

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: P488925

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-50-120-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: P488925  
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-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

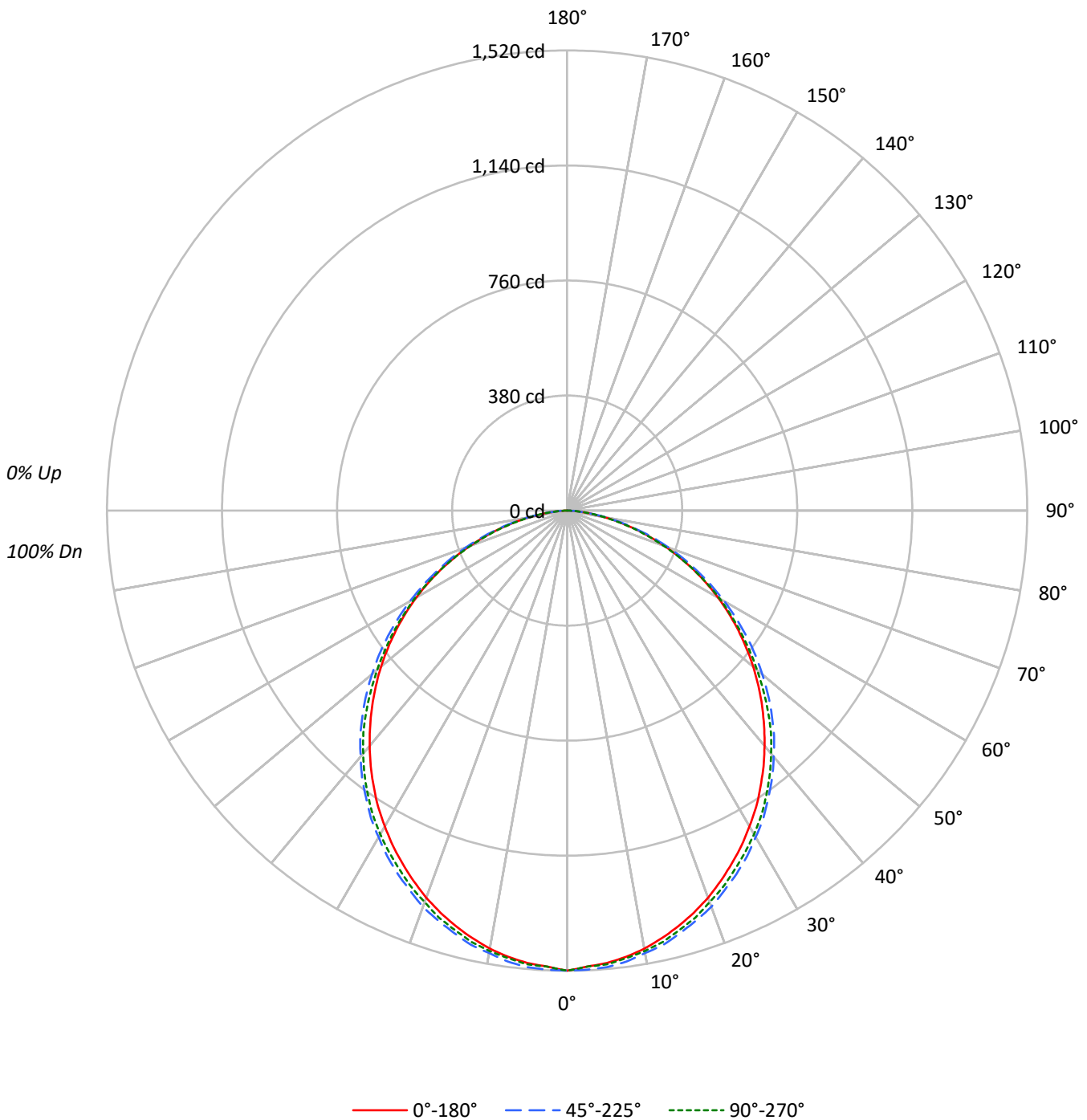
Lumens per Lamp: N/A  
Luminaire Lumens: 3995.5 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	4089	4089	4089
5°	4052	4090	4065
10°	4015	4055	4036
15°	3959	4023	3995
20°	3897	3989	3941
25°	3821	3932	3887
30°	3744	3871	3835
35°	3659	3804	3769
40°	3564	3729	3681
45°	3464	3639	3570
50°	3360	3522	3430
55°	3238	3390	3286
60°	3100	3229	3129
65°	2922	3033	2924
70°	2688	2797	2659
75°	2367	2475	2331
80°	1923	2007	1901
85°	1340	1426	1392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	3.6
10°-20°	405.6	10.2
20°-30°	604.9	15.1
30°-40°	716.9	17.9
40°-50°	725.3	18.2
50°-60°	633.5	15.9
60°-70°	462.9	11.6
70°-80°	246.3	6.2
80°-90°	56.9	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°	1153.7	28.9
0°-40°	1870.5	46.8
0°-60°	3229.3	80.8
0°-90°	3995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1500	1503	1514	1518	1505	142
15°	1421	1431	1444	1453	1434	401
25°	1287	1303	1324	1329	1309	593
35°	1114	1131	1158	1166	1147	697
45°	910	926	956	957	938	702
55°	690	704	722	712	700	617
65°	459	468	476	467	459	454
75°	228	233	238	229	224	242
