

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: P488900

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-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: P488900  
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-24-2-INS-A12125-LD4-2HI-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

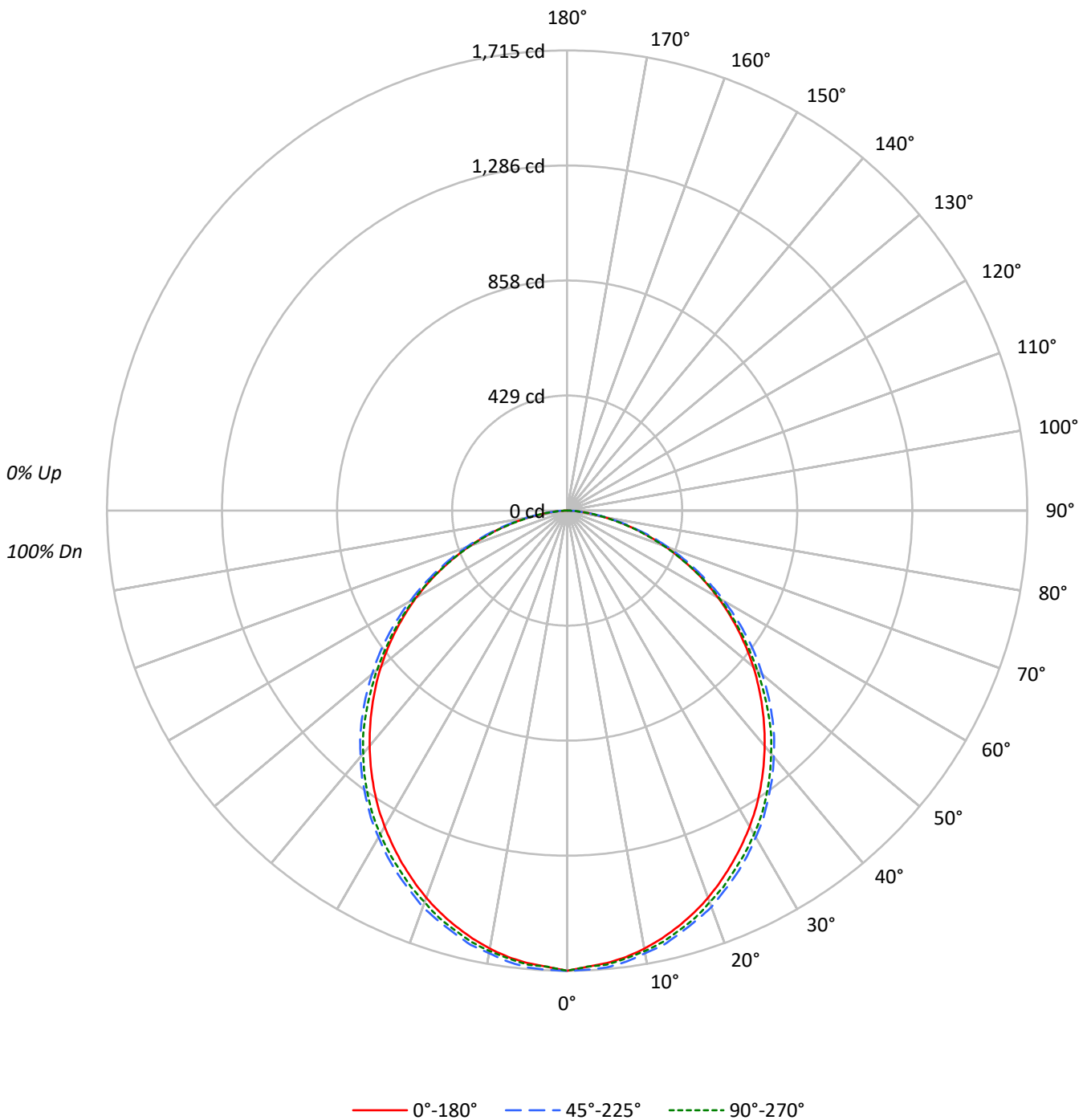
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4509.5 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: 2' 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°	4616	4616	4616
5°	4573	4616	4588
10°	4531	4577	4555
15°	4468	4540	4509
20°	4398	4503	4448
25°	4312	4437	4387
30°	4225	4369	4328
35°	4130	4294	4254
40°	4023	4208	4155
45°	3910	4107	4030
50°	3792	3976	3872
55°	3655	3826	3708
60°	3499	3644	3532
65°	3298	3424	3300
70°	3035	3157	3001
75°	2672	2793	2632
80°	2171	2266	2146
85°	1513	1612	1572



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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°	2111.1	46.8
0°-60°	3644.8	80.8
0°-90°	4509.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4509.5	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	1494	1500	1477	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	1707.4	1713.1	1715.6	1701.7
5°	1692.9	1696.1	1708.8	1712.8	1698.3
7.5°	1678.3	1683.1	1695.4	1697.2	1683.3
10°	1658.2	1666.8	1675.0	1684.0	1667.0
12.5°	1632.7	1644.3	1658.2	1659.9	1647.0
15°	1603.9	1614.6	1629.8	1639.7	1618.4
17.5°	1571.7	1582.1	1601.8	1603.6	1590.7
20°	1535.8	1548.7	1572.3	1576.4	1553.3
22.5°	1495.1	1512.4	1532.1	1536.0	1519.0
25°	1452.4	1470.2	1494.5	1500.1	1477.4
27.5°	1407.7	1424.9	1452.2	1456.1	1437.0
30°	1359.8	1375.9	1405.9	1412.5	1393.0
32.5°	1311.2	1327.3	1360.5	1366.1	1347.1
35°	1257.2	1276.9	1307.1	1316.2	1294.9
37.5°	1202.2	1221.3	1255.6	1263.8	1241.0
40°	1145.2	1164.1	1197.9	1204.7	1182.7
42.5°	1086.9	1105.9	1142.0	1143.0	1124.8
45°	1027.4	1045.6	1079.2	1080.1	1058.9
47.5°	967.0	985.4	1015.4	1012.0	992.0
50°	905.9	923.4	949.7	942.9	924.8
52.5°	842.6	859.6	884.4	873.4	856.4
55°	779.0	794.7	815.5	803.7	790.4
57.5°	714.8	730.7	746.6	734.7	723.2
60°	650.1	664.1	677.1	665.0	656.2
62.5°	584.4	596.4	607.6	596.0	587.8
65°	517.9	528.4	537.7	527.0	518.3
67.5°	451.8	460.7	469.3	458.2	449.1
70°	385.7	393.3	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	193.5
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)