

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: P489398

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-30-120-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: P489398
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-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

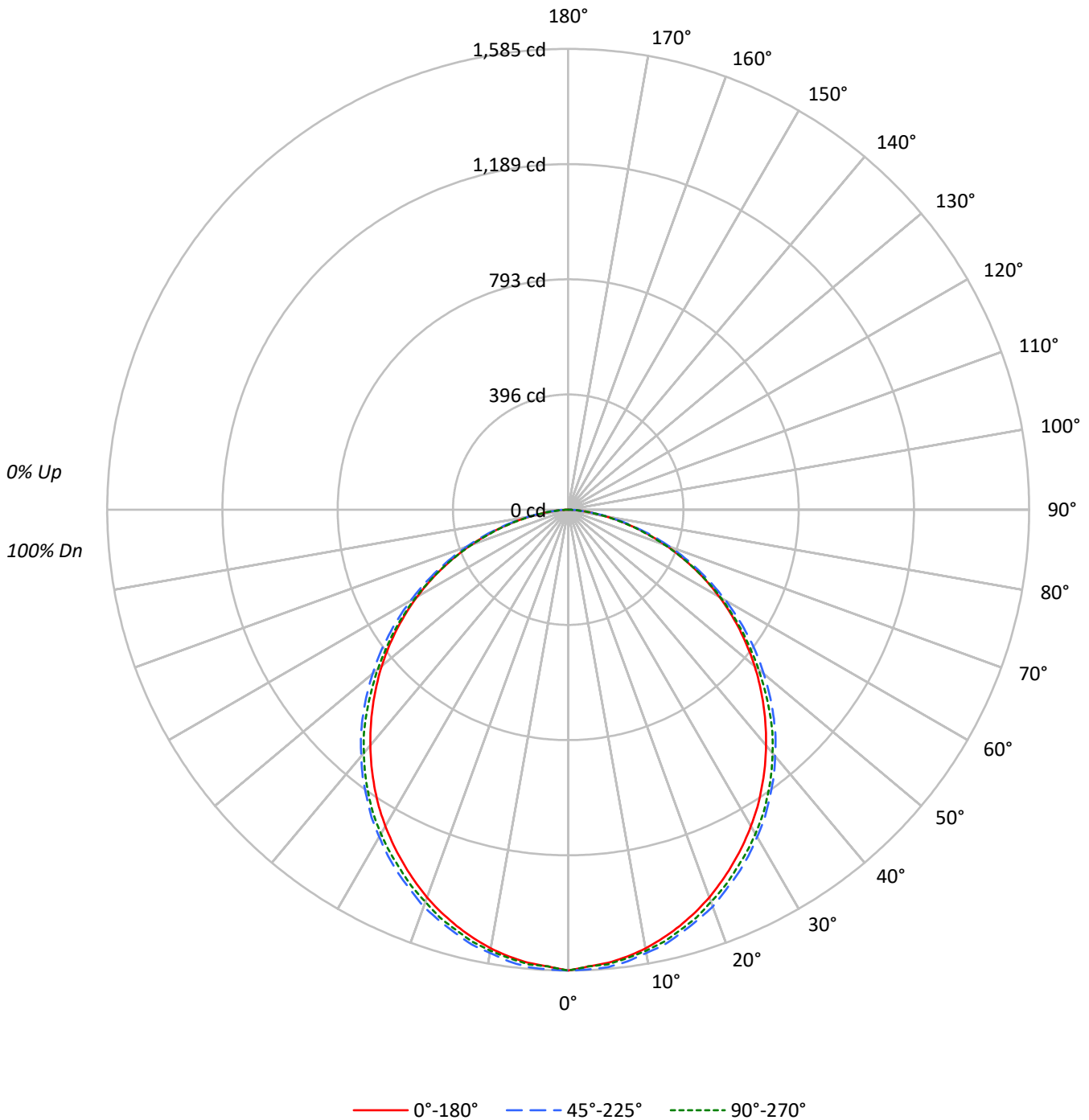
Lumens per Lamp: N/A
Luminaire Lumens: 4167.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2133	2133	2133
5°	2113	2133	2120
10°	2093	2115	2105
15°	2064	2098	2083
20°	2032	2080	2055
25°	1992	2050	2027
30°	1952	2018	2000
35°	1908	1984	1965
40°	1859	1944	1920
45°	1807	1898	1862
50°	1752	1837	1789
55°	1688	1768	1713
60°	1617	1684	1632
65°	1524	1582	1525
70°	1402	1458	1386
75°	1235	1290	1215
80°	1003	1047	992
85°	698	744	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	3.6
10°-20°	423.0	10.2
20°-30°	630.9	15.1
30°-40°	747.6	17.9
40°-50°	756.5	18.2
50°-60°	660.7	15.9
60°-70°	482.8	11.6
70°-80°	256.9	6.2
80°-90°	59.4	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°	1203.2	28.9
0°-40°	1950.9	46.8
0°-60°	3368.0	80.8
0°-90°	4167.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1564	1567	1579	1583	1569	148
15°	1482	1492	1506	1515	1496	418
25°	1342	1359	1381	1386	1365	618
35°	1162	1180	1208	1216	1197	727
45°	949	966	997	998	978	732
55°	720	734	754	743	730	643
65°	479	488	497	487	479	474
75°	238	243	248	239	234	253
