

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: P489427

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-40-120-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: P489427
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-LD4-1STD-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

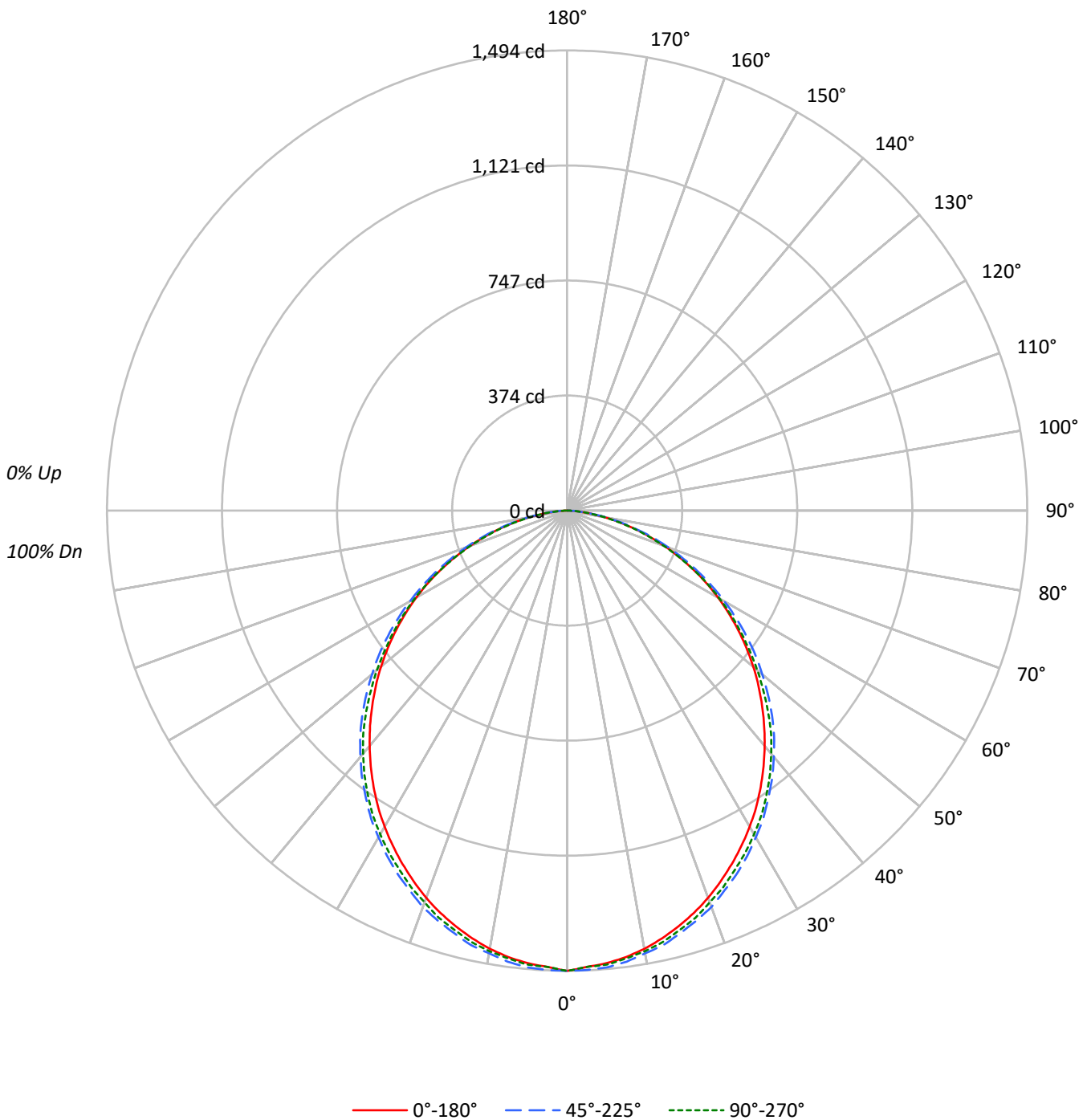
Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2011	2011	2011
5°	1992	2011	1999
10°	1974	1994	1984
15°	1947	1978	1964
20°	1916	1961	1938
25°	1879	1933	1911
30°	1841	1903	1886
35°	1799	1871	1853
40°	1753	1833	1810
45°	1703	1789	1755
50°	1652	1732	1687
55°	1592	1667	1616
60°	1524	1588	1538
65°	1436	1492	1437
70°	1322	1375	1307
75°	1164	1216	1146
80°	946	987	935
85°	659	702	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.6
10°-20°	398.8	10.2
20°-30°	594.9	15.1
30°-40°	704.9	17.9
40°-50°	713.3	18.2
50°-60°	622.9	15.9
60°-70°	455.2	11.6
70°-80°	242.2	6.2
80°-90°	56.0	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°	1134.5	28.9
0°-40°	1839.4	46.8
0°-60°	3175.6	80.8
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1475	1478	1489	1492	1480	140
15°	1397	1407	1420	1429	1410	394
25°	1265	1281	1302	1307	1287	583
35°	1095	1112	1139	1147	1128	685
45°	895	911	940	941	922	691
55°	679	692	710	700	689	607
65°	451	460	468	459	452	447
75°	224	229	234	226	220	238
85°	43	43	46	46	44	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1482.8	1487.6	1492.6	1494.8	1482.6
5°	1475.0	1477.8	1488.8	1492.3	1479.7
7.5°	1462.2	1466.4	1477.2	1478.7	1466.6
10°	1444.8	1452.3	1459.4	1467.2	1452.4
12.5°	1422.5	1432.6	1444.8	1446.2	1435.0
15°	1397.4	1406.8	1420.0	1428.6	1410.1
17.5°	1369.4	1378.5	1395.6	1397.1	1385.9
20°	1338.1	1349.3	1369.9	1373.5	1353.4
22.5°	1302.6	1317.7	1334.9	1338.3	1323.5
25°	1265.4	1281.0	1302.2	1307.0	1287.2
27.5°	1226.5	1241.4	1265.3	1268.7	1252.0
30°	1184.8	1198.8	1224.9	1230.7	1213.7
32.5°	1142.4	1156.4	1185.4	1190.2	1173.7
35°	1095.4	1112.5	1138.8	1146.8	1128.2
37.5°	1047.4	1064.1	1094.0	1101.1	1081.2
40°	997.8	1014.3	1043.7	1049.6	1030.5
42.5°	947.0	963.5	995.0	995.9	980.0
45°	895.1	911.0	940.3	941.1	922.5
47.5°	842.5	858.6	884.7	881.8	864.3
50°	789.3	804.5	827.4	821.5	805.8
52.5°	734.1	748.9	770.6	760.9	746.1
55°	678.7	692.4	710.5	700.2	688.7
57.5°	622.8	636.7	650.5	640.1	630.1
60°	566.5	578.6	590.0	579.4	571.7
62.5°	509.2	519.6	529.4	519.3	512.1
65°	451.2	460.4	468.5	459.2	451.5
67.5°	393.6	401.4	408.9	399.2	391.3
70°	336.0	342.7	349.6	339.6	332.3
72.5°	279.2	285.1	291.2	281.5	275.1
75°	223.9	229.0	234.0	225.5	220.5
77.5°	171.1	175.5	178.9	173.5	168.6
80°	122.1	125.3	127.4	125.2	120.7
82.5°	78.5	80.8	81.9	81.7	78.8
85°	42.7	43.4	45.5	45.9	44.4
87.5°	16.5	17.6	18.1	19.5	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)