

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: P489396

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-27-120-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: P489396
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-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

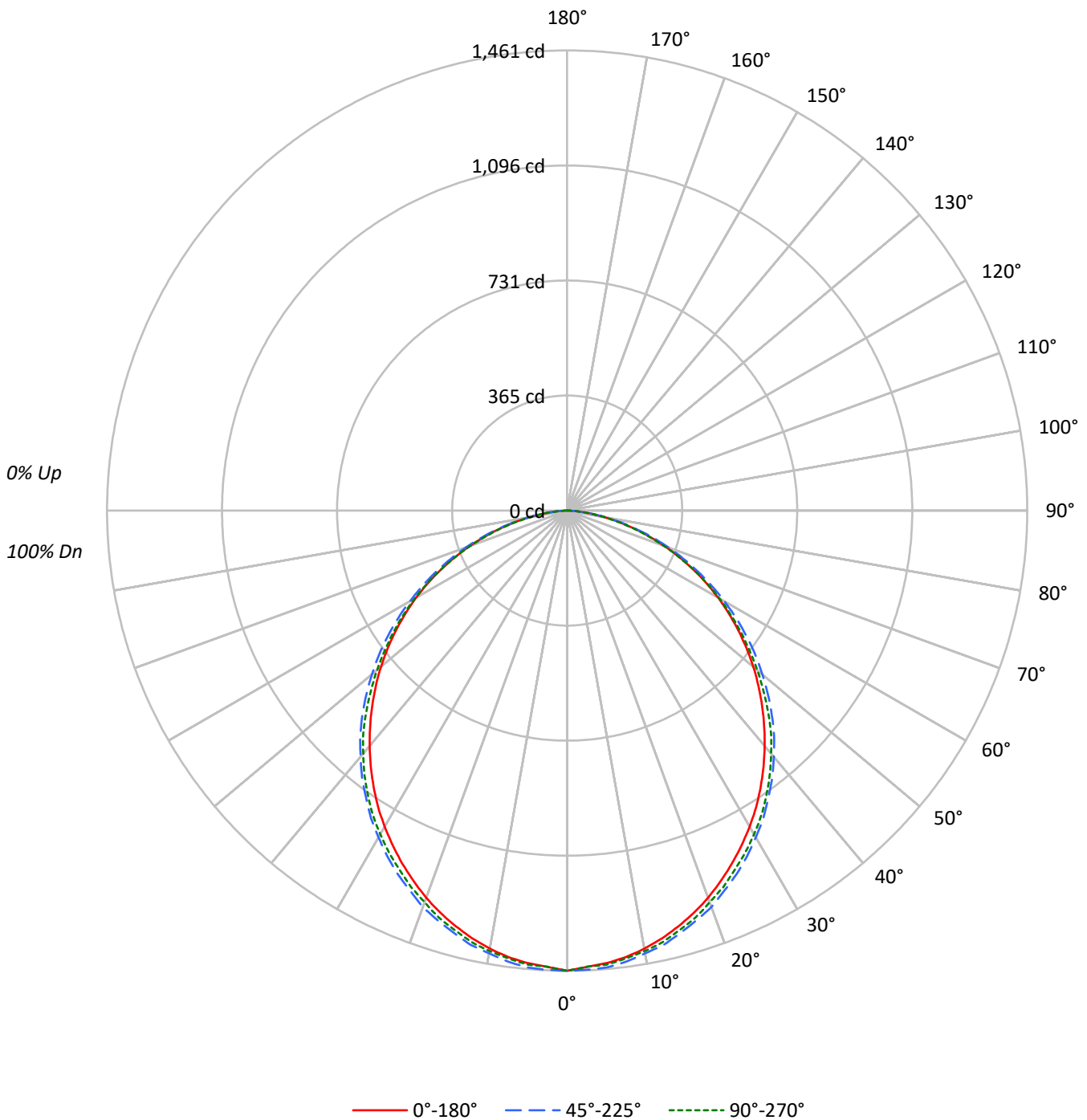
Lumens per Lamp: N/A
Luminaire Lumens: 3841.6 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1966	1966	1966
5°	1948	1966	1954
10°	1930	1950	1940
15°	1903	1934	1920
20°	1873	1918	1895
25°	1837	1890	1868
30°	1800	1861	1844
35°	1759	1829	1812
40°	1714	1792	1770
45°	1665	1749	1716
50°	1615	1693	1649
55°	1557	1630	1580
60°	1491	1552	1504
65°	1405	1458	1406
70°	1292	1345	1278
75°	1138	1189	1121
80°	925	965	914
85°	644	687	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.6
10°-20°	390.0	10.2
20°-30°	581.6	15.1
30°-40°	689.2	17.9
40°-50°	697.4	18.2
50°-60°	609.1	15.9
60°-70°	445.1	11.6
70°-80°	236.8	6.2
80°-90°	54.7	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°	1109.2	28.9
0°-40°	1798.5	46.8
0°-60°	3104.9	80.8
0°-90°	3841.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1442	1445	1456	1459	1447	137
15°	1366	1376	1388	1397	1379	385
25°	1237	1252	1273	1278	1259	570
35°	1071	1088	1114	1121	1103	670
45°	875	891	919	920	902	675
55°	664	677	695	685	673	593
65°	441	450	458	449	442	437
75°	219	224	229	220	216	233
