

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: P225644

Luminaire Tested: **24AC-LD5-48-UNV-L835-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: P225644
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-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4892.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

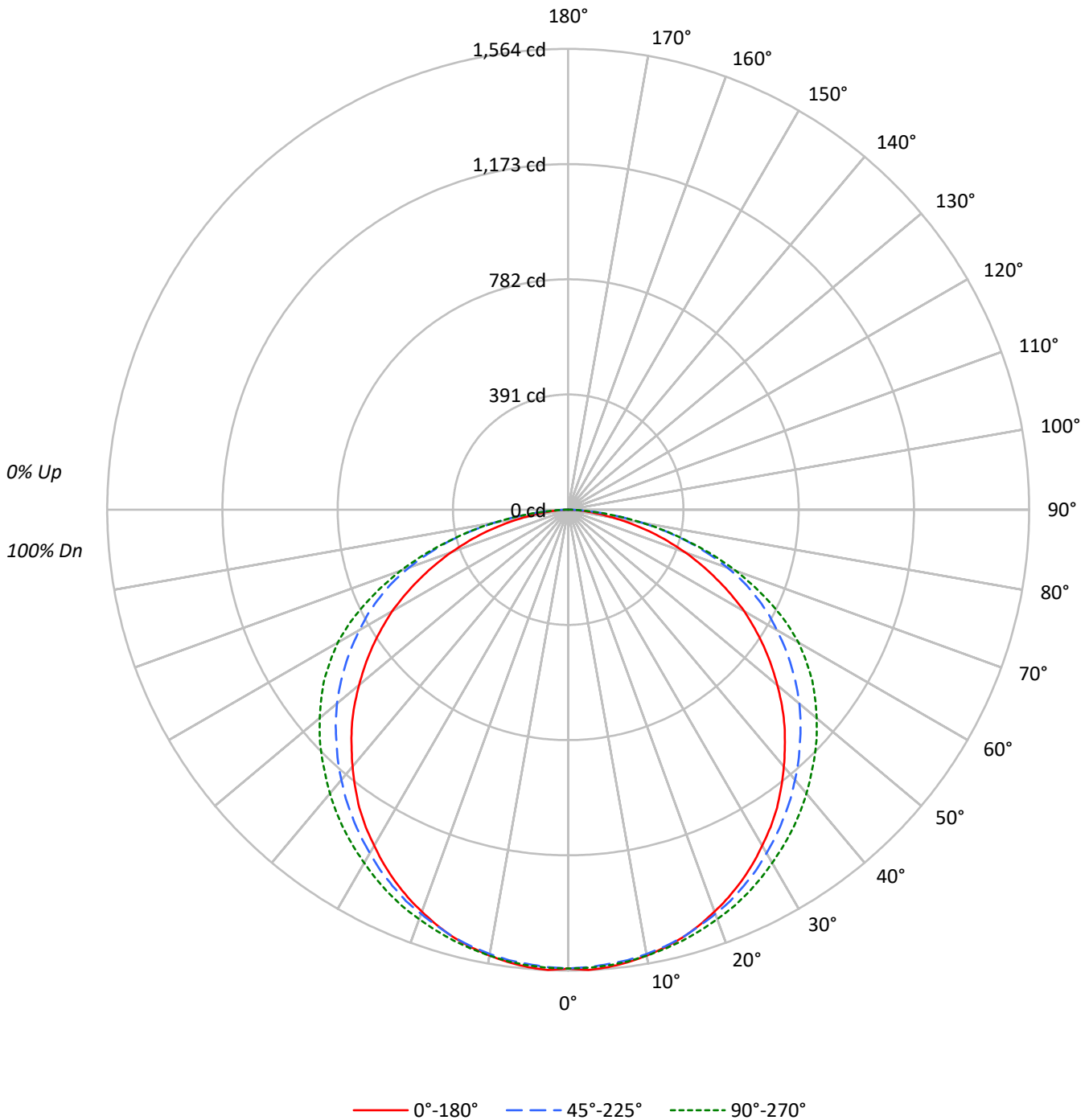
Input Watts (W): 41.88
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2095	2095	2095
5°	2105	2091	2097
10°	2099	2092	2099
15°	2093	2092	2107
20°	2078	2091	2117
25°	2065	2092	2134
30°	2046	2091	2150
35°	2029	2095	2177
40°	1999	2102	2209
45°	1975	2116	2251
50°	1938	2143	2303
55°	1902	2167	2371
60°	1857	2199	2430
65°	1767	2248	2429
70°	1657	2260	2376
75°	1482	2195	2223
80°	1189	1964	1973
85°	840	1428	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.0
10°-20°	424.2	8.7
20°-30°	650.1	13.3
30°-40°	799.0	16.3
40°-50°	857.1	17.5
50°-60°	819.6	16.8
60°-70°	674.2	13.8
70°-80°	414.6	8.5
80°-90°	105.8	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°	1221.7	25.0
0°-40°	2020.7	41.3
0°-60°	3697.4	75.6
0°-90°	4892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1558	1552	1548	1546	1553	148
15°	1503	1497	1502	1504	1512	424
25°	1391	1391	1409	1424	1438	641
35°	1235	1243	1275	1308	1325	772
45°	1038	1058	1112	1161	1183	800
55°	811	850	924	986	1011	724
65°	555	617	706	749	763	550
75°	285	370	422	430	428	301
