

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: P225671

Luminaire Tested: **24AC-LD5-48-RDP-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: P225671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-48-RDP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
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: 4176.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

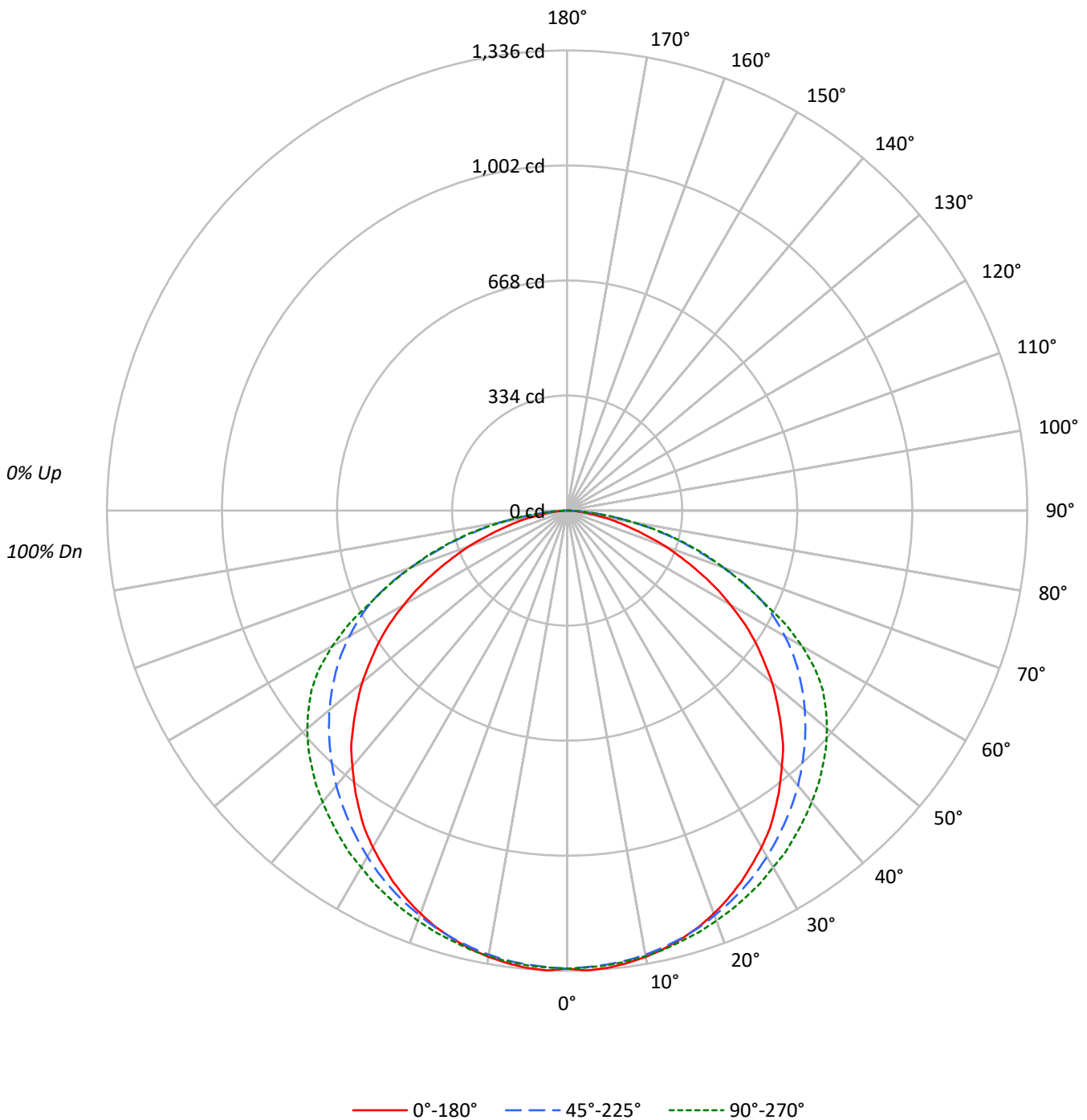
Input Watts (W): 41.88
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1789	1789	1789
5°	1801	1787	1790
10°	1798	1789	1795
15°	1792	1790	1801
20°	1782	1792	1814
25°	1769	1796	1834
30°	1753	1802	1858
35°	1732	1812	1895
40°	1703	1831	1940
45°	1669	1853	1996
50°	1626	1886	2061
55°	1567	1925	2124
60°	1473	1965	2117
65°	1344	1996	1992
70°	1194	1897	1897
75°	973	1748	1771
80°	751	1509	1484
85°	520	991	925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.0
10°-20°	363.3	8.7
20°-30°	558.5	13.4
30°-40°	691.0	16.5
40°-50°	748.1	17.9
50°-60°	717.5	17.2
60°-70°	569.5	13.6
70°-80°	327.1	7.8
80°-90°	75.1	1.8
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°	1047.8	25.1
0°-40°	1738.8	41.6
0°-60°	3204.4	76.7
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1333	1326	1323	1321	1325	127
15°	1286	1283	1285	1287	1293	363
25°	1192	1195	1210	1225	1235	549
35°	1054	1069	1103	1137	1154	659
45°	877	911	974	1028	1049	677
55°	668	727	820	882	905	595
65°	422	522	627	636	626	419
75°	187	301	336	340	341	203
85°	34	59	64	61	60	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1336.3	1329.8	1326.5	1324.4	1327.6
5°	1333.1	1326.5	1323.3	1321.1	1325.4
7.5°	1325.4	1320.0	1317.8	1316.7	1320.0
10°	1315.7	1310.2	1309.1	1308.0	1313.5
12.5°	1302.6	1298.2	1298.2	1298.2	1304.8
15°	1286.3	1283.0	1285.2	1287.4	1292.8
17.5°	1267.8	1264.5	1269.9	1274.3	1281.9
20°	1244.9	1244.9	1251.4	1258.0	1266.7
22.5°	1219.9	1222.1	1231.9	1242.7	1252.5
25°	1191.6	1194.9	1210.1	1225.3	1235.1
27.5°	1160.0	1166.6	1186.2	1205.7	1217.7
30°	1128.5	1135.0	1160.0	1184.0	1195.9
32.5°	1094.7	1102.4	1132.8	1161.1	1177.4
35°	1054.5	1068.6	1103.4	1137.2	1153.5
37.5°	1013.1	1032.7	1074.1	1112.2	1129.6
40°	969.6	993.5	1042.5	1086.0	1104.5
42.5°	928.2	953.3	1008.8	1057.7	1079.5
45°	877.1	910.8	974.0	1028.4	1049.0
47.5°	827.0	867.3	938.0	995.7	1019.7
50°	777.0	821.6	901.0	964.2	984.8
52.5°	720.4	774.8	861.9	925.0	946.7
55°	668.2	726.9	820.5	882.5	905.4
57.5°	610.5	676.9	778.1	839.0	853.2
60°	547.4	625.7	730.2	782.4	786.8
62.5°	487.5	575.7	681.2	713.9	715.0
65°	422.2	522.3	626.8	635.5	625.7
67.5°	361.3	465.8	559.3	552.8	556.1
70°	303.6	412.4	482.1	485.3	482.1
72.5°	240.5	356.9	405.9	413.5	414.6
75°	187.2	301.4	336.3	339.5	340.6
77.5°	142.6	241.6	262.3	267.7	271.0
80°	96.9	168.7	194.8	197.0	191.5
82.5°	63.1	108.8	124.1	124.1	123.0
85°	33.7	58.8	64.2	60.9	59.9
87.5°	12.0	17.4	19.6	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)