

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: P225661

Luminaire Tested: **24AC-LD5-44-RDP-UNV-L830-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: P225661
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-LD5-44-RDP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3691.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

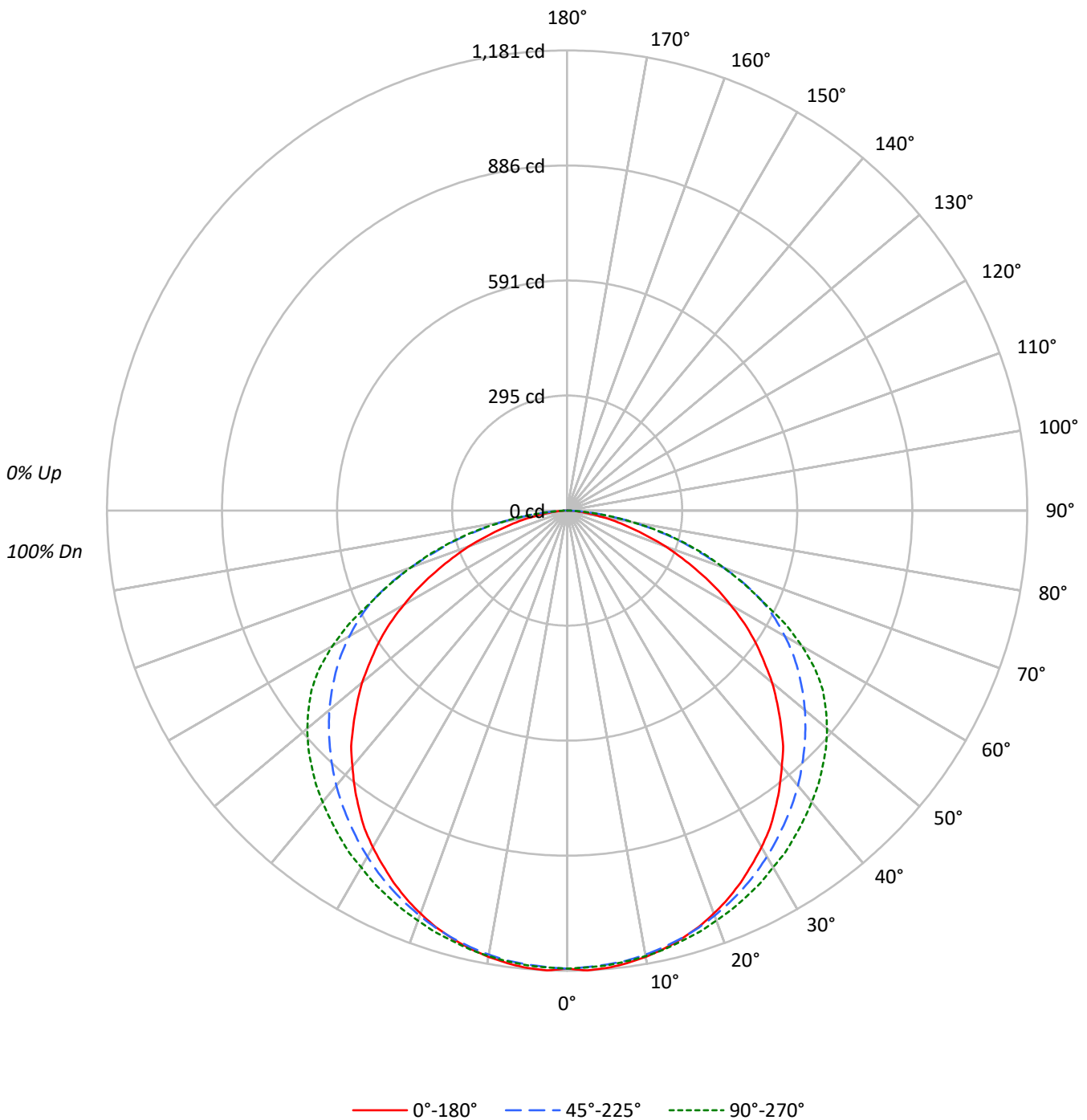
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1582	1582	1582
5°	1592	1580	1583
10°	1589	1581	1586
15°	1584	1583	1592
20°	1576	1584	1603
25°	1564	1588	1621
30°	1550	1593	1643
35°	1531	1602	1675
40°	1505	1619	1715
45°	1475	1638	1764
50°	1438	1667	1822
55°	1386	1701	1878
60°	1302	1737	1872
65°	1188	1764	1761
70°	1056	1677	1677
75°	860	1546	1565
80°	663	1334	1312
85°	460	877	817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.0
10°-20°	321.2	8.7
20°-30°	493.7	13.4
30°-40°	610.8	16.5
40°-50°	661.3	17.9
50°-60°	634.3	17.2
60°-70°	503.4	13.6
70°-80°	289.1	7.8
80°-90°	66.4	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°	926.3	25.1
0°-40°	1537.1	41.6
0°-60°	2832.7	76.7
0°-90°	3691.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3691.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1178	1173	1170	1168	1172	112
15°	1137	1134	1136	1138	1143	321
25°	1053	1056	1070	1083	1092	485
35°	932	945	975	1005	1020	583
45°	775	805	861	909	927	598
55°	591	643	725	780	800	526
65°	373	462	554	562	553	371
75°	166	266	297	300	301	179
85°	30	52	57	54	53	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.5	1175.5	1175.5	1175.5	1175.5
2.5°	1181.3	1175.5	1172.7	1170.7	1173.6
5°	1178.4	1172.7	1169.8	1167.8	1171.7
7.5°	1171.7	1166.9	1165.0	1164.0	1166.9
10°	1163.0	1158.2	1157.3	1156.3	1161.1
12.5°	1151.5	1147.6	1147.6	1147.6	1153.4
15°	1137.1	1134.2	1136.1	1138.0	1142.8
17.5°	1120.7	1117.8	1122.6	1126.5	1133.2
20°	1100.5	1100.5	1106.3	1112.0	1119.7
22.5°	1078.4	1080.3	1089.0	1098.6	1107.2
25°	1053.4	1056.3	1069.7	1083.2	1091.8
27.5°	1025.5	1031.2	1048.6	1065.9	1076.5
30°	997.6	1003.3	1025.5	1046.6	1057.2
32.5°	967.8	974.5	1001.4	1026.4	1040.9
35°	932.2	944.7	975.4	1005.3	1019.7
37.5°	895.6	912.9	949.5	983.1	998.5
40°	857.1	878.3	921.6	960.1	976.4
42.5°	820.6	842.7	891.8	935.0	954.3
45°	775.4	805.2	861.0	909.1	927.3
47.5°	731.1	766.7	829.2	880.2	901.4
50°	686.9	726.3	796.5	852.3	870.6
52.5°	636.8	684.9	761.9	817.7	836.9
55°	590.7	642.6	725.3	780.2	800.4
57.5°	539.7	598.4	687.8	741.7	754.2
60°	483.9	553.1	645.5	691.7	695.5
62.5°	431.0	508.9	602.2	631.1	632.0
65°	373.2	461.7	554.1	561.8	553.1
67.5°	319.4	411.7	494.5	488.7	491.6
70°	268.4	364.6	426.2	429.0	426.2
72.5°	212.6	315.5	358.8	365.6	366.5
75°	165.5	266.5	297.3	300.1	301.1
77.5°	126.0	213.6	231.8	236.6	239.5
80°	85.6	149.1	172.2	174.1	169.3
82.5°	55.8	96.2	109.7	109.7	108.7
85°	29.8	51.9	56.8	53.9	52.9
87.5°	10.6	15.4	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)