

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: P488908

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-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: P488908  
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-LD4-2LO-35-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

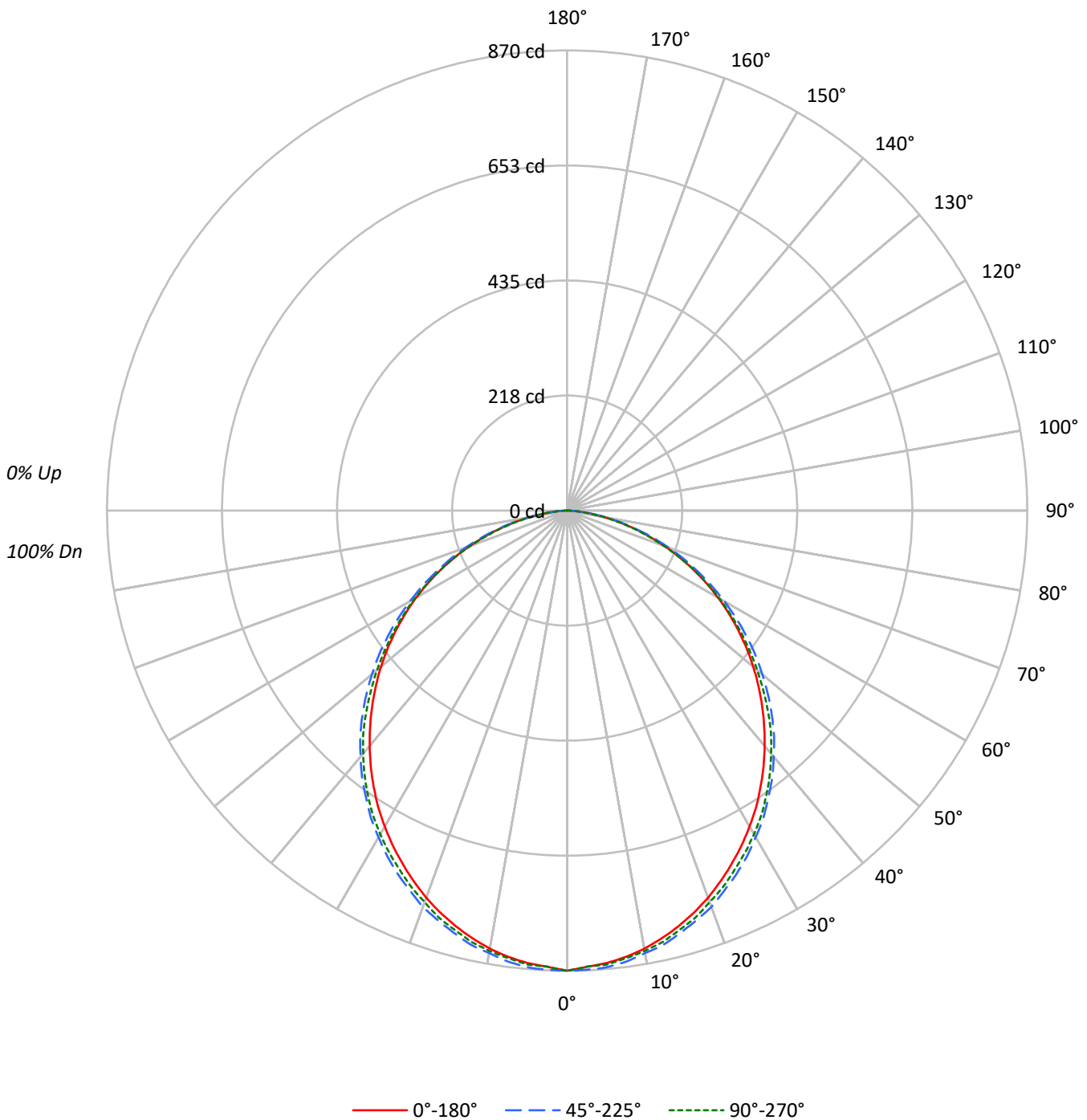
Lumens per Lamp: N/A  
Luminaire Lumens: 2287.2 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	2341	2341	2341
5°	2319	2341	2327
10°	2298	2322	2310
15°	2266	2303	2287
20°	2231	2284	2256
25°	2187	2251	2225
30°	2143	2216	2195
35°	2095	2178	2158
40°	2040	2134	2107
45°	1983	2083	2044
50°	1924	2017	1964
55°	1854	1940	1881
60°	1775	1848	1791
65°	1673	1736	1674
70°	1539	1601	1522
75°	1355	1416	1334
80°	1102	1148	1088
85°	766	818	797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	3.6
10°-20°	232.2	10.2
20°-30°	346.3	15.1
30°-40°	410.3	17.9
40°-50°	415.2	18.2
50°-60°	362.6	15.9
60°-70°	265.0	11.6
70°-80°	141.0	6.2
80°-90°	32.6	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°	660.4	28.9
0°-40°	1070.8	46.8
0°-60°	1848.6	80.8
0°-90°	2287.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	859	860	867	869	861	81
15°	814	819	827	832	821	229
25°	737	746	758	761	749	339
35°	638	648	663	668	657	399
45°	521	530	547	548	537	402
55°	395	403	414	408	401	353
65°	263	268	273	267	263	260
75°	130	133	136	131	128	139
85°	25	25	26	27	26	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	870.0	870.0	870.0	870.0	870.0
2.5°	863.2	866.0	868.9	870.2	863.1
5°	858.6	860.3	866.7	868.7	861.4
7.5°	851.2	853.7	859.9	860.8	853.7
10°	841.1	845.4	849.6	854.1	845.5
12.5°	828.1	834.0	841.1	841.9	835.3
15°	813.5	818.9	826.6	831.6	820.8
17.5°	797.2	802.4	812.4	813.3	806.8
20°	779.0	785.5	797.5	799.5	787.8
22.5°	758.3	767.1	777.1	779.1	770.4
25°	736.6	745.7	758.0	760.8	749.3
27.5°	714.0	722.7	736.5	738.5	728.8
30°	689.7	697.8	713.1	716.4	706.5
32.5°	665.0	673.2	690.0	692.9	683.2
35°	637.7	647.6	662.9	667.6	656.8
37.5°	609.7	619.4	636.8	641.0	629.4
40°	580.8	590.4	607.6	611.0	599.9
42.5°	551.3	560.9	579.2	579.7	570.5
45°	521.1	530.3	547.4	547.8	537.0
47.5°	490.5	499.8	515.0	513.3	503.1
50°	459.5	468.3	481.7	478.2	469.1
52.5°	427.4	436.0	448.6	443.0	434.4
55°	395.1	403.1	413.6	407.6	400.9
57.5°	362.6	370.6	378.7	372.6	366.8
60°	329.8	336.8	343.4	337.3	332.8
62.5°	296.4	302.5	308.2	302.3	298.1
65°	262.7	268.0	272.7	267.3	262.9
67.5°	229.1	233.7	238.0	232.4	227.8
70°	195.6	199.5	203.5	197.7	193.4
72.5°	162.5	166.0	169.5	163.9	160.2
75°	130.3	133.3	136.2	131.2	128.3
77.5°	99.6	102.2	104.1	101.0	98.2
80°	71.1	73.0	74.1	72.9	70.2
82.5°	45.7	47.0	47.7	47.6	45.9
85°	24.8	25.3	26.5	26.7	25.8
87.5°	9.6	10.2	10.5	11.3	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)