

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: P225642

Luminaire Tested: **24AC-LD5-39-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: P225642  
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-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**

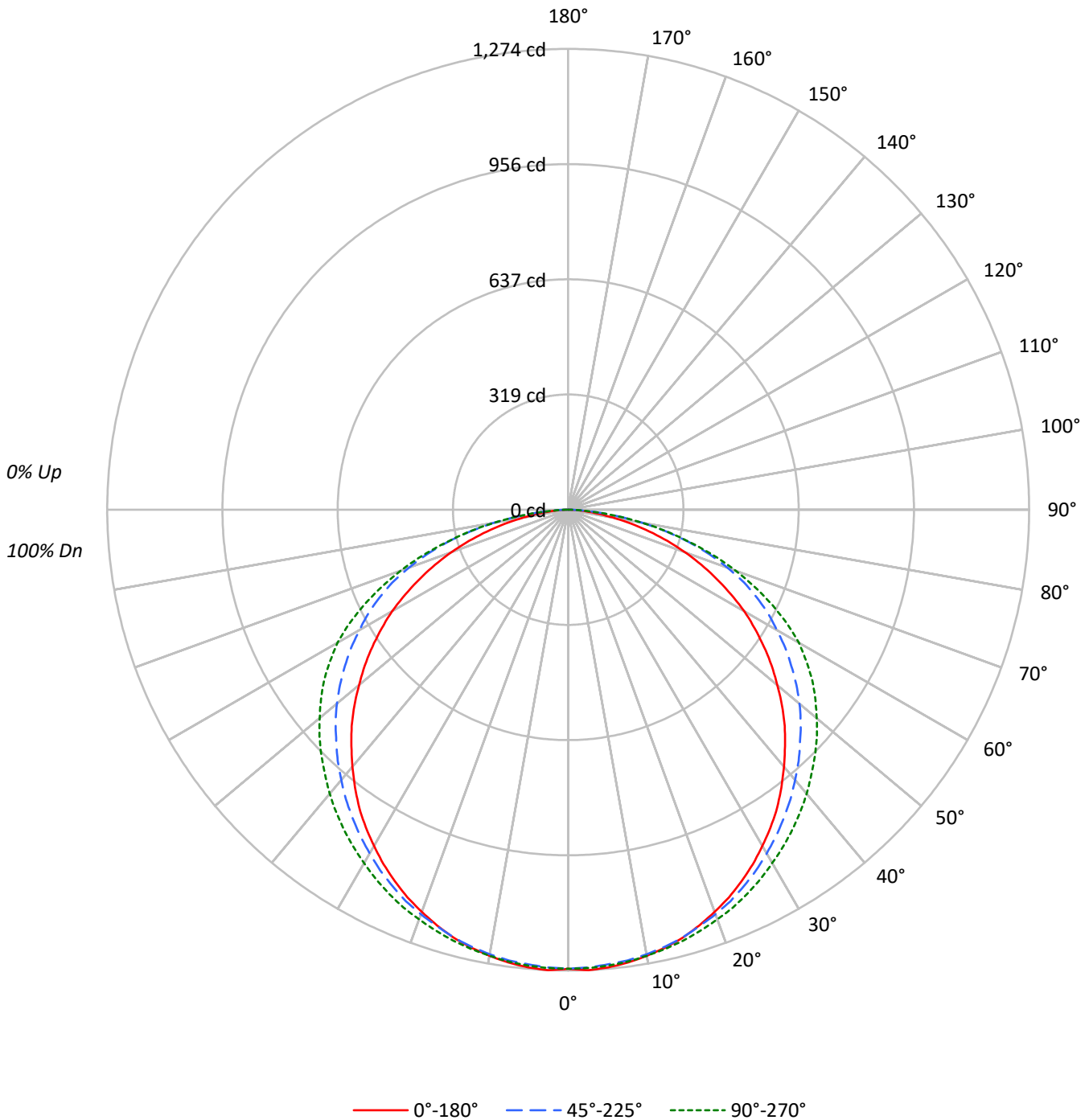
Lumens per Lamp: N/A  
Luminaire Lumens: 3987.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	1708	1708	1708
5°	1715	1704	1709
10°	1711	1705	1711
15°	1706	1705	1717
20°	1694	1704	1726
25°	1683	1705	1739
30°	1667	1704	1753
35°	1653	1707	1774
40°	1629	1713	1801
45°	1610	1725	1834
50°	1580	1747	1877
55°	1550	1766	1933
60°	1513	1792	1981
65°	1440	1833	1979
70°	1350	1842	1936
75°	1208	1789	1812
80°	969	1601	1608
85°	684	1164	1095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	3.0
10°-20°	345.7	8.7
20°-30°	529.8	13.3
30°-40°	651.2	16.3
40°-50°	698.5	17.5
50°-60°	668.0	16.8
60°-70°	549.5	13.8
70°-80°	337.9	8.5
80°-90°	86.2	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°	995.7	25.0
0°-40°	1646.9	41.3
0°-60°	3013.4	75.6
0°-90°	3987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1270	1265	1262	1260	1266	121
15°	1225	1220	1224	1226	1233	345
25°	1133	1133	1148	1161	1172	522
35°	1007	1013	1039	1066	1080	629
45°	846	862	906	946	964	652
55°	661	693	753	804	824	590
65°	452	503	576	610	622	448
75°	232	302	344	350	348	246
