

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: P225635

Luminaire Tested: **24AC-LD5-48-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: P225635
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-LD5-48-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

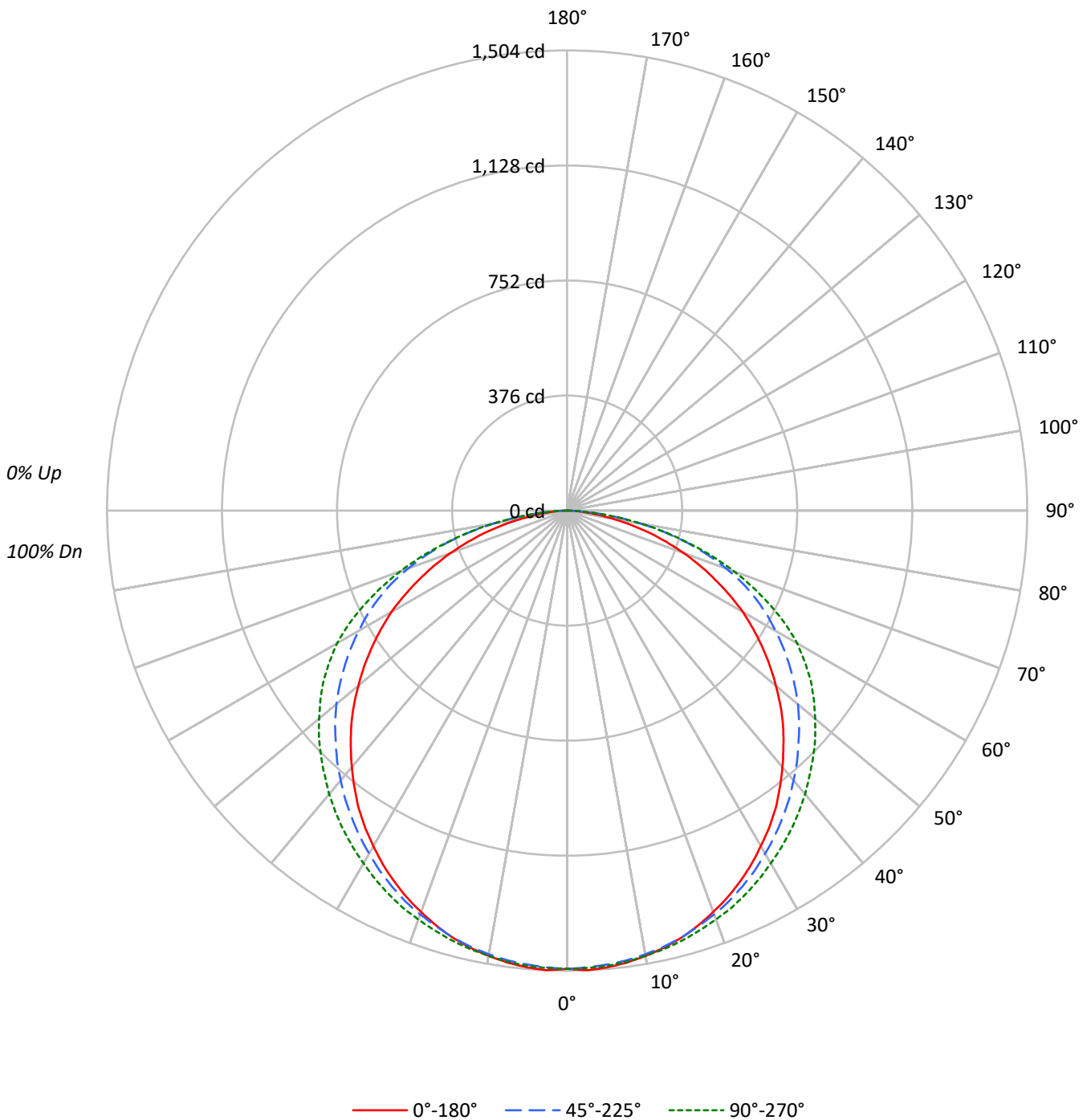
Lumens per Lamp: N/A
Luminaire Lumens: 4705.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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



