

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: P489478

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-20-120-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: P489478
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-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

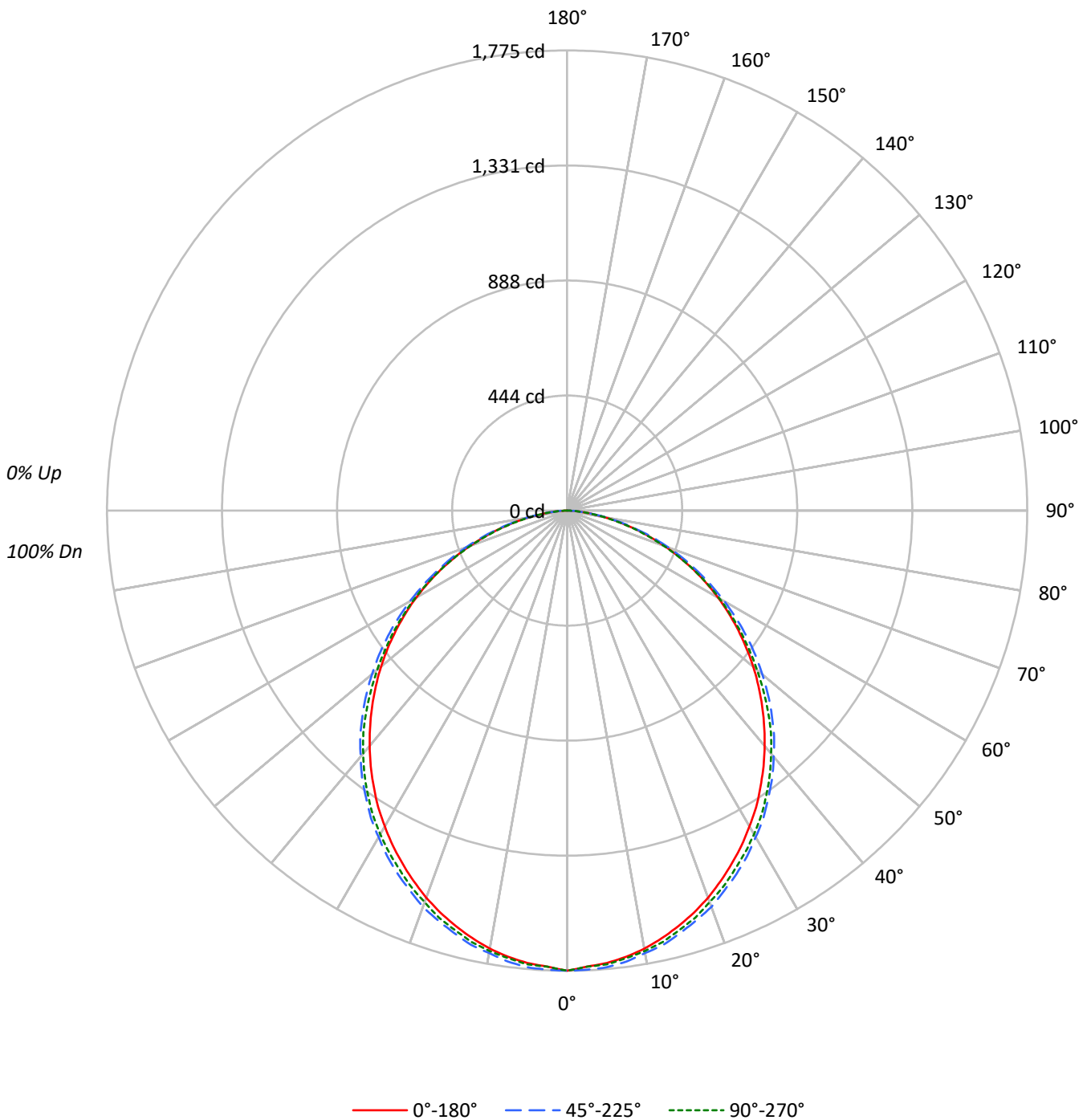
Lumens per Lamp: N/A
Luminaire Lumens: 4666.1 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2388	2388	2388
5°	2366	2388	2373
10°	2344	2368	2357
15°	2312	2349	2333
20°	2275	2329	2301
25°	2231	2296	2269
30°	2186	2260	2239
35°	2137	2222	2201
40°	2081	2177	2149
45°	2023	2125	2085
50°	1962	2057	2003
55°	1891	1979	1919
60°	1810	1885	1827
65°	1706	1771	1707
70°	1570	1633	1552
75°	1382	1445	1361
80°	1124	1172	1110
85°	783	834	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	3.6
10°-20°	473.7	10.2
20°-30°	706.5	15.1
30°-40°	837.2	17.9
40°-50°	847.1	18.2
50°-60°	739.8	15.9
60°-70°	540.6	11.6
70°-80°	287.7	6.2
80°-90°	66.5	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°	1347.3	28.9
0°-40°	2184.5	46.8
0°-60°	3771.3	80.8
0°-90°	4666.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4666.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1752	1755	1768	1772	1757	166
15°	1660	1671	1686	1697	1675	468
25°	1503	1521	1546	1552	1529	692
35°	1301	1321	1352	1362	1340	814
45°	1063	1082	1117	1118	1096	820
55°	806	822	844	832	818	721
65°	536	547	556	545	536	530
75°	266	272	278	268	262	283