85°	45	46	48	49	47	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.0	1585.0	1585.0	1585.0	1585.0
2.5°	1572.6	1577.8	1583.0	1585.3	1572.5
5°	1564.4	1567.3	1579.1	1582.7	1569.3
7.5°	1550.8	1555.3	1566.7	1568.3	1555.5
10°	1532.3	1540.3	1547.9	1556.1	1540.4
12.5°	1508.7	1519.5	1532.3	1533.8	1521.9
15°	1482.1	1492.0	1506.1	1515.2	1495.5
17.5°	1452.4	1462.0	1480.2	1481.8	1469.9
20°	1419.2	1431.1	1452.9	1456.7	1435.4
22.5°	1381.6	1397.6	1415.7	1419.4	1403.7
25°	1342.1	1358.6	1381.1	1386.2	1365.2
27.5°	1300.8	1316.7	1341.9	1345.6	1327.9
30°	1256.6	1271.4	1299.2	1305.3	1287.3
32.5°	1211.6	1226.5	1257.2	1262.3	1244.8
35°	1161.8	1179.9	1207.8	1216.3	1196.6
37.5°	1110.9	1128.6	1160.3	1167.9	1146.7
40°	1058.2	1075.7	1106.9	1113.2	1092.9
42.5°	1004.4	1021.9	1055.2	1056.2	1039.4
45°	949.4	966.2	997.3	998.1	978.5
47.5°	893.6	910.6	938.3	935.2	916.7
50°	837.1	853.3	877.6	871.3	854.6
52.5°	778.6	794.3	817.3	807.0	791.4
55°	719.8	734.4	753.5	742.6	730.4
57.5°	660.6	675.3	690.0	678.9	668.3
60°	600.8	613.7	625.7	614.5	606.4
62.5°	540.0	551.1	561.5	550.7	543.1
65°	478.6	488.3	496.9	487.0	478.9
67.5°	417.5	425.7	433.7	423.4	415.0
70°	356.4	363.5	370.7	360.2	352.4
72.5°	296.1	302.4	308.8	298.6	291.8
75°	237.5	242.9	248.2	239.1	233.8
77.5°	181.5	186.1	189.7	184.0	178.8
80°	129.5	132.9	135.1	132.8	128.0
82.5°	83.2	85.7	86.9	86.7	83.6
85°	45.2	46.1	48.2	48.7	47.1
87.5°	17.5	18.7	19.2	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)