

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: METALUX

Report Number: P225634

Luminaire Tested: **24AC-LD5-44-UNV-L830-CD1-U**

Issue Date: 3/3/2020

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: P225634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35753)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-44-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

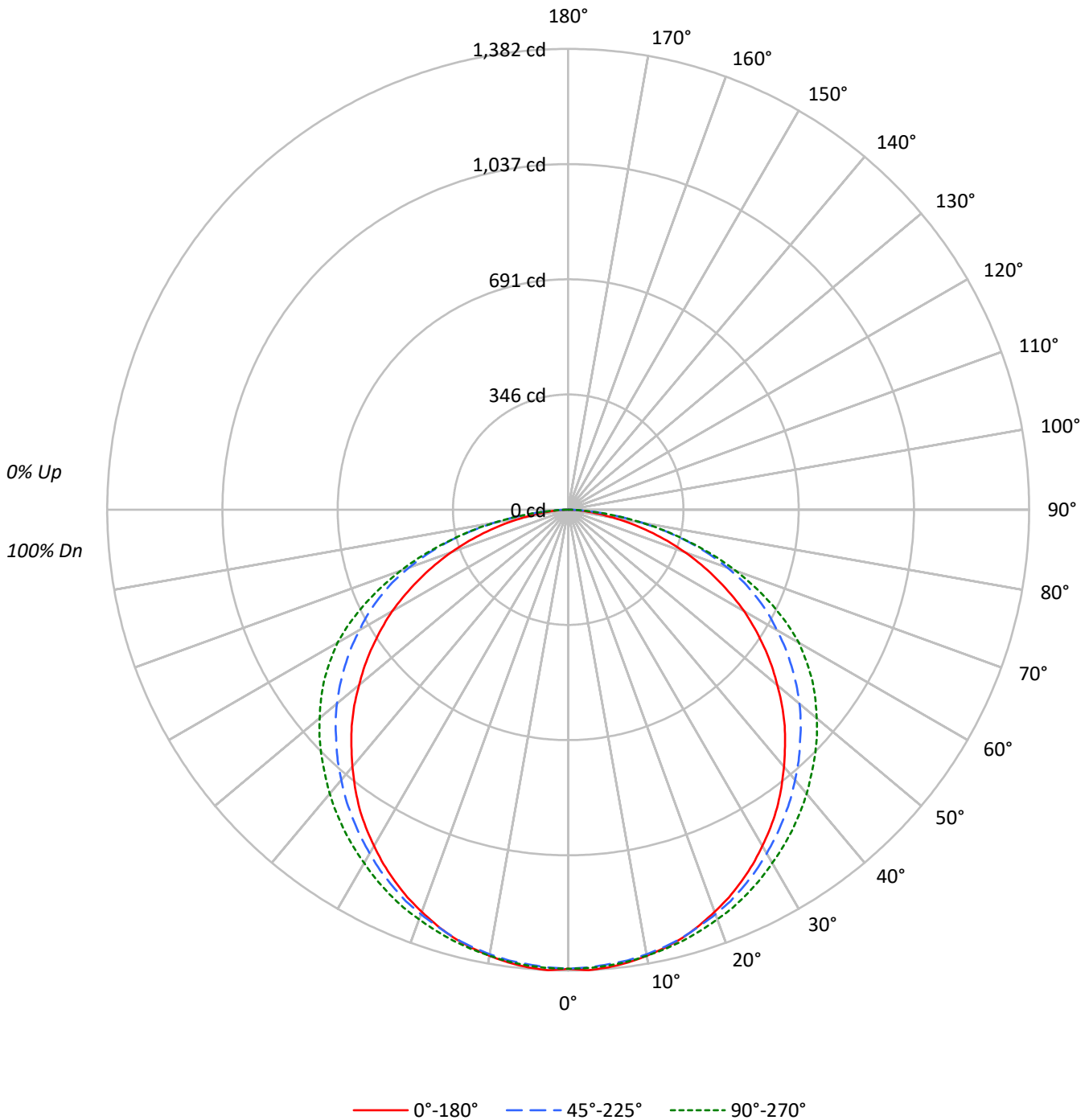
Lumens per Lamp: N/A
Luminaire Lumens: 4325.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.9
Input Voltage (V): 120
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