85°	54	89	92	89	87	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.1	1557.1	1557.1	1557.1	1557.1
2.5°	1563.7	1556.1	1553.9	1550.6	1556.1
5°	1558.2	1551.7	1548.4	1546.3	1552.8
7.5°	1549.5	1543.0	1541.9	1539.7	1546.3
10°	1536.5	1531.0	1531.0	1529.9	1536.5
12.5°	1521.2	1514.7	1518.0	1519.1	1525.6
15°	1502.7	1497.3	1501.7	1503.8	1512.5
17.5°	1478.8	1474.4	1481.0	1487.5	1496.2
20°	1451.6	1450.5	1460.3	1469.0	1478.8
22.5°	1423.3	1423.3	1437.5	1447.2	1460.3
25°	1390.7	1390.7	1409.2	1424.4	1437.5
27.5°	1355.8	1358.0	1379.8	1398.3	1412.4
30°	1316.7	1323.2	1346.0	1368.9	1384.1
32.5°	1277.5	1282.9	1312.3	1341.7	1355.8
35°	1235.1	1242.7	1275.3	1308.0	1325.4
37.5°	1187.2	1198.1	1238.3	1274.2	1292.7
40°	1138.2	1152.4	1197.0	1238.3	1257.9
42.5°	1088.2	1107.7	1156.7	1199.1	1219.8
45°	1038.1	1057.7	1112.1	1161.1	1182.8
47.5°	983.7	1007.6	1069.7	1119.7	1143.7
50°	926.0	954.3	1024.0	1076.2	1100.1
52.5°	869.4	902.1	975.0	1033.7	1056.6
55°	810.7	849.8	923.8	985.9	1010.9
57.5°	749.7	794.4	872.7	935.8	957.6
60°	689.9	734.5	817.2	881.4	903.2
62.5°	622.4	676.8	765.0	824.8	836.8
65°	555.0	617.0	706.2	748.7	762.8
67.5°	488.6	556.0	645.3	675.7	684.4
70°	421.1	490.8	574.5	599.6	603.9
72.5°	352.6	430.9	501.6	515.8	518.0
75°	285.1	370.0	422.2	429.8	427.6
77.5°	218.7	302.5	339.5	342.8	343.9
80°	153.4	231.8	253.5	254.6	254.6
82.5°	99.0	161.0	171.9	169.8	171.9
85°	54.4	89.2	92.5	89.2	87.1
87.5°	17.4	26.1	28.3	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)