85°	51	52	54	55	53	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.8	1774.8	1774.8	1774.8	1774.8
2.5°	1760.9	1766.7	1772.6	1775.2	1760.8
5°	1751.7	1755.0	1768.2	1772.2	1757.3
7.5°	1736.5	1741.5	1754.3	1756.1	1741.7
10°	1715.8	1724.7	1733.2	1742.5	1724.9
12.5°	1689.4	1701.4	1715.8	1717.5	1704.2
15°	1659.6	1670.7	1686.4	1696.6	1674.6
17.5°	1626.3	1637.1	1657.4	1659.2	1645.9
20°	1589.2	1602.5	1626.9	1631.1	1607.3
22.5°	1547.0	1564.9	1585.3	1589.3	1571.8
25°	1502.8	1521.3	1546.4	1552.2	1528.7
27.5°	1456.6	1474.3	1502.6	1506.7	1486.9
30°	1407.0	1423.7	1454.7	1461.6	1441.4
32.5°	1356.7	1373.4	1407.8	1413.5	1393.9
35°	1300.9	1321.2	1352.5	1361.9	1339.9
37.5°	1243.9	1263.7	1299.2	1307.7	1284.1
40°	1184.9	1204.5	1239.5	1246.5	1223.8
42.5°	1124.7	1144.3	1181.6	1182.7	1163.9
45°	1063.1	1081.9	1116.7	1117.6	1095.6
47.5°	1000.6	1019.6	1050.7	1047.2	1026.5
50°	937.3	955.5	982.6	975.6	956.9
52.5°	871.9	889.4	915.1	903.7	886.1
55°	806.0	822.3	843.8	831.6	817.9
57.5°	739.7	756.1	772.6	760.2	748.4
60°	672.7	687.1	700.6	688.1	679.0
62.5°	604.7	617.1	628.7	616.7	608.2
65°	535.9	546.8	556.4	545.3	536.3
67.5°	467.5	476.7	485.6	474.1	464.7
70°	399.0	407.0	415.1	403.3	394.6
72.5°	331.6	338.6	345.8	334.3	326.7
75°	265.9	272.0	277.9	267.8	261.8
77.5°	203.2	208.4	212.5	206.0	200.3
80°	145.0	148.9	151.3	148.7	143.3
82.5°	93.2	96.0	97.3	97.1	93.6
85°	50.7	51.6	54.0	54.6	52.7
87.5°	19.6	20.9	21.5	23.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)