

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: P488919

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-30-120-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: P488919  
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-30-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

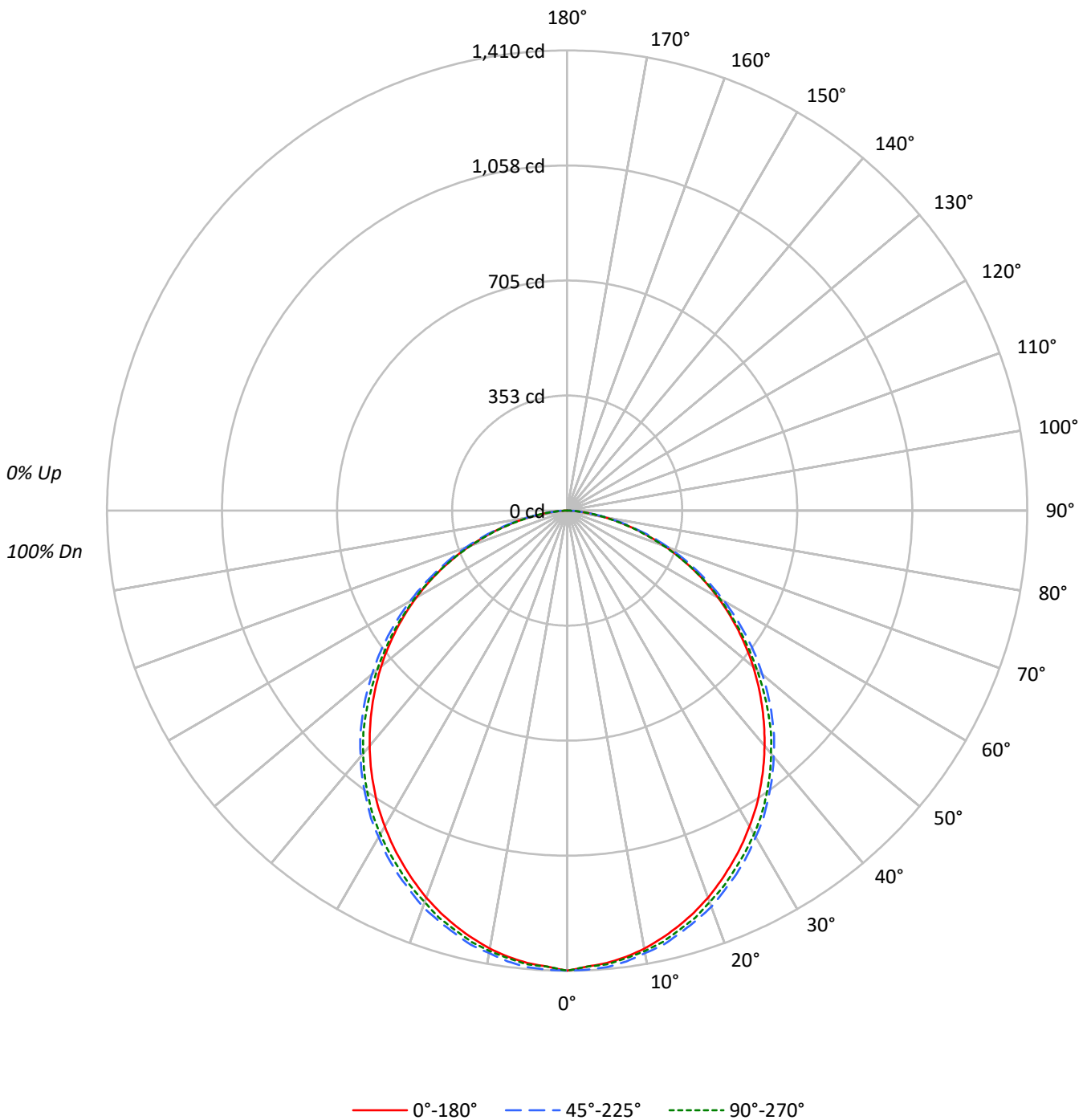
Lumens per Lamp: N/A  
Luminaire Lumens: 3706.2 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	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°	3793	3793	3793
5°	3758	3794	3770
10°	3724	3762	3744
15°	3672	3732	3706
20°	3615	3700	3656
25°	3544	3647	3605
30°	3473	3590	3558
35°	3394	3529	3496
40°	3306	3458	3414
45°	3213	3376	3312
50°	3117	3268	3182
55°	3004	3144	3048
60°	2876	2995	2902
65°	2710	2814	2712
70°	2494	2594	2466
75°	2196	2296	2163
80°	1785	1861	1764
85°	1241	1325	1294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.6
10°-20°	376.2	10.2
20°-30°	561.1	15.1
30°-40°	664.9	17.9
40°-50°	672.8	18.2
50°-60°	587.6	15.9
60°-70°	429.4	11.6
70°-80°	228.5	6.2
80°-90°	52.8	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°	1070.1	28.9
0°-40°	1735.1	46.8
0°-60°	2995.5	80.8
0°-90°	3706.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3706.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1391	1394	1404	1408	1396	132
15°	1318	1327	1340	1348	1330	372
25°	1194	1208	1228	1233	1214	550
35°	1033	1049	1074	1082	1064	646
45°	844	859	887	888	870	651
55°	640	653	670	660	650	572
65°	426	434	442	433	426	421
75°	211	216	221	213	208	225
85°	40	41	43	43	42	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1398.7	1403.2	1407.9	1410.0	1398.5
5°	1391.3	1394.0	1404.4	1407.7	1395.8
7.5°	1379.3	1383.3	1393.4	1394.9	1383.4
10°	1362.9	1369.9	1376.7	1384.0	1370.1
12.5°	1341.9	1351.4	1362.9	1364.2	1353.6
15°	1318.2	1327.0	1339.5	1347.6	1330.1
17.5°	1291.8	1300.3	1316.4	1317.9	1307.3
20°	1262.2	1272.8	1292.2	1295.6	1276.6
22.5°	1228.8	1243.0	1259.2	1262.4	1248.4
25°	1193.7	1208.3	1228.3	1232.9	1214.2
27.5°	1156.9	1171.0	1193.5	1196.7	1181.0
30°	1117.6	1130.8	1155.5	1160.9	1144.9
32.5°	1077.6	1090.8	1118.2	1122.7	1107.1
35°	1033.3	1049.4	1074.2	1081.7	1064.3
37.5°	988.0	1003.7	1031.9	1038.7	1019.9
40°	941.2	956.7	984.5	990.1	972.0
42.5°	893.3	908.9	938.5	939.4	924.4
45°	844.4	859.4	887.0	887.7	870.2
47.5°	794.7	809.9	834.5	831.8	815.3
50°	744.5	758.9	780.5	774.9	760.1
52.5°	692.5	706.5	726.9	717.8	703.8
55°	640.2	653.2	670.2	660.5	649.6
57.5°	587.5	600.6	613.6	603.8	594.4
60°	534.3	545.8	556.5	546.5	539.3
62.5°	480.3	490.1	499.4	489.8	483.1
65°	425.6	434.3	441.9	433.1	425.9
67.5°	371.3	378.6	385.7	376.6	369.1
70°	317.0	323.3	329.7	320.3	313.4
72.5°	263.3	268.9	274.7	265.6	259.5
75°	211.2	216.1	220.8	212.7	208.0
77.5°	161.4	165.5	168.8	163.6	159.1
80°	115.2	118.2	120.1	118.1	113.8
82.5°	74.0	76.2	77.3	77.1	74.3
85°	40.2	41.0	42.9	43.3	41.9
87.5°	15.6	16.6	17.0	18.4	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)