

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: P488885

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-35-120-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: P488885  
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-LD4-1STD-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

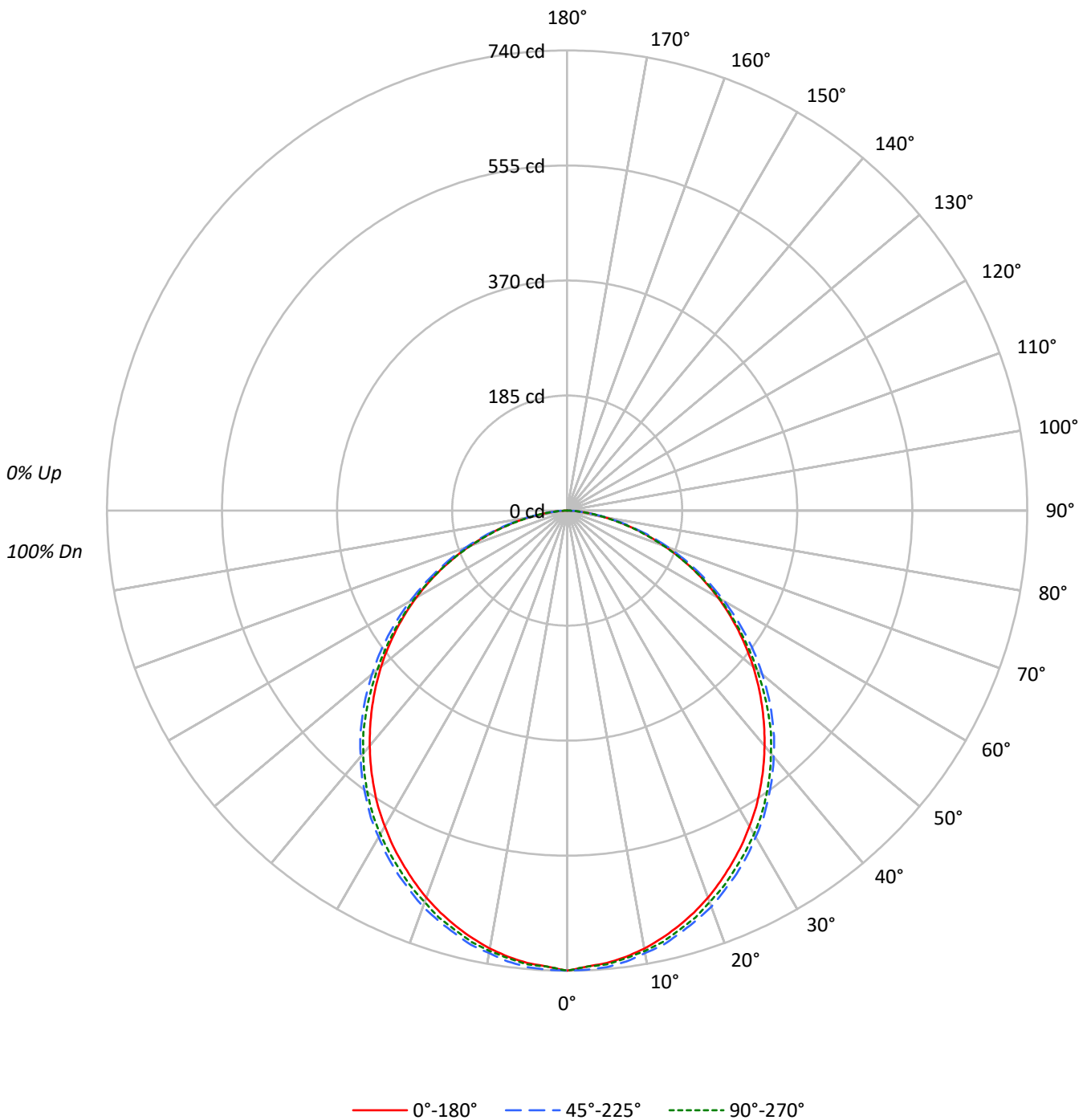
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1945.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 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): 16.6  
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°	1991	1991	1991
5°	1972	1991	1979
10°	1954	1974	1965
15°	1927	1958	1945
20°	1897	1942	1919
25°	1860	1914	1892
30°	1822	1884	1867
35°	1781	1852	1835
40°	1735	1815	1792
45°	1686	1772	1738
50°	1636	1715	1670
55°	1576	1650	1599
60°	1509	1572	1523
65°	1422	1477	1423
70°	1308	1361	1294
75°	1152	1205	1134
80°	936	978	925
85°	651	695	679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	3.6
10°-20°	197.4	10.2
20°-30°	294.5	15.1
30°-40°	349.0	17.9
40°-50°	353.1	18.2
50°-60°	308.4	15.9
60°-70°	225.3	11.6
70°-80°	119.9	6.2
80°-90°	27.7	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°	561.6	28.9
0°-40°	910.6	46.8
0°-60°	1572.0	80.8
0°-90°	1945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	730	732	737	739	732	69
15°	692	696	703	707	698	195
25°	626	634	645	647	637	289
35°	542	551	564	568	558	339
45°	443	451	466	466	457	342
55°	336	343	352	347	341	300
65°	223	228	232	227	224	221
75°	111	113	116	112	109	118
85°	21	22	22	23	22	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.8	739.8	739.8	739.8	739.8
2.5°	734.0	736.4	738.9	740.0	734.0
5°	730.2	731.6	737.0	738.7	732.5
7.5°	723.9	725.9	731.3	732.0	726.0
10°	715.2	718.9	722.5	726.3	719.0
12.5°	704.2	709.2	715.2	715.9	710.4
15°	691.8	696.4	703.0	707.2	698.0
17.5°	677.9	682.4	690.9	691.6	686.1
20°	662.4	668.0	678.1	679.9	670.0
22.5°	644.8	652.3	660.8	662.5	655.2
25°	626.4	634.1	644.6	647.0	637.2
27.5°	607.2	614.6	626.3	628.0	619.8
30°	586.5	593.4	606.4	609.2	600.8
32.5°	565.5	572.5	586.8	589.2	581.0
35°	542.3	550.7	563.8	567.7	558.5
37.5°	518.5	526.8	541.6	545.1	535.2
40°	493.9	502.1	516.7	519.6	510.1
42.5°	468.8	477.0	492.5	493.0	485.1
45°	443.1	451.0	465.5	465.9	456.7
47.5°	417.1	425.0	438.0	436.5	427.9
50°	390.7	398.3	409.6	406.7	398.9
52.5°	363.4	370.8	381.5	376.7	369.4
55°	336.0	342.8	351.7	346.6	340.9
57.5°	308.3	315.2	322.0	316.9	311.9
60°	280.4	286.4	292.1	286.8	283.0
62.5°	252.0	257.2	262.1	257.1	253.5
65°	223.4	227.9	231.9	227.3	223.5
67.5°	194.9	198.7	202.4	197.6	193.7
70°	166.3	169.7	173.0	168.1	164.5
72.5°	138.2	141.1	144.1	139.4	136.2
75°	110.8	113.4	115.9	111.6	109.1
77.5°	84.7	86.9	88.6	85.9	83.5
80°	60.4	62.0	63.1	62.0	59.7
82.5°	38.8	40.0	40.5	40.5	39.0
85°	21.1	21.5	22.5	22.7	22.0
87.5°	8.2	8.7	8.9	9.6	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)