

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: P488923

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-40-120-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: P488923  
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-LD4-2STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

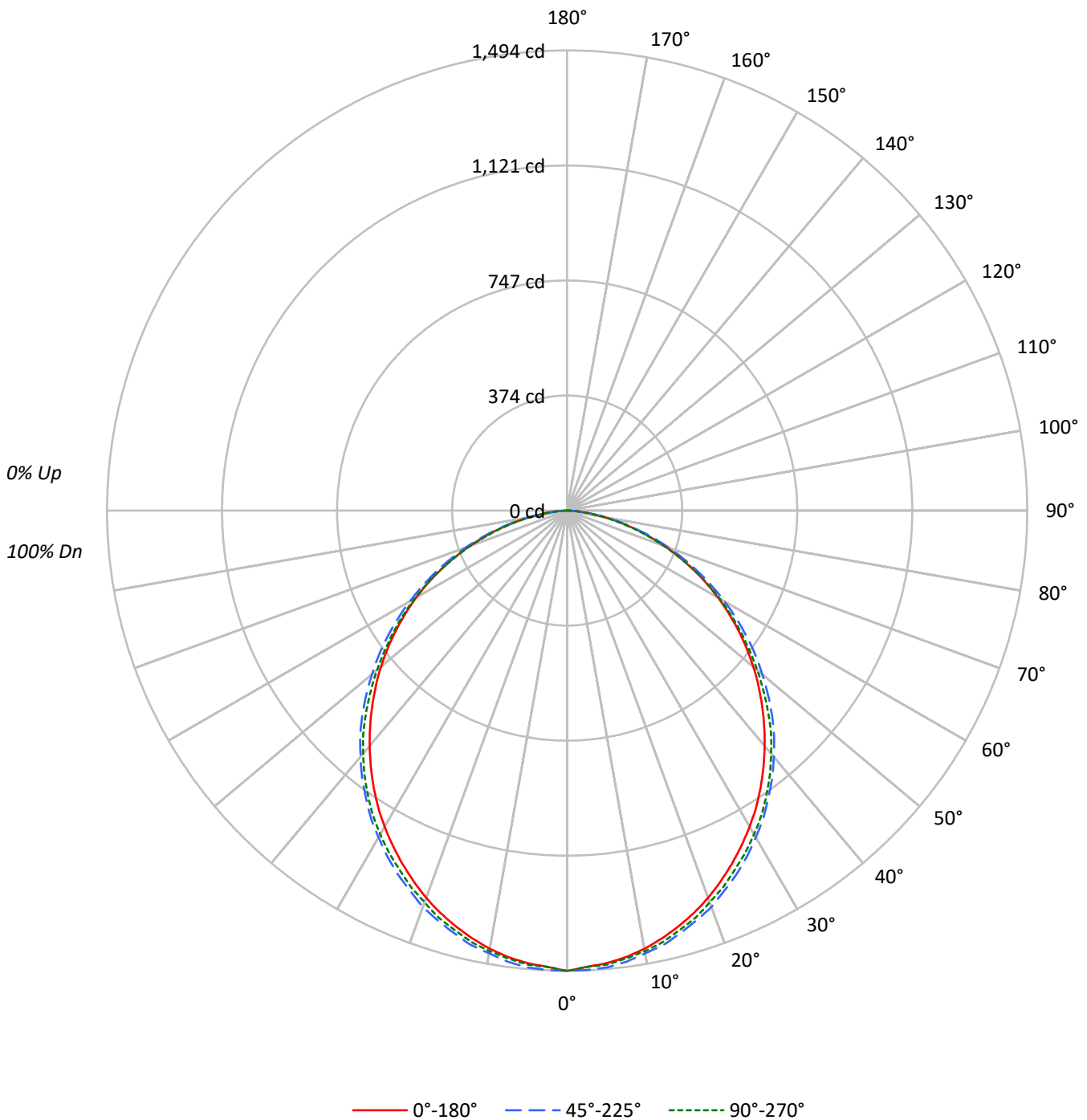
Lumens per Lamp: N/A  
Luminaire Lumens: 3928.8 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	4021	4021	4021
5°	3984	4022	3997
10°	3948	3988	3968
15°	3893	3956	3928
20°	3832	3923	3875
25°	3757	3866	3822
30°	3681	3806	3771
35°	3598	3741	3706
40°	3505	3666	3620
45°	3406	3578	3511
50°	3304	3464	3373
55°	3184	3333	3231
60°	3048	3175	3077
65°	2873	2983	2875
70°	2644	2750	2615
75°	2328	2433	2293
80°	1892	1974	1870
85°	1318	1405	1371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.7	3.6
10°-20°	398.8	10.2
20°-30°	594.8	15.1
30°-40°	704.9	17.9
40°-50°	713.2	18.2
50°-60°	622.9	15.9
60°-70°	455.2	11.6
70°-80°	242.2	6.2
80°-90°	56.0	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°	1134.4	28.9
0°-40°	1839.3	46.8
0°-60°	3175.4	80.8
0°-90°	3928.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3928.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1475	1478	1489	1492	1480	140
15°	1397	1407	1420	1428	1410	394
25°	1265	1281	1302	1307	1287	583
35°	1095	1112	1139	1147	1128	685
45°	895	911	940	941	922	691
55°	679	692	710	700	689	607
65°	451	460	468	459	452	446
75°	224	229	234	225	220	238
