

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: P225643

Luminaire Tested: **24AC-LD5-44-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: P225643
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-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: 4496.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

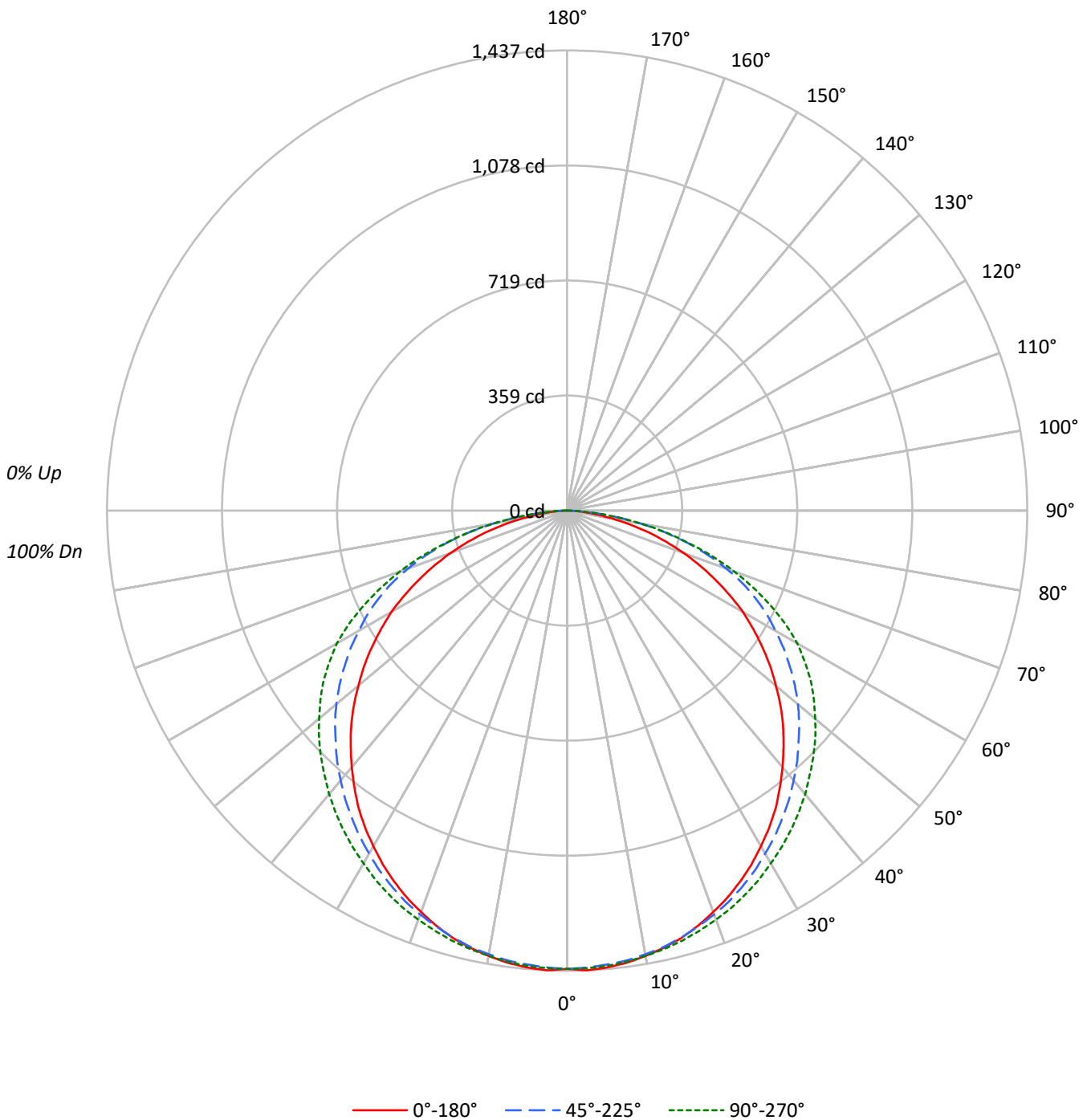
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1926	1926	1926
5°	1934	1922	1927
10°	1929	1922	1929
15°	1924	1922	1936
20°	1910	1922	1946
25°	1897	1923	1961
30°	1880	1922	1976
35°	1864	1925	2001
40°	1837	1932	2031
45°	1815	1945	2069
50°	1782	1970	2116
55°	1748	1992	2179
60°	1706	2021	2234
65°	1624	2066	2232
70°	1522	2077	2183
75°	1362	2017	2043
80°	1093	1805	1813
85°	772	1312	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.0
10°-20°	389.9	8.7
20°-30°	597.5	13.3
30°-40°	734.3	16.3
40°-50°	787.7	17.5
50°-60°	753.3	16.8
60°-70°	619.6	13.8
70°-80°	381.0	8.5
80°-90°	97.2	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°	1122.8	25.0
0°-40°	1857.2	41.3
0°-60°	3398.2	75.6
0°-90°	4496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1432	1426	1423	1421	1427	136
15°	1381	1376	1380	1382	1390	389
25°	1278	1278	1295	1309	1321	589
35°	1135	1142	1172	1202	1218	709
45°	954	972	1022	1067	1087	735
55°	745	781	849	906	929	666
65°	510	567	649	688	701	505
75°	262	340	388	395	393	277