85°	43	44	46	47	45	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1519.7	1519.7	1519.7	1519.7	1519.7
2.5°	1507.9	1512.8	1517.8	1520.1	1507.7
5°	1500.0	1502.8	1514.0	1517.5	1504.7
7.5°	1487.0	1491.2	1502.2	1503.8	1491.4
10°	1469.2	1476.8	1484.1	1492.0	1477.0
12.5°	1446.6	1456.9	1469.2	1470.7	1459.3
15°	1421.1	1430.6	1444.1	1452.8	1433.9
17.5°	1392.6	1401.8	1419.2	1420.8	1409.4
20°	1360.8	1372.2	1393.1	1396.7	1376.3
22.5°	1324.7	1340.0	1357.4	1360.9	1345.9
25°	1286.8	1302.7	1324.2	1329.1	1309.0
27.5°	1247.2	1262.4	1286.7	1290.2	1273.2
30°	1204.8	1219.1	1245.7	1251.5	1234.3
32.5°	1161.7	1176.0	1205.4	1210.3	1193.6
35°	1113.9	1131.3	1158.1	1166.2	1147.3
37.5°	1065.2	1082.1	1112.5	1119.8	1099.5
40°	1014.6	1031.4	1061.4	1067.4	1047.9
42.5°	963.0	979.8	1011.8	1012.7	996.6
45°	910.3	926.4	956.2	957.0	938.2
47.5°	856.8	873.1	899.7	896.7	878.9
50°	802.6	818.1	841.4	835.4	819.4
52.5°	746.6	761.6	783.6	773.8	758.8
55°	690.2	704.1	722.5	712.1	700.3
57.5°	633.4	647.5	661.5	650.9	640.8
60°	576.0	588.4	599.9	589.2	581.4
62.5°	517.8	528.4	538.4	528.1	520.8
65°	458.9	468.2	476.4	466.9	459.2
67.5°	400.3	408.2	415.8	406.0	397.9
70°	341.7	348.5	355.5	345.3	337.9
72.5°	283.9	289.9	296.1	286.3	279.8
75°	227.7	232.9	238.0	229.3	224.2
77.5°	174.0	178.4	181.9	176.4	171.5
80°	124.1	127.5	129.5	127.3	122.7
82.5°	79.8	82.2	83.3	83.1	80.1
85°	43.4	44.2	46.2	46.7	45.1
87.5°	16.8	17.9	18.4	19.8	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)