	1302.1	28.9
0°-40°	2111.2	46.8
0°-60°	3645.0	80.8
0°-90°	4509.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4509.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1693	1696	1709	1713	1698	161
15°	1604	1615	1630	1640	1618	452
25°	1452	1470	1495	1500	1478	669
35°	1257	1277	1307	1316	1295	786
45°	1027	1046	1079	1080	1059	793
55°	779	795	816	804	790	696
65°	518	528	538	527	518	513
75°	257	263	269	259	253	273
85°	49	50	52	53	51	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1715.3	1715.3	1715.3	1715.3	1715.3
2.5°	1701.9	1707.5	1713.2	1715.7	1701.7
5°	1693.0	1696.2	1708.9	1712.8	1698.4
7.5°	1678.3	1683.2	1695.5	1697.3	1683.3
10°	1658.3	1666.9	1675.1	1684.1	1667.1
12.5°	1632.8	1644.4	1658.3	1659.9	1647.1
15°	1604.0	1614.7	1629.9	1639.7	1618.5
17.5°	1571.8	1582.2	1601.8	1603.6	1590.8
20°	1535.9	1548.8	1572.4	1576.5	1553.4
22.5°	1495.1	1512.5	1532.1	1536.1	1519.1
25°	1452.4	1470.3	1494.6	1500.2	1477.5
27.5°	1407.8	1424.9	1452.3	1456.2	1437.1
30°	1359.9	1375.9	1406.0	1412.6	1393.1
32.5°	1311.2	1327.3	1360.6	1366.1	1347.2
35°	1257.3	1276.9	1307.1	1316.3	1295.0
37.5°	1202.2	1221.4	1255.7	1263.9	1241.0
40°	1145.2	1164.2	1197.9	1204.7	1182.8
42.5°	1087.0	1105.9	1142.0	1143.1	1124.8
45°	1027.4	1045.7	1079.3	1080.2	1058.9
47.5°	967.0	985.4	1015.5	1012.1	992.1
50°	905.9	923.4	949.7	942.9	924.9
52.5°	842.7	859.6	884.5	873.4	856.4
55°	779.0	794.8	815.5	803.7	790.5
57.5°	714.9	730.8	746.7	734.7	723.3
60°	650.2	664.1	677.2	665.0	656.3
62.5°	584.4	596.4	607.6	596.0	587.8
65°	517.9	528.5	537.8	527.0	518.3
67.5°	451.8	460.7	469.3	458.2	449.1
70°	385.7	393.4	401.2	389.8	381.4
72.5°	320.4	327.2	334.2	323.1	315.8
75°	257.0	262.9	268.6	258.8	253.1
77.5°	196.4	201.4	205.3	199.1	193.6
80°	140.1	143.9	146.2	143.7	138.5
82.5°	90.1	92.8	94.0	93.8	90.4
85°	49.0	49.9	52.2	52.7	50.9
87.5°	18.9	20.2	20.7	22.3	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)