

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: P225641

Luminaire Tested: **24AC-LD5-36-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: P225641  
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-LD5-36-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**

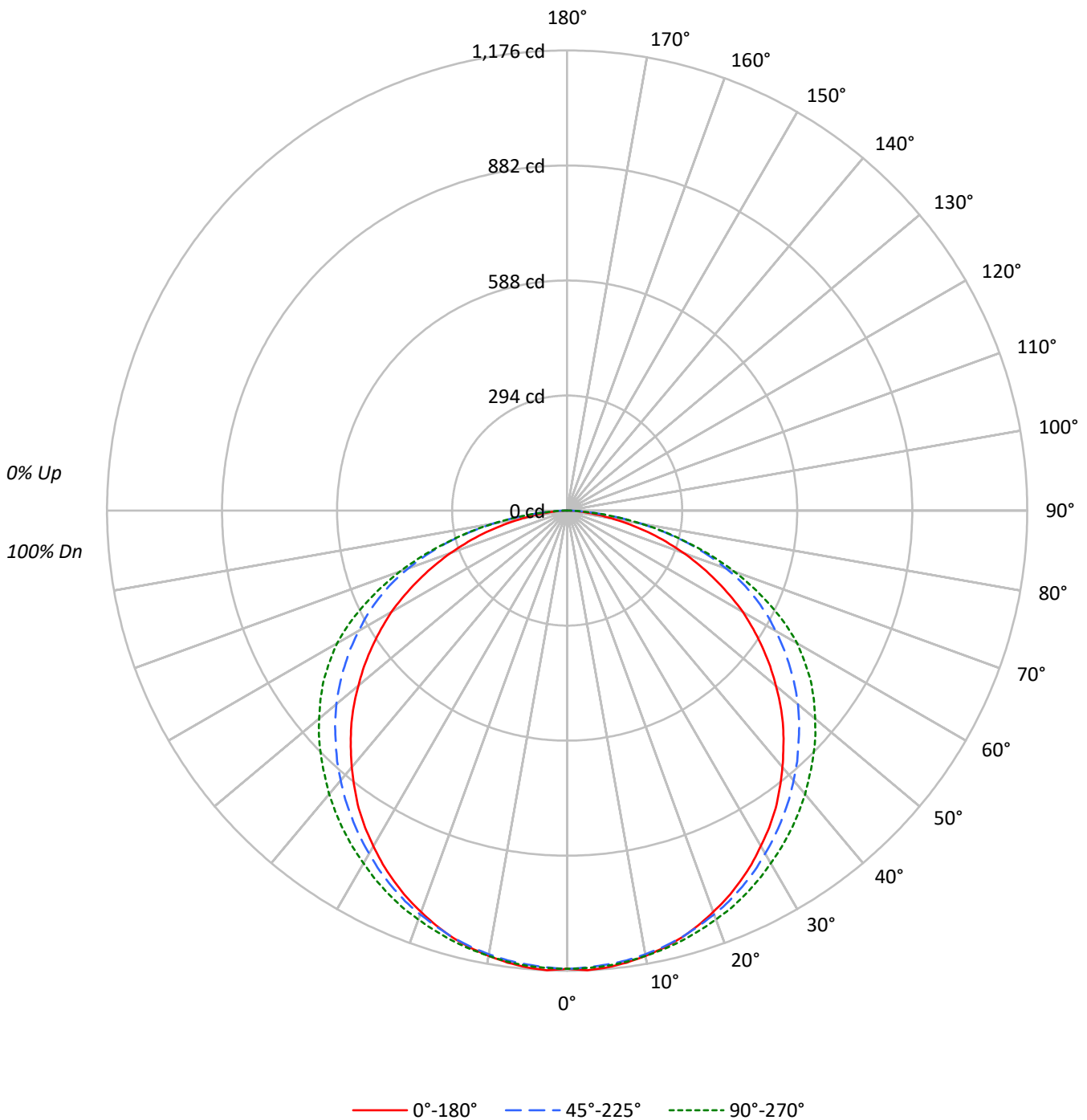
Lumens per Lamp: N/A  
Luminaire Lumens: 3679.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.06  
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



