

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: P489479

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-20-120-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: P489479  
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-24-4-INS-A12125-LD4-3LO-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

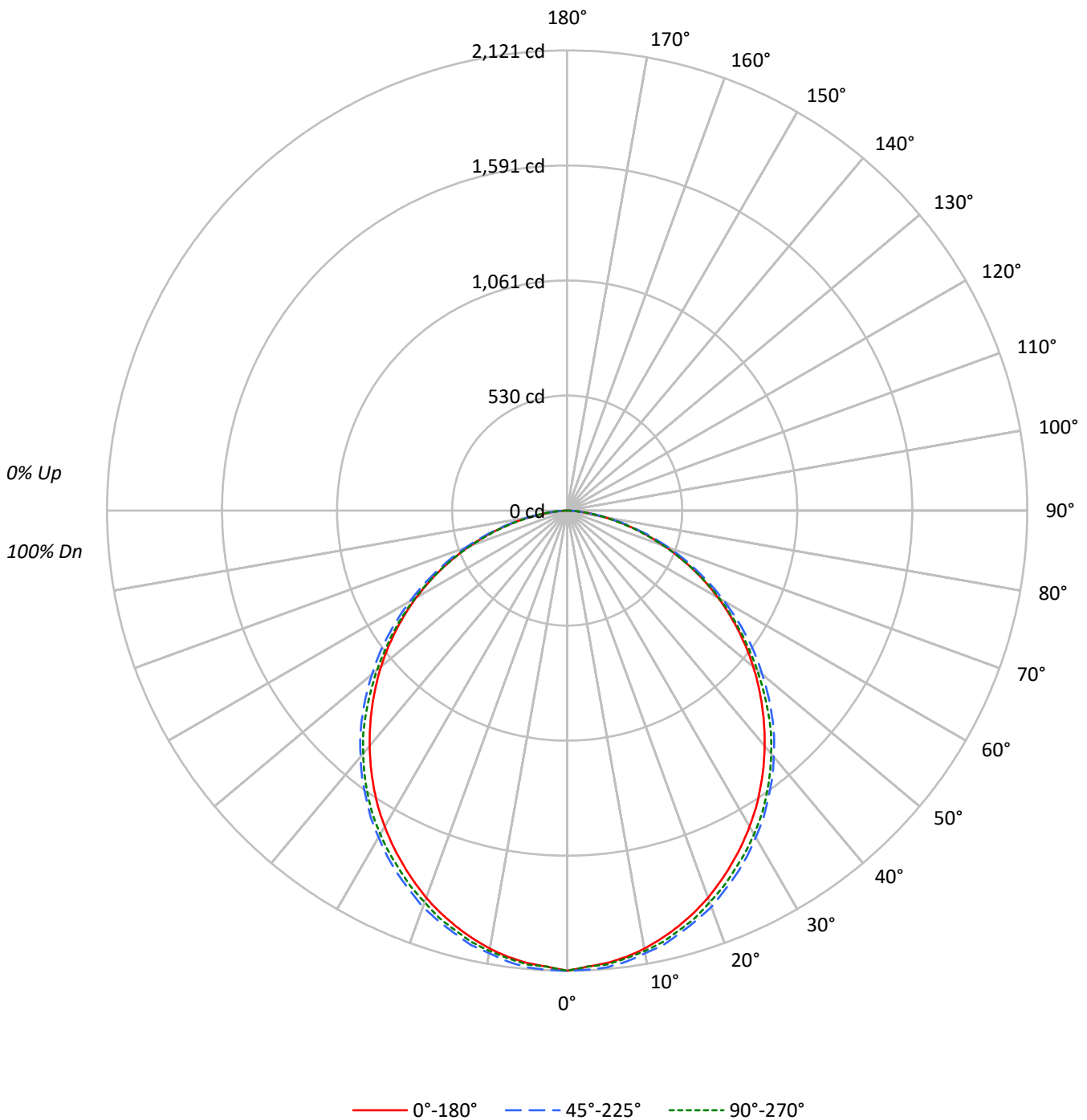
Lumens per Lamp: N/A  
Luminaire Lumens: 5576.5 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	2854	2854	2854
5°	2828	2854	2836
10°	2802	2830	2816
15°	2763	2807	2788
20°	2719	2784	2750
25°	2666	2744	2712
30°	2612	2701	2676
35°	2554	2655	2630
40°	2487	2602	2569
45°	2418	2539	2492
50°	2345	2458	2394
55°	2260	2365	2293
60°	2164	2253	2184
65°	2039	2117	2040
70°	1876	1952	1855
75°	1652	1727	1627
80°	1343	1401	1327
85°	936	996	973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	3.6
10°-20°	566.1	10.2
20°-30°	844.3	15.1
30°-40°	1000.5	17.9
40°-50°	1012.4	18.2
50°-60°	884.1	15.9
60°-70°	646.1	11.6
70°-80°	343.8	6.2
80°-90°	79.5	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°	1610.2	28.9
0°-40°	2610.7	46.8
0°-60°	4507.2	80.8
0°-90°	5576.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5576.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2094	2098	2113	2118	2100	199
15°	1983	1997	2016	2028	2001	559
25°	1796	1818	1848	1855	1827	827
35°	1555	1579	1616	1628	1601	972
45°	1270	1293	1335	1336	1309	980
55°	963	983	1008	994	978	861
65°	640	654	665	652	641	634
75°	318	325	332	320	313	338