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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	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°	2015	2015	2015
5°	2024	2011	2017
10°	2019	2012	2019
15°	2013	2012	2026
20°	1999	2011	2037
25°	1986	2012	2052
30°	1967	2011	2068
35°	1951	2015	2094
40°	1923	2022	2125
45°	1900	2035	2165
50°	1864	2061	2215
55°	1829	2084	2281
60°	1785	2115	2337
65°	1699	2162	2336
70°	1593	2174	2285
75°	1425	2111	2138
80°	1144	1889	1898
85°	807	1374	1292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	3.0
10°-20°	408.0	8.7
20°-30°	625.2	13.3
30°-40°	768.5	16.3
40°-50°	824.3	17.5
50°-60°	788.3	16.8
60°-70°	648.4	13.8
70°-80°	398.8	8.5
80°-90°	101.7	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°	1175.0	25.0
0°-40°	1943.5	41.3
0°-60°	3556.1	75.6
0°-90°	4705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1499	1492	1489	1487	1493	142
15°	1445	1440	1444	1446	1455	408
25°	1338	1338	1355	1370	1382	616
35°	1188	1195	1227	1258	1275	742
45°	998	1017	1070	1117	1138	769
55°	780	817	888	948	972	696
65°	534	593	679	720	734	529
75°	274	356	406	413	411	290
85°	52	86	89	86	84	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.6	1497.6	1497.6	1497.6	1497.6
2.5°	1503.9	1496.6	1494.5	1491.3	1496.6
5°	1498.7	1492.4	1489.3	1487.2	1493.4
7.5°	1490.3	1484.0	1483.0	1480.9	1487.2
10°	1477.7	1472.5	1472.5	1471.5	1477.7
12.5°	1463.1	1456.8	1460.0	1461.0	1467.3
15°	1445.3	1440.1	1444.3	1446.3	1454.7
17.5°	1422.3	1418.1	1424.4	1430.6	1439.0
20°	1396.1	1395.1	1404.5	1412.9	1422.3
22.5°	1368.9	1368.9	1382.5	1391.9	1404.5
25°	1337.5	1337.5	1355.3	1369.9	1382.5
27.5°	1304.0	1306.1	1327.0	1344.8	1358.4
30°	1266.3	1272.6	1294.6	1316.6	1331.2
32.5°	1228.7	1233.9	1262.2	1290.4	1304.0
35°	1187.8	1195.2	1226.6	1258.0	1274.7
37.5°	1141.8	1152.3	1191.0	1225.5	1243.3
40°	1094.7	1108.3	1151.2	1191.0	1209.8
42.5°	1046.6	1065.4	1112.5	1153.3	1173.2
45°	998.4	1017.3	1069.6	1116.7	1137.6
47.5°	946.1	969.1	1028.8	1076.9	1099.9
50°	890.6	917.8	984.8	1035.0	1058.1
52.5°	836.2	867.6	937.7	994.2	1016.2
55°	779.7	817.4	888.5	948.2	972.3
57.5°	721.1	764.0	839.3	900.0	921.0
60°	663.5	706.4	786.0	847.7	868.6
62.5°	598.6	651.0	735.7	793.3	804.8
65°	533.7	593.4	679.2	720.0	733.6
67.5°	469.9	534.8	620.6	649.9	658.3
70°	405.0	472.0	552.6	576.7	580.8
72.5°	339.1	414.4	482.5	496.1	498.2
75°	274.2	355.8	406.1	413.4	411.3
77.5°	210.4	290.9	326.5	329.7	330.7
80°	147.6	222.9	243.8	244.9	244.9
82.5°	95.2	154.9	165.4	163.3	165.4
85°	52.3	85.8	89.0	85.8	83.7
87.5°	16.7	25.1	27.2	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)