

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: P225679

Luminaire Tested: **24AC-LD5-44-RDP-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: P225679  
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-L840-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS  
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: 3914.8 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

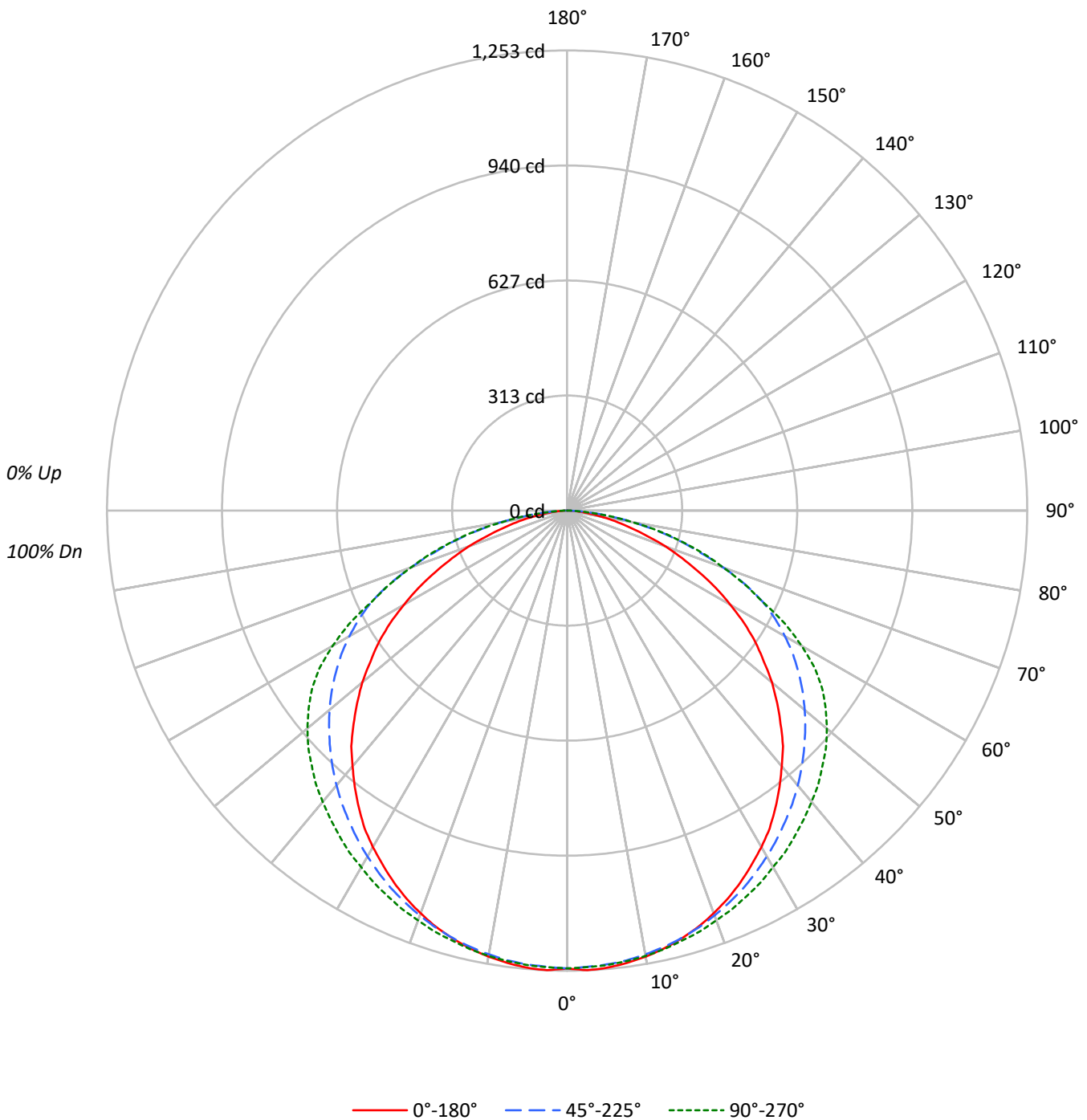
Input Watts (W): 37.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1677	1677	1677
5°	1688	1675	1678
10°	1685	1677	1682
15°	1680	1678	1688
20°	1671	1680	1700
25°	1658	1684	1719
30°	1644	1690	1742
35°	1624	1699	1776
40°	1596	1717	1819
45°	1564	1737	1871
50°	1525	1768	1932
55°	1469	1804	1991
60°	1381	1842	1985
65°	1260	1871	1868
70°	1120	1778	1778
75°	912	1639	1660
80°	704	1415	1391
85°	488	929	866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.1	3.0
10°-20°	340.6	8.7
20°-30°	523.6	13.4
30°-40°	647.7	16.5
40°-50°	701.3	17.9
50°-60°	672.6	17.2
60°-70°	533.9	13.6
70°-80°	306.6	7.8
80°-90°	70.4	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°	982.3	25.1
0°-40°	1630.0	41.6
0°-60°	3003.9	76.7
0°-90°	3914.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1250	1244	1240	1238	1242	119
15°	1206	1203	1205	1207	1212	340
25°	1117	1120	1134	1149	1158	515
35°	988	1002	1034	1066	1081	618
45°	822	854	913	964	983	634
55°	626	681	769	827	849	558
65°	396	490	588	596	587	393