85°	61	62	64	65	63	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2121.1	2121.1	2121.1	2121.1	2121.1
2.5°	2104.5	2111.4	2118.5	2121.5	2104.3
5°	2093.5	2097.5	2113.1	2118.0	2100.1
7.5°	2075.4	2081.3	2096.6	2098.8	2081.5
10°	2050.6	2061.2	2071.4	2082.4	2061.4
12.5°	2019.0	2033.4	2050.6	2052.6	2036.7
15°	1983.4	1996.7	2015.5	2027.6	2001.3
17.5°	1943.6	1956.5	1980.8	1983.0	1967.1
20°	1899.2	1915.1	1944.3	1949.4	1920.9
22.5°	1848.8	1870.3	1894.6	1899.4	1878.5
25°	1796.0	1818.1	1848.2	1855.0	1827.0
27.5°	1740.8	1762.0	1795.8	1800.7	1777.0
30°	1681.5	1701.4	1738.6	1746.7	1722.6
32.5°	1621.4	1641.3	1682.4	1689.3	1665.9
35°	1554.7	1579.0	1616.4	1627.6	1601.3
37.5°	1486.6	1510.3	1552.7	1562.9	1534.6
40°	1416.1	1439.6	1481.3	1489.7	1462.5
42.5°	1344.1	1367.5	1412.2	1413.5	1390.9
45°	1270.5	1293.0	1334.6	1335.7	1309.4
47.5°	1195.8	1218.6	1255.7	1251.5	1226.7
50°	1120.2	1141.9	1174.4	1166.0	1143.6
52.5°	1042.0	1063.0	1093.7	1080.0	1059.0
55°	963.3	982.8	1008.4	993.8	977.5
57.5°	884.0	903.6	923.3	908.5	894.4
60°	804.0	821.2	837.3	822.3	811.5
62.5°	722.7	737.5	751.4	737.0	726.8
65°	640.4	653.5	665.0	651.7	640.9
67.5°	558.7	569.7	580.3	566.6	555.4
70°	476.9	486.4	496.1	482.0	471.6
72.5°	396.2	404.6	413.3	399.6	390.5
75°	317.8	325.1	332.2	320.0	312.9
77.5°	242.9	249.1	253.9	246.2	239.3
80°	173.3	177.9	180.8	177.7	171.3
82.5°	111.4	114.7	116.2	116.0	111.8
85°	60.6	61.7	64.5	65.2	63.0
87.5°	23.4	25.0	25.6	27.6	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)