

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: P225652

Luminaire Tested: **24AC-LD5-44-UNV-L840-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: P225652
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-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

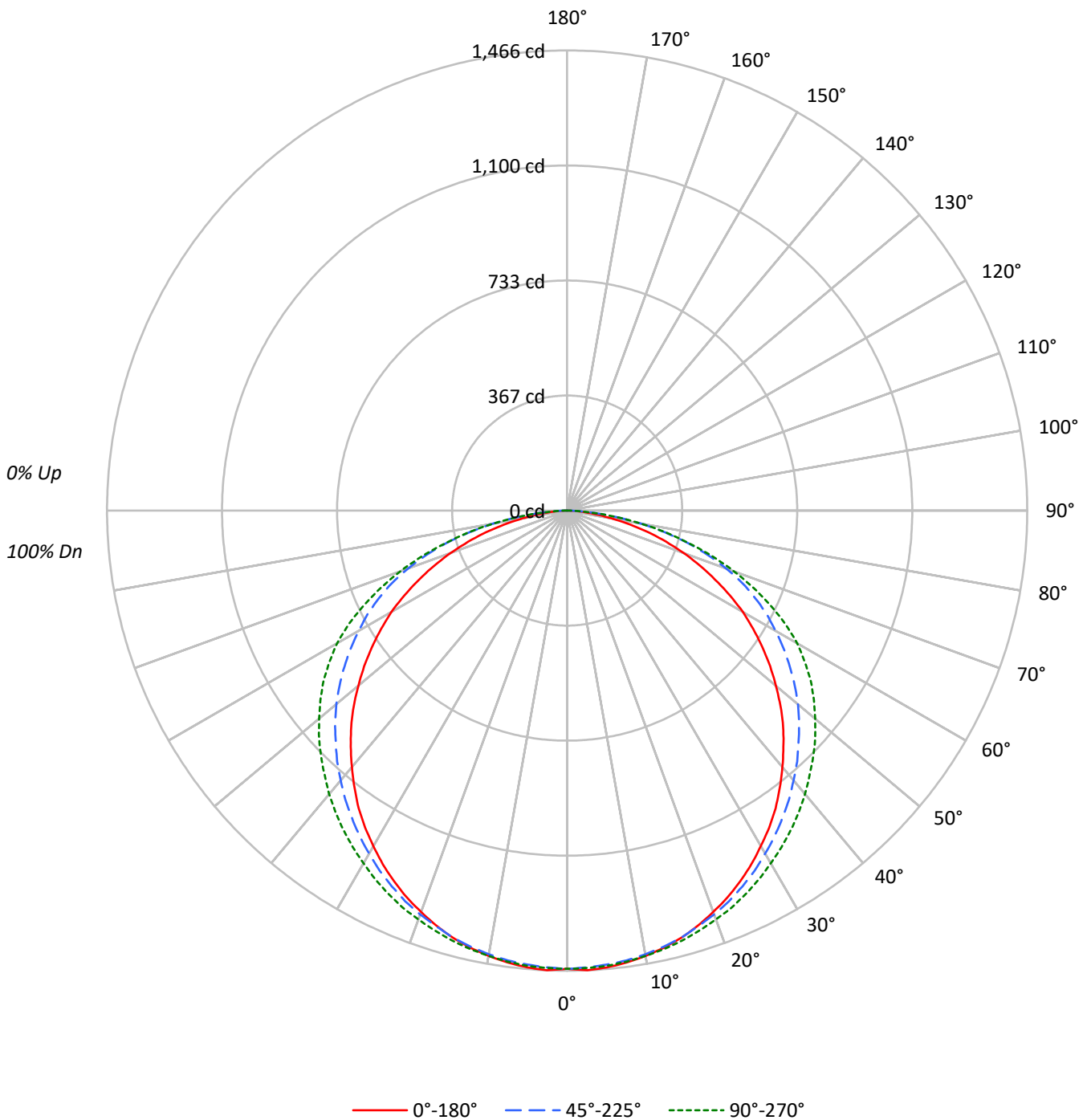
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1964	1964	1964
5°	1973	1961	1966
10°	1968	1961	1968
15°	1962	1961	1975
20°	1948	1960	1985
25°	1935	1961	2000
30°	1918	1961	2016
35°	1902	1964	2041
40°	1874	1971	2071
45°	1852	1984	2110
50°	1817	2009	2159
55°	1783	2032	2223
60°	1740	2062	2278
65°	1656	2108	2277
70°	1553	2119	2227
75°	1390	2058	2084
80°	1114	1842	1850
85°	787	1338	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.0
10°-20°	397.7	8.7
20°-30°	609.4	13.3
30°-40°	749.0	16.3
40°-50°	803.5	17.5
50°-60°	768.4	16.8
60°-70°	632.0	13.8
70°-80°	388.7	8.5
80°-90°	99.1	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°	1145.3	25.0
0°-40°	1894.3	41.3
0°-60°	3466.2	75.6
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1461	1455	1452	1450	1456	139
15°	1409	1404	1408	1410	1418	397
25°	1304	1304	1321	1335	1348	601
35°	1158	1165	1196	1226	1242	723
45°	973	992	1042	1088	1109	750
55°	760	797	866	924	948	679
65°	520	578	662	702	715	515
75°	267	347	396	403	401	283
85°	51	84	87	84	82	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.7	1459.7	1459.7	1459.7	1459.7
