

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: P488884

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-35-120-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: P488884  
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-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

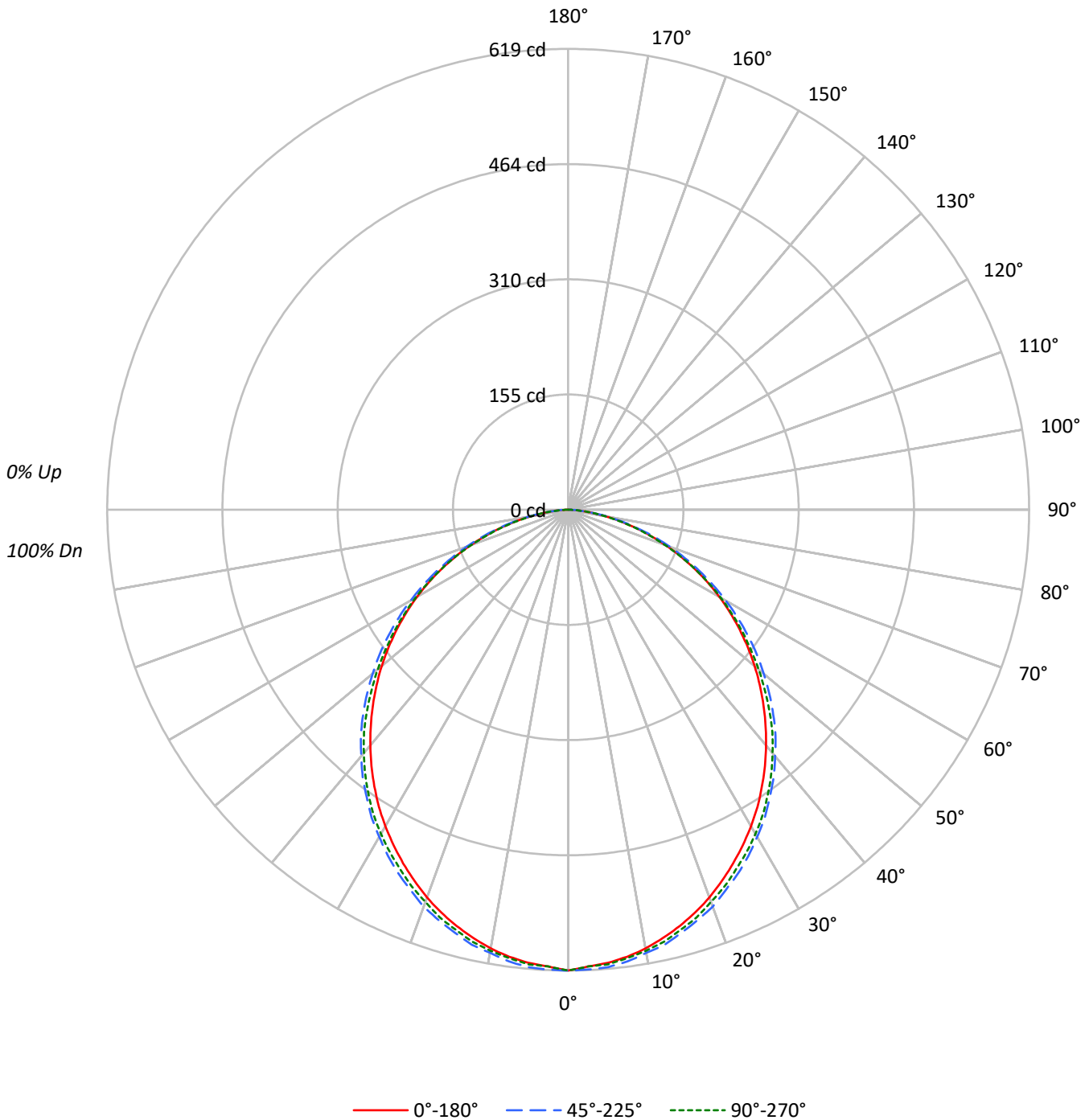
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1627.5 lumens  
Efficiency: N/A  
Efficacy: 98.0 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): 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°	1666	1666	1666
5°	1650	1666	1656
10°	1635	1652	1644
15°	1613	1639	1627
20°	1587	1625	1605
25°	1556	1602	1583
30°	1525	1577	1562
35°	1490	1550	1535
40°	1452	1519	1499
45°	1411	1482	1454
50°	1369	1435	1397
55°	1319	1381	1339
60°	1263	1315	1274
65°	1190	1236	1191
70°	1095	1139	1083
75°	964	1007	949
80°	784	818	775
85°	546	580	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	3.6
10°-20°	165.2	10.2
20°-30°	246.4	15.1
30°-40°	292.0	17.9
40°-50°	295.4	18.2
50°-60°	258.0	15.9
60°-70°	188.6	11.6
70°-80°	100.3	6.2
80°-90°	23.2	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°	469.9	28.9
0°-40°	761.9	46.8
0°-60°	1315.4	80.8
0°-90°	1627.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	611	612	617	618	613	58
15°	579	583	588	592	584	163
25°	524	531	539	541	533	241
35°	454	461	472	475	467	284
45°	371	377	390	390	382	286
55°	281	287	294	290	285	251
65°	187	191	194	190	187	185
75°	93	95	97	93	91	99
85°	18	18	19	19	18	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	619.0	619.0	619.0	619.0	619.0
2.5°	614.2	616.2	618.3	619.2	614.1
5°	611.0	612.1	616.7	618.1	612.9
7.5°	605.7	607.4	611.9	612.5	607.5
10°	598.5	601.6	604.5	607.8	601.6
12.5°	589.2	593.4	598.5	599.0	594.4
15°	578.9	582.7	588.2	591.8	584.1
17.5°	567.3	571.0	578.1	578.7	574.1
20°	554.3	558.9	567.4	568.9	560.6
22.5°	539.6	545.8	552.9	554.4	548.2
25°	524.2	530.6	539.4	541.4	533.2
27.5°	508.0	514.2	524.1	525.5	518.6
30°	490.8	496.6	507.4	509.8	502.8
32.5°	473.2	479.0	491.0	493.0	486.2
35°	453.7	460.8	471.7	475.0	467.3
37.5°	433.9	440.8	453.2	456.1	447.9
40°	413.3	420.1	432.3	434.8	426.8
42.5°	392.3	399.1	412.1	412.5	405.9
45°	370.8	377.4	389.5	389.8	382.1
47.5°	349.0	355.6	366.5	365.2	358.0
50°	326.9	333.3	342.7	340.3	333.8
52.5°	304.1	310.2	319.2	315.2	309.1
55°	281.1	286.8	294.3	290.0	285.3
57.5°	258.0	263.7	269.5	265.1	261.0
60°	234.6	239.7	244.4	240.0	236.8
62.5°	210.9	215.2	219.3	215.1	212.1
65°	186.9	190.7	194.1	190.2	187.0
67.5°	163.0	166.3	169.4	165.4	162.1
70°	139.2	142.0	144.8	140.7	137.6
72.5°	115.6	118.1	120.6	116.6	114.0
75°	92.7	94.9	96.9	93.4	91.3
77.5°	70.9	72.7	74.1	71.8	69.9
80°	50.6	51.9	52.8	51.9	50.0
82.5°	32.5	33.5	33.9	33.9	32.6
85°	17.7	18.0	18.8	19.0	18.4
87.5°	6.8	7.3	7.5	8.1	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)