TEST NUMBER: P225641  
CATALOG NUMBER: 24AC-LD5-36-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225641

CATALOG NUMBER: 24AC-LD5-36-UNV-L835-CD1-U

**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°	1576	1576	1576
5°	1583	1573	1577
10°	1579	1573	1579
15°	1574	1573	1584
20°	1563	1572	1592
25°	1553	1573	1605
30°	1538	1573	1617
35°	1526	1575	1637
40°	1503	1581	1662
45°	1486	1591	1693
50°	1458	1612	1732
55°	1430	1630	1783
60°	1396	1654	1828
65°	1329	1691	1826
70°	1246	1700	1787
75°	1115	1651	1672
80°	894	1478	1484
85°	631	1074	1011



TEST NUMBER: P225641

CATALOG NUMBER: 24AC-LD5-36-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.9	3.0
10°-20°	319.0	8.7
20°-30°	488.9	13.3
30°-40°	600.9	16.3
40°-50°	644.6	17.5
50°-60°	616.4	16.8
60°-70°	507.0	13.8
70°-80°	311.8	8.5
80°-90°	79.5	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°	918.8	25.0
0°-40°	1519.7	41.3
0°-60°	2780.6	75.6
0°-90°	3679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1172	1167	1164	1163	1168	111
15°	1130	1126	1129	1131	1138	319
25°	1046	1046	1060	1071	1081	482
35°	929	934	959	984	997	580
45°	781	795	836	873	890	601
55°	610	639	695	741	760	545
65°	417	464	531	563	574	413
75°	214	278	318	323	322	227
85°	41	67	70	67	66	51
90°	0	0	0	0	0	



TEST NUMBER: P225641

CATALOG NUMBER: 24AC-LD5-36-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1171.0	1171.0	1171.0	1171.0	1171.0
2.5°	1176.0	1170.2	1168.6	1166.1	1170.2
5°	1171.9	1167.0	1164.5	1162.9	1167.8
7.5°	1165.3	1160.4	1159.6	1158.0	1162.9
10°	1155.5	1151.4	1151.4	1150.6	1155.5
12.5°	1144.0	1139.1	1141.6	1142.4	1147.3
15°	1130.1	1126.0	1129.3	1130.9	1137.5
17.5°	1112.1	1108.9	1113.8	1118.7	1125.2
20°	1091.7	1090.8	1098.2	1104.8	1112.1
22.5°	1070.4	1070.4	1081.0	1088.4	1098.2
25°	1045.8	1045.8	1059.8	1071.2	1081.0
27.5°	1019.7	1021.3	1037.7	1051.6	1062.2
30°	990.2	995.1	1012.3	1029.5	1040.9
32.5°	960.7	964.8	986.9	1009.0	1019.7
35°	928.8	934.5	959.1	983.6	996.7
37.5°	892.8	901.0	931.3	958.3	972.2
40°	856.0	866.6	900.2	931.3	946.0
42.5°	818.3	833.1	869.9	901.8	917.4
45°	780.7	795.4	836.3	873.2	889.5
47.5°	739.8	757.8	804.4	842.1	860.1
50°	696.4	717.7	770.1	809.3	827.3
52.5°	653.9	678.4	733.2	777.4	794.6
55°	609.7	639.1	694.8	741.4	760.2
57.5°	563.8	597.4	656.3	703.8	720.1
60°	518.8	552.4	614.6	662.9	679.2
62.5°	468.1	509.0	575.3	620.3	629.3
65°	417.4	464.0	531.1	563.0	573.7
67.5°	367.4	418.2	485.3	508.2	514.7
70°	316.7	369.1	432.1	450.9	454.2
72.5°	265.1	324.1	377.3	387.9	389.5
75°	214.4	278.2	317.5	323.2	321.6
77.5°	164.5	227.5	255.3	257.8	258.6
80°	115.4	174.3	190.7	191.5	191.5
82.5°	74.5	121.1	129.3	127.7	129.3
85°	40.9	67.1	69.6	67.1	65.5
87.5°	13.1	19.6	21.3	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)