85°	50	82	85	82	80	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.1	1431.1	1431.1	1431.1	1431.1
2.5°	1437.1	1430.1	1428.1	1425.1	1430.1
5°	1432.1	1426.1	1423.1	1421.1	1427.1
7.5°	1424.1	1418.1	1417.1	1415.1	1421.1
10°	1412.1	1407.1	1407.1	1406.1	1412.1
12.5°	1398.1	1392.1	1395.1	1396.1	1402.1
15°	1381.1	1376.1	1380.1	1382.1	1390.1
17.5°	1359.1	1355.1	1361.1	1367.1	1375.1
20°	1334.1	1333.1	1342.1	1350.1	1359.1
22.5°	1308.1	1308.1	1321.1	1330.1	1342.1
25°	1278.1	1278.1	1295.1	1309.1	1321.1
27.5°	1246.1	1248.1	1268.1	1285.1	1298.1
30°	1210.1	1216.1	1237.1	1258.1	1272.1
32.5°	1174.1	1179.1	1206.1	1233.1	1246.1
35°	1135.1	1142.1	1172.1	1202.1	1218.1
37.5°	1091.1	1101.1	1138.1	1171.1	1188.1
40°	1046.1	1059.1	1100.1	1138.1	1156.1
42.5°	1000.1	1018.1	1063.1	1102.1	1121.1
45°	954.1	972.1	1022.1	1067.1	1087.1
47.5°	904.1	926.1	983.1	1029.1	1051.1
50°	851.1	877.1	941.1	989.1	1011.1
52.5°	799.1	829.1	896.1	950.1	971.1
55°	745.1	781.1	849.1	906.1	929.1
57.5°	689.0	730.1	802.1	860.1	880.1
60°	634.0	675.0	751.1	810.1	830.1
62.5°	572.0	622.0	703.0	758.1	769.1
65°	510.0	567.0	649.0	688.0	701.0
67.5°	449.0	511.0	593.0	621.0	629.0
70°	387.0	451.0	528.0	551.0	555.0
72.5°	324.0	396.0	461.0	474.0	476.0
75°	262.0	340.0	388.0	395.0	393.0
77.5°	201.0	278.0	312.0	315.0	316.0
80°	141.0	213.0	233.0	234.0	234.0
82.5°	91.0	148.0	158.0	156.0	158.0
85°	50.0	82.0	85.0	82.0	80.0
87.5°	16.0	24.0	26.0	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)