

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: P489397

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-27-120-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: P489397  
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-LD4-1HI-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

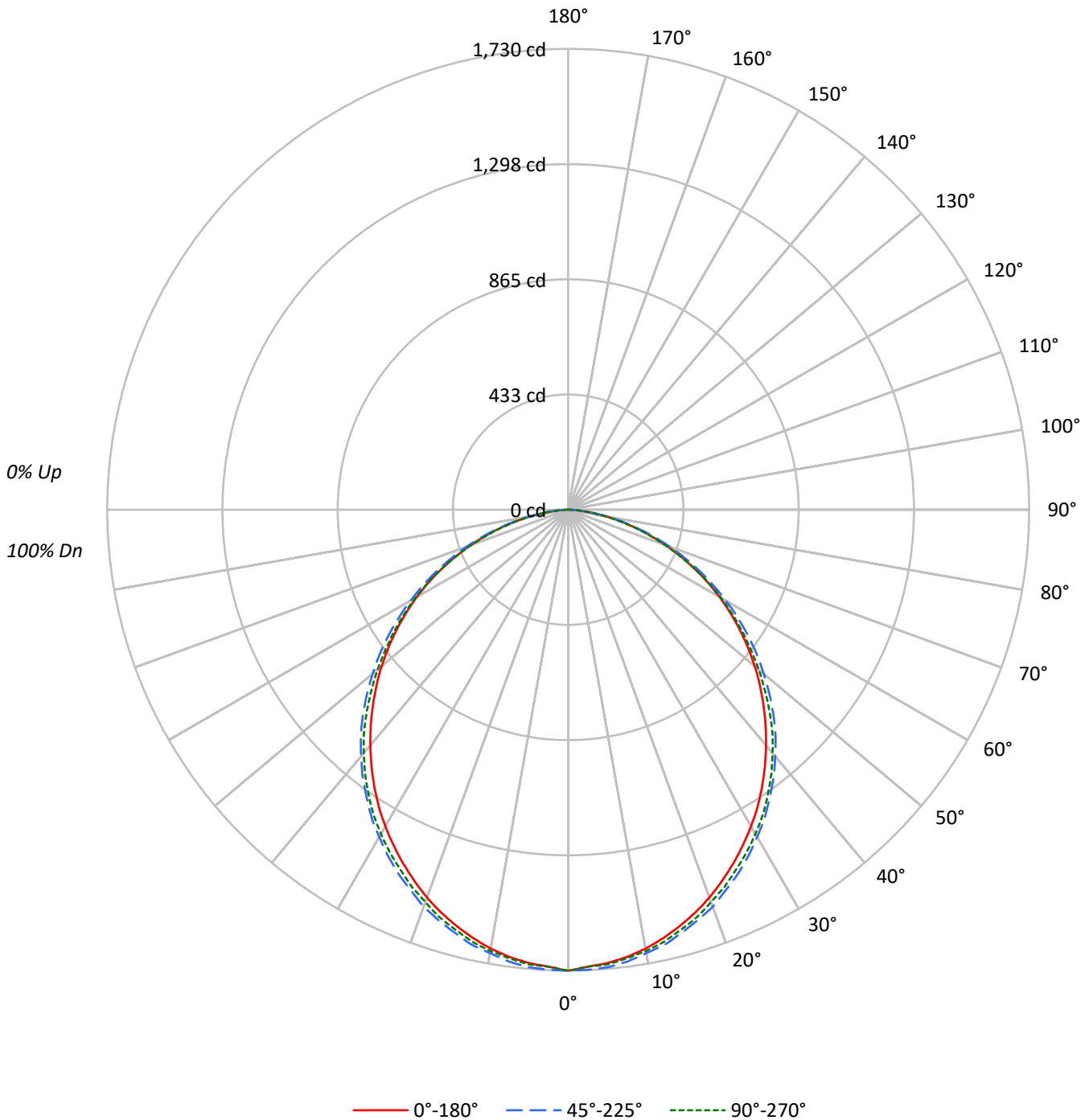
Lumens per Lamp: N/A  
Luminaire Lumens: 4549.5 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	2328	2328	2328
5°	2307	2328	2314
10°	2286	2309	2298
15°	2254	2290	2274
20°	2219	2271	2244
25°	2175	2238	2213
30°	2131	2204	2183
35°	2083	2166	2146
40°	2029	2123	2096
45°	1972	2072	2033
50°	1913	2006	1953
55°	1844	1930	1871
60°	1765	1838	1781
65°	1663	1727	1665
70°	1531	1592	1513
75°	1348	1409	1327
80°	1096	1143	1082
85°	763	812	794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	3.6
10°-20°	461.8	10.2
20°-30°	688.8	15.1
30°-40°	816.2	17.9
40°-50°	825.9	18.2
50°-60°	721.3	15.9
60°-70°	527.1	11.6
70°-80°	280.5	6.2
80°-90°	64.8	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°	1313.6	28.9
0°-40°	2129.9	46.8
0°-60°	3677.1	80.8
0°-90°	4549.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1708	1711	1724	1728	1713	162
15°	1618	1629	1644	1654	1633	456
25°	1465	1483	1508	1513	1490	675
35°	1268	1288	1319	1328	1306	793
45°	1036	1055	1089	1090	1068	800
55°	786	802	823	811	797	703
65°	522	533	542	532	523	517
75°	259	265	271	261	255	276