2.5°	1465.9	1458.7	1456.7	1453.6	1458.7
5°	1460.8	1454.6	1451.6	1449.5	1455.7
7.5°	1452.6	1446.5	1445.5	1443.4	1449.5
10°	1440.4	1435.3	1435.3	1434.2	1440.4
12.5°	1426.1	1420.0	1423.0	1424.0	1430.2
15°	1408.7	1403.6	1407.7	1409.8	1417.9
17.5°	1386.3	1382.2	1388.3	1394.5	1402.6
20°	1360.8	1359.8	1369.0	1377.1	1386.3
22.5°	1334.3	1334.3	1347.5	1356.7	1369.0
25°	1303.7	1303.7	1321.0	1335.3	1347.5
27.5°	1271.0	1273.1	1293.5	1310.8	1324.1
30°	1234.3	1240.4	1261.9	1283.3	1297.6
32.5°	1197.6	1202.7	1230.2	1257.8	1271.0
35°	1157.8	1164.9	1195.5	1226.1	1242.5
37.5°	1112.9	1123.1	1160.9	1194.5	1211.9
40°	1067.0	1080.3	1122.1	1160.9	1179.2
42.5°	1020.1	1038.5	1084.4	1124.1	1143.5
45°	973.2	991.5	1042.5	1088.4	1108.8
47.5°	922.2	944.6	1002.7	1049.7	1072.1
50°	868.1	894.6	959.9	1008.9	1031.3
52.5°	815.1	845.7	914.0	969.1	990.5
55°	760.0	796.7	866.1	924.2	947.7
57.5°	702.8	744.7	818.1	877.3	897.7
60°	646.7	688.6	766.1	826.3	846.7
62.5°	583.5	634.5	717.1	773.2	784.4
65°	520.2	578.4	662.0	701.8	715.1
67.5°	458.0	521.3	604.9	633.5	641.6
70°	394.8	460.1	538.6	562.1	566.1
72.5°	330.5	404.0	470.3	483.5	485.6
75°	267.3	346.8	395.8	402.9	400.9
77.5°	205.0	283.6	318.3	321.3	322.3
80°	143.8	217.3	237.7	238.7	238.7
82.5°	92.8	151.0	161.2	159.1	161.2
85°	51.0	83.6	86.7	83.6	81.6
87.5°	16.3	24.5	26.5	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)