85°	42	42	44	45	43	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.2	1461.2	1461.2	1461.2	1461.2
2.5°	1449.8	1454.5	1459.4	1461.5	1449.6
5°	1442.2	1444.9	1455.7	1459.1	1446.7
7.5°	1429.7	1433.8	1444.3	1445.8	1434.0
10°	1412.6	1420.0	1427.0	1434.6	1420.1
12.5°	1390.9	1400.8	1412.6	1414.0	1403.1
15°	1366.4	1375.5	1388.4	1396.8	1378.7
17.5°	1339.0	1347.8	1364.5	1366.1	1355.1
20°	1308.4	1319.3	1339.4	1342.9	1323.3
22.5°	1273.6	1288.4	1305.2	1308.5	1294.0
25°	1237.3	1252.5	1273.2	1277.9	1258.6
27.5°	1199.2	1213.8	1237.1	1240.5	1224.2
30°	1158.4	1172.1	1197.7	1203.3	1186.7
32.5°	1117.0	1130.7	1159.0	1163.7	1147.6
35°	1071.0	1087.8	1113.5	1121.3	1103.1
37.5°	1024.1	1040.4	1069.6	1076.6	1057.2
40°	975.6	991.7	1020.5	1026.3	1007.5
42.5°	925.9	942.1	972.8	973.7	958.2
45°	875.2	890.8	919.4	920.1	902.0
47.5°	823.8	839.5	865.0	862.1	845.1
50°	771.7	786.6	809.0	803.2	787.8
52.5°	717.8	732.3	753.4	744.0	729.5
55°	663.6	677.0	694.7	684.6	673.4
57.5°	609.0	622.5	636.1	625.9	616.1
60°	553.9	565.7	576.8	566.5	559.0
62.5°	497.8	508.0	517.6	507.7	500.7
65°	441.2	450.2	458.1	449.0	441.5
67.5°	384.9	392.5	399.8	390.3	382.6
70°	328.5	335.1	341.8	332.0	324.9
72.5°	273.0	278.8	284.7	275.3	269.0
75°	218.9	223.9	228.8	220.4	215.6
77.5°	167.3	171.6	174.9	169.6	164.9
80°	119.4	122.6	124.5	122.4	118.0
82.5°	76.7	79.0	80.1	79.9	77.0
85°	41.7	42.5	44.5	44.9	43.4
87.5°	16.1	17.2	17.7	19.0	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)