85°	49	50	53	53	51	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1716.9	1722.5	1728.3	1730.8	1716.8
5°	1707.9	1711.2	1724.0	1727.9	1713.3
7.5°	1693.1	1698.0	1710.5	1712.3	1698.2
10°	1673.0	1681.6	1689.9	1698.9	1681.8
12.5°	1647.2	1658.9	1673.0	1674.6	1661.6
15°	1618.1	1629.0	1644.3	1654.2	1632.7
17.5°	1585.7	1596.1	1616.0	1617.8	1604.8
20°	1549.5	1562.4	1586.2	1590.4	1567.1
22.5°	1508.3	1525.8	1545.7	1549.6	1532.5
25°	1465.3	1483.3	1507.8	1513.4	1490.5
27.5°	1420.2	1437.5	1465.1	1469.0	1449.7
30°	1371.9	1388.1	1418.4	1425.0	1405.4
32.5°	1322.8	1339.0	1372.6	1378.2	1359.1
35°	1268.4	1288.2	1318.7	1327.9	1306.4
37.5°	1212.8	1232.1	1266.8	1275.0	1252.0
40°	1155.3	1174.4	1208.5	1215.4	1193.2
42.5°	1096.6	1115.7	1152.1	1153.2	1134.8
45°	1036.5	1054.9	1088.8	1089.7	1068.2
47.5°	975.6	994.1	1024.4	1021.0	1000.8
50°	913.9	931.6	958.1	951.2	933.0
52.5°	850.1	867.2	892.3	881.1	864.0
55°	785.9	801.8	822.7	810.8	797.4
57.5°	721.2	737.2	753.3	741.2	729.7
60°	655.9	670.0	683.1	670.9	662.0
62.5°	589.6	601.6	613.0	601.3	593.0
65°	522.5	533.1	542.5	531.7	522.9
67.5°	455.8	464.8	473.5	462.3	453.1
70°	389.1	396.8	404.8	393.2	384.7
72.5°	323.3	330.1	337.2	326.0	318.6
75°	259.3	265.2	271.0	261.1	255.3
77.5°	198.1	203.2	207.2	200.8	195.3
80°	141.4	145.1	147.5	145.0	139.7
82.5°	90.9	93.6	94.8	94.7	91.2
85°	49.4	50.3	52.6	53.2	51.4
87.5°	19.1	20.4	20.9	22.5	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)