

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: P225662

Luminaire Tested: **24AC-LD5-48-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: P225662
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-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: 4016.7 lumens
Efficiency: N/A
Efficacy: 95.9 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