85°	44	73	75	73	71	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1269.1	1269.1	1269.1	1269.1	1269.1
2.5°	1274.4	1268.2	1266.4	1263.8	1268.2
5°	1270.0	1264.6	1262.0	1260.2	1265.5
7.5°	1262.9	1257.6	1256.7	1254.9	1260.2
10°	1252.2	1247.8	1247.8	1246.9	1252.2
12.5°	1239.8	1234.5	1237.2	1238.0	1243.4
15°	1224.7	1220.3	1223.9	1225.6	1232.7
17.5°	1205.2	1201.7	1207.0	1212.3	1219.4
20°	1183.1	1182.2	1190.2	1197.2	1205.2
22.5°	1160.0	1160.0	1171.5	1179.5	1190.2
25°	1133.4	1133.4	1148.5	1160.9	1171.5
27.5°	1105.0	1106.8	1124.5	1139.6	1151.1
30°	1073.1	1078.4	1097.0	1115.7	1128.1
32.5°	1041.2	1045.6	1069.5	1093.5	1105.0
35°	1006.6	1012.8	1039.4	1066.0	1080.2
37.5°	967.6	976.4	1009.2	1038.5	1053.6
40°	927.6	939.2	975.5	1009.2	1025.2
42.5°	886.9	902.8	942.7	977.3	994.2
45°	846.1	862.0	906.4	946.3	964.0
47.5°	801.7	821.2	871.8	912.6	932.1
50°	754.7	777.8	834.5	877.1	896.6
52.5°	708.6	735.2	794.6	842.5	861.1
55°	660.7	692.6	752.9	803.5	823.9
57.5°	611.0	647.4	711.3	762.7	780.4
60°	562.3	598.6	666.0	718.3	736.1
62.5°	507.3	551.6	623.5	672.2	682.0
65°	452.3	502.8	575.6	610.2	621.7
67.5°	398.2	453.2	525.9	550.7	557.8
70°	343.2	400.0	468.3	488.7	492.2
72.5°	287.3	351.2	408.8	420.4	422.1
75°	232.4	301.5	344.1	350.3	348.5
77.5°	178.3	246.5	276.7	279.4	280.2
80°	125.0	188.9	206.6	207.5	207.5
82.5°	80.7	131.3	140.1	138.3	140.1
85°	44.3	72.7	75.4	72.7	70.9
87.5°	14.2	21.3	23.1	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)