75°	176	283	315	318	319	190
85°	32	55	60	57	56	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.6	1246.6	1246.6	1246.6	1246.6
2.5°	1252.7	1246.6	1243.5	1241.5	1244.6
5°	1249.7	1243.5	1240.5	1238.4	1242.5
7.5°	1242.5	1237.4	1235.4	1234.4	1237.4
10°	1233.3	1228.2	1227.2	1226.2	1231.3
12.5°	1221.1	1217.0	1217.0	1217.0	1223.1
15°	1205.8	1202.7	1204.8	1206.8	1211.9
17.5°	1188.4	1185.4	1190.5	1194.6	1201.7
20°	1167.0	1167.0	1173.1	1179.3	1187.4
22.5°	1143.6	1145.6	1154.8	1165.0	1174.2
25°	1117.0	1120.1	1134.4	1148.7	1157.8
27.5°	1087.5	1093.6	1111.9	1130.3	1141.5
30°	1057.9	1064.0	1087.5	1109.9	1121.1
32.5°	1026.2	1033.4	1062.0	1088.5	1103.8
35°	988.5	1001.8	1034.4	1066.0	1081.3
37.5°	949.7	968.1	1006.9	1042.6	1058.9
40°	908.9	931.4	977.3	1018.1	1035.4
42.5°	870.2	893.6	945.7	991.6	1012.0
45°	822.2	853.8	913.0	964.0	983.4
47.5°	775.3	813.0	879.4	933.4	955.9
50°	728.4	770.2	844.7	903.8	923.2
52.5°	675.3	726.3	807.9	867.1	887.5
55°	626.4	681.4	769.2	827.3	848.7
57.5°	572.3	634.5	729.4	786.5	799.8
60°	513.1	586.6	684.5	733.5	737.6
62.5°	457.0	539.6	638.6	669.2	670.2
65°	395.8	489.7	587.6	595.8	586.6
67.5°	338.7	436.6	524.3	518.2	521.3
70°	284.6	386.6	451.9	455.0	451.9
72.5°	225.4	334.6	380.5	387.6	388.7
75°	175.5	282.6	315.2	318.3	319.3
77.5°	133.6	226.5	245.9	251.0	254.0
80°	90.8	158.1	182.6	184.6	179.5
82.5°	59.2	102.0	116.3	116.3	115.3
85°	31.6	55.1	60.2	57.1	56.1
87.5°	11.2	16.3	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)