

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: P489448

Luminaire Tested: **CLM-24-4-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: P489448
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-LD4-2LO-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

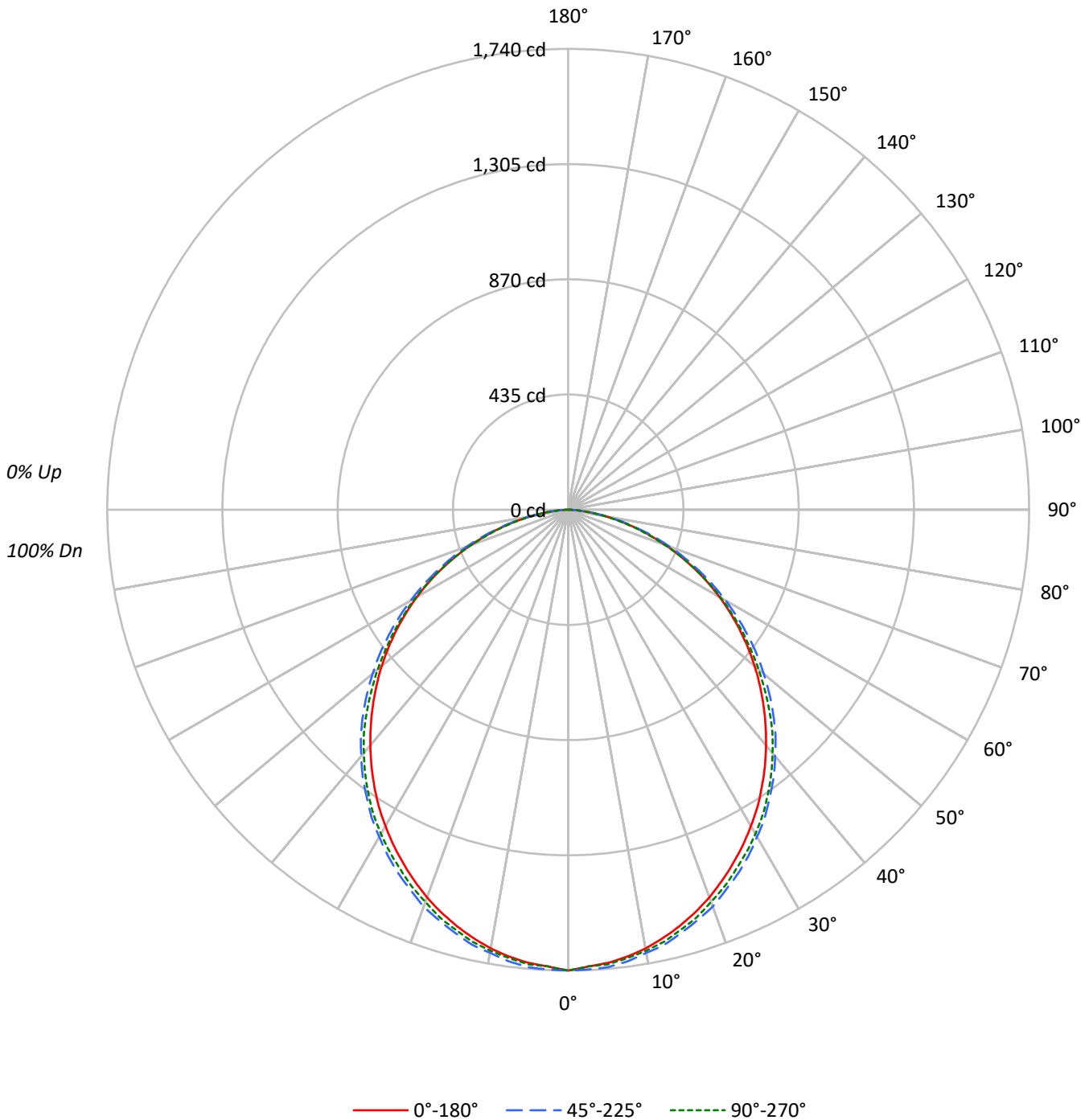
Lumens per Lamp: N/A
Luminaire Lumens: 4574.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	2320	2341	2327
10°	2298	2322	2310
15°	2266	2303	2287
20°	2231	2284	2256
25°	2187	2251	2225
30°	2143	2216	2196
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	1737	1674
70°	1539	1601	1522
75°	1355	1417	1334
80°	1101	1149	1089
85°	767	817	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.6
10°-20°	464.4	10.2
20°-30°	692.6	15.1
30°-40°	820.8	17.9
40°-50°	830.5	18.2
50°-60°	725.3	15.9
60°-70°	530.0	11.6
70°-80°	282.0	6.2
80°-90°	65.2	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°	1320.9	28.9
0°-40°	2141.6	46.8
0°-60°	3697.4	80.8
0°-90°	4574.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1717	1721	1734	1738	1723	163
15°	1627	1638	1653	1663	1642	459
25°	1473	1492	1516	1522	1499	679
35°	1275	1295	1326	1335	1314	798
45°	1042	1061	1095	1096	1074	804
55°	790	806	827	815	802	706
65°	525	536	546	535	526	520
75°	261	267	272	262	257	277
85°	50	51	53	54	52	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.0	1740.0	1740.0	1740.0	1740.0
2.5°	1726.4	1732.0	1737.8	1740.4	1726.2
5°	1717.4	1720.6	1733.5	1737.5	1722.8
7.5°	1702.5	1707.4	1719.9	1721.7	1707.6
10°	1682.2	1690.9	1699.2	1708.3	1691.1
12.5°	1656.3	1668.0	1682.2	1683.8	1670.8
15°	1627.1	1637.9	1653.4	1663.3	1641.8
17.5°	1594.4	1605.0	1624.9	1626.7	1613.7
20°	1558.0	1571.1	1595.0	1599.2	1575.8
22.5°	1516.7	1534.3	1554.2	1558.2	1541.0
25°	1473.3	1491.5	1516.1	1521.7	1498.7
27.5°	1428.0	1445.4	1473.2	1477.1	1457.7
30°	1379.4	1395.7	1426.2	1432.9	1413.2
32.5°	1330.1	1346.4	1380.2	1385.8	1366.6
35°	1275.4	1295.3	1326.0	1335.2	1313.6
37.5°	1219.5	1238.9	1273.7	1282.1	1258.9
40°	1161.7	1180.9	1215.2	1222.1	1199.8
42.5°	1102.6	1121.8	1158.4	1159.5	1141.0
45°	1042.2	1060.7	1094.8	1095.7	1074.1
47.5°	981.0	999.6	1030.1	1026.6	1006.3
50°	919.0	936.7	963.4	956.5	938.2
52.5°	854.8	872.0	897.2	886.0	868.7
55°	790.2	806.2	827.2	815.3	801.8
57.5°	725.2	741.3	757.4	745.3	733.7
60°	659.5	673.7	686.9	674.6	665.7
62.5°	592.8	605.0	616.4	604.6	596.3
65°	525.4	536.1	545.5	534.6	525.7
67.5°	458.3	467.4	476.1	464.8	455.6
70°	391.2	399.0	407.0	395.4	386.9
72.5°	325.1	331.9	339.0	327.8	320.3
75°	260.7	266.7	272.5	262.5	256.7
77.5°	199.2	204.3	208.3	202.0	196.3
80°	142.1	145.9	148.3	145.8	140.5
82.5°	91.4	94.1	95.4	95.2	91.7
85°	49.7	50.6	52.9	53.5	51.7
87.5°	19.2	20.5	21.0	22.7	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)