85°	43	43	46	46	44	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1494.4	1494.4	1494.4	1494.4	1494.4
2.5°	1482.7	1487.5	1492.5	1494.7	1482.5
5°	1474.9	1477.7	1488.8	1492.2	1479.6
7.5°	1462.1	1466.4	1477.1	1478.7	1466.5
10°	1444.7	1452.2	1459.3	1467.1	1452.3
12.5°	1422.4	1432.6	1444.7	1446.1	1434.9
15°	1397.4	1406.7	1420.0	1428.5	1410.0
17.5°	1369.4	1378.4	1395.5	1397.1	1385.9
20°	1338.1	1349.3	1369.8	1373.4	1353.3
22.5°	1302.6	1317.7	1334.8	1338.2	1323.4
25°	1265.3	1280.9	1302.1	1306.9	1287.1
27.5°	1226.4	1241.4	1265.2	1268.6	1252.0
30°	1184.7	1198.7	1224.9	1230.6	1213.7
32.5°	1142.3	1156.4	1185.3	1190.1	1173.6
35°	1095.3	1112.5	1138.8	1146.7	1128.2
37.5°	1047.4	1064.0	1093.9	1101.1	1081.2
40°	997.7	1014.2	1043.6	1049.6	1030.4
42.5°	946.9	963.5	994.9	995.8	980.0
45°	895.1	911.0	940.3	941.0	922.5
47.5°	842.5	858.5	884.7	881.7	864.3
50°	789.2	804.5	827.4	821.5	805.7
52.5°	734.1	748.9	770.5	760.9	746.1
55°	678.7	692.4	710.4	700.2	688.6
57.5°	622.8	636.6	650.5	640.1	630.1
60°	566.4	578.6	589.9	579.3	571.7
62.5°	509.1	519.6	529.4	519.2	512.1
65°	451.2	460.4	468.5	459.1	451.5
67.5°	393.6	401.4	408.9	399.2	391.3
70°	336.0	342.7	349.5	339.6	332.3
72.5°	279.2	285.1	291.2	281.5	275.1
75°	223.9	229.0	234.0	225.4	220.5
77.5°	171.1	175.5	178.9	173.4	168.6
80°	122.1	125.3	127.4	125.2	120.7
82.5°	78.5	80.8	81.9	81.7	78.8
85°	42.7	43.4	45.5	45.9	44.4
87.5°	16.5	17.6	18.1	19.5	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)