TEST NUMBER: P225634
CATALOG NUMBER: 24AC-LD5-44-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225634

CATALOG NUMBER: 24AC-LD5-44-UNV-L830-CD1-U

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1852	1852	1852
5°	1861	1849	1854
10°	1856	1849	1856
15°	1851	1849	1863
20°	1838	1849	1872
25°	1825	1849	1887
30°	1809	1849	1901
35°	1793	1852	1925
40°	1767	1859	1953
45°	1746	1871	1990
50°	1714	1895	2036
55°	1681	1916	2096
60°	1641	1944	2149
65°	1562	1988	2147
70°	1465	1998	2100
75°	1311	1941	1966
80°	1051	1737	1744
85°	743	1263	1189



TEST NUMBER: P225634

CATALOG NUMBER: 24AC-LD5-44-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.0
10°-20°	375.1	8.7
20°-30°	574.7	13.3
30°-40°	706.4	16.3
40°-50°	757.7	17.5
50°-60°	724.6	16.8
60°-70°	596.0	13.8
70°-80°	366.6	8.5
80°-90°	93.5	2.2
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°	1080.1	25.0
0°-40°	1786.5	41.3
0°-60°	3268.9	75.6
0°-90°	4325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1378	1372	1369	1367	1373	131
15°	1329	1324	1328	1330	1337	375
25°	1230	1230	1246	1259	1271	567
35°	1092	1099	1128	1156	1172	682
45°	918	935	983	1026	1046	707
55°	717	751	817	872	894	640
65°	491	546	624	662	674	486
75°	252	327	373	380	378	267
85°	48	79	82	79	77	59
90°	0	0	0	0	0	



TEST NUMBER: P225634

CATALOG NUMBER: 24AC-LD5-44-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.7	1376.7	1376.7	1376.7	1376.7
2.5°	1382.4	1375.7	1373.8	1370.9	1375.7
5°	1377.6	1371.9	1369.0	1367.0	1372.8
7.5°	1369.9	1364.2	1363.2	1361.3	1367.0
10°	1358.4	1353.6	1353.6	1352.6	1358.4
12.5°	1344.9	1339.2	1342.0	1343.0	1348.8
15°	1328.6	1323.8	1327.6	1329.5	1337.2
17.5°	1307.4	1303.6	1309.3	1315.1	1322.8
20°	1283.4	1282.4	1291.0	1298.7	1307.4
22.5°	1258.3	1258.3	1270.8	1279.5	1291.0
25°	1229.5	1229.5	1245.8	1259.3	1270.8
27.5°	1198.7	1200.6	1219.9	1236.2	1248.7
30°	1164.1	1169.8	1190.0	1210.2	1223.7
32.5°	1129.4	1134.2	1160.2	1186.2	1198.7
35°	1091.9	1098.6	1127.5	1156.4	1171.8
37.5°	1049.6	1059.2	1094.8	1126.5	1142.9
40°	1006.3	1018.8	1058.2	1094.8	1112.1
42.5°	962.0	979.4	1022.6	1060.2	1078.4
45°	917.8	935.1	983.2	1026.5	1045.7
47.5°	869.7	890.8	945.7	989.9	1011.1
50°	818.7	843.7	905.3	951.5	972.6
52.5°	768.7	797.5	862.0	913.9	934.1
55°	716.7	751.3	816.8	871.6	893.7
57.5°	662.8	702.3	771.6	827.3	846.6
60°	609.9	649.4	722.5	779.2	798.5
62.5°	550.3	598.4	676.3	729.2	739.8
65°	490.6	545.5	624.4	661.9	674.4
67.5°	432.0	491.6	570.5	597.4	605.1
70°	372.3	433.9	508.0	530.1	533.9
72.5°	311.7	381.0	443.5	456.0	457.9
75°	252.1	327.1	373.3	380.0	378.1
77.5°	193.4	267.4	300.2	303.0	304.0
80°	135.6	204.9	224.2	225.1	225.1
82.5°	87.5	142.4	152.0	150.1	152.0
85°	48.1	78.9	81.8	78.9	77.0
87.5°	15.4	23.1	25.0	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)