

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: P225651

Luminaire Tested: **24AC-LD5-39-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: P225651
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-LD5-39-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

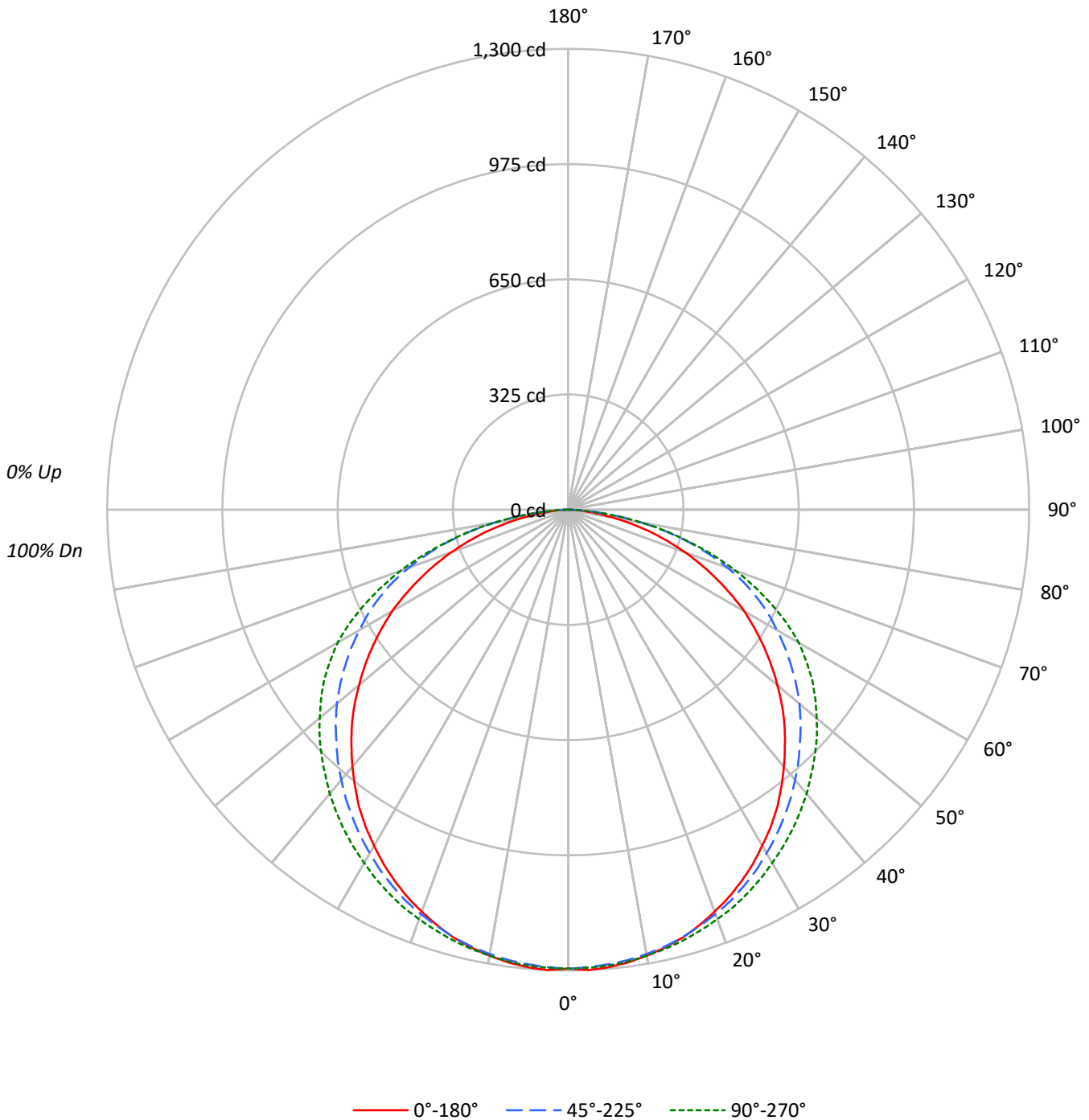
Lumens per Lamp: N/A
Luminaire Lumens: 4067.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.94
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°	1742	1742	1742
5°	1750	1739	1744
10°	1745	1739	1745
15°	1740	1739	1752
20°	1728	1738	1760
25°	1716	1739	1774
30°	1701	1739	1788
35°	1687	1741	1810
40°	1662	1748	1837
45°	1642	1759	1871
50°	1612	1782	1914
55°	1581	1802	1971
60°	1543	1828	2021
65°	1469	1869	2019
70°	1377	1879	1975
75°	1232	1825	1848
80°	989	1633	1640
85°	698	1187	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.0
10°-20°	352.7	8.7
20°-30°	540.4	13.3
30°-40°	664.3	16.3
40°-50°	712.5	17.5
50°-60°	681.4	16.8
60°-70°	560.5	13.8
70°-80°	344.7	8.5
80°-90°	87.9	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°	1015.7	25.0
0°-40°	1679.9	41.3
0°-60°	3073.9	75.6
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1296	1290	1287	1286	1291	123
15°	1249	1245	1248	1250	1258	352
25°	1156	1156	1172	1184	1195	533
35°	1027	1033	1060	1087	1102	642
45°	863	879	924	965	983	665
55°	674	706	768	820	840	602
65°	461	513	587	622	634	457
75°	237	308	351	357	356	251
85°	45	74	77	74	72	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1300.0	1293.6	1291.8	1289.1	1293.6
5°	1295.5	1290.0	1287.3	1285.5	1290.9
7.5°	1288.2	1282.8	1281.9	1280.1	1285.5
10°	1277.4	1272.8	1272.8	1271.9	1277.4
12.5°	1264.7	1259.3	1262.0	1262.9	1268.3
15°	1249.3	1244.8	1248.4	1250.2	1257.5
17.5°	1229.4	1225.8	1231.2	1236.7	1243.9
20°	1206.8	1205.9	1214.0	1221.3	1229.4
22.5°	1183.3	1183.3	1195.0	1203.2	1214.0
25°	1156.1	1156.1	1171.5	1184.2	1195.0
27.5°	1127.2	1129.0	1147.1	1162.5	1174.2
30°	1094.6	1100.0	1119.0	1138.0	1150.7
32.5°	1062.1	1066.6	1091.0	1115.4	1127.2
35°	1026.8	1033.1	1060.2	1087.4	1101.9
37.5°	987.0	996.0	1029.5	1059.3	1074.7
40°	946.3	958.0	995.1	1029.5	1045.8
42.5°	904.6	920.9	961.6	996.9	1014.1
45°	863.0	879.3	924.5	965.3	983.3
47.5°	817.8	837.7	889.3	930.9	950.8
50°	769.9	793.4	851.3	894.7	914.6
52.5°	722.8	750.0	810.6	859.4	878.4
55°	674.0	706.5	768.0	819.6	840.4
57.5°	623.3	660.4	725.5	778.0	796.1
60°	573.5	610.6	679.4	732.8	750.9
62.5°	517.5	562.7	636.0	685.7	695.7
65°	461.4	512.9	587.1	622.4	634.2
67.5°	406.2	462.3	536.5	561.8	569.0
70°	350.1	408.0	477.7	498.5	502.1
72.5°	293.1	358.2	417.0	428.8	430.6
75°	237.0	307.6	351.0	357.3	355.5
77.5°	181.8	251.5	282.2	285.0	285.9
80°	127.6	192.7	210.8	211.7	211.7
82.5°	82.3	133.9	142.9	141.1	142.9
85°	45.2	74.2	76.9	74.2	72.4
87.5°	14.5	21.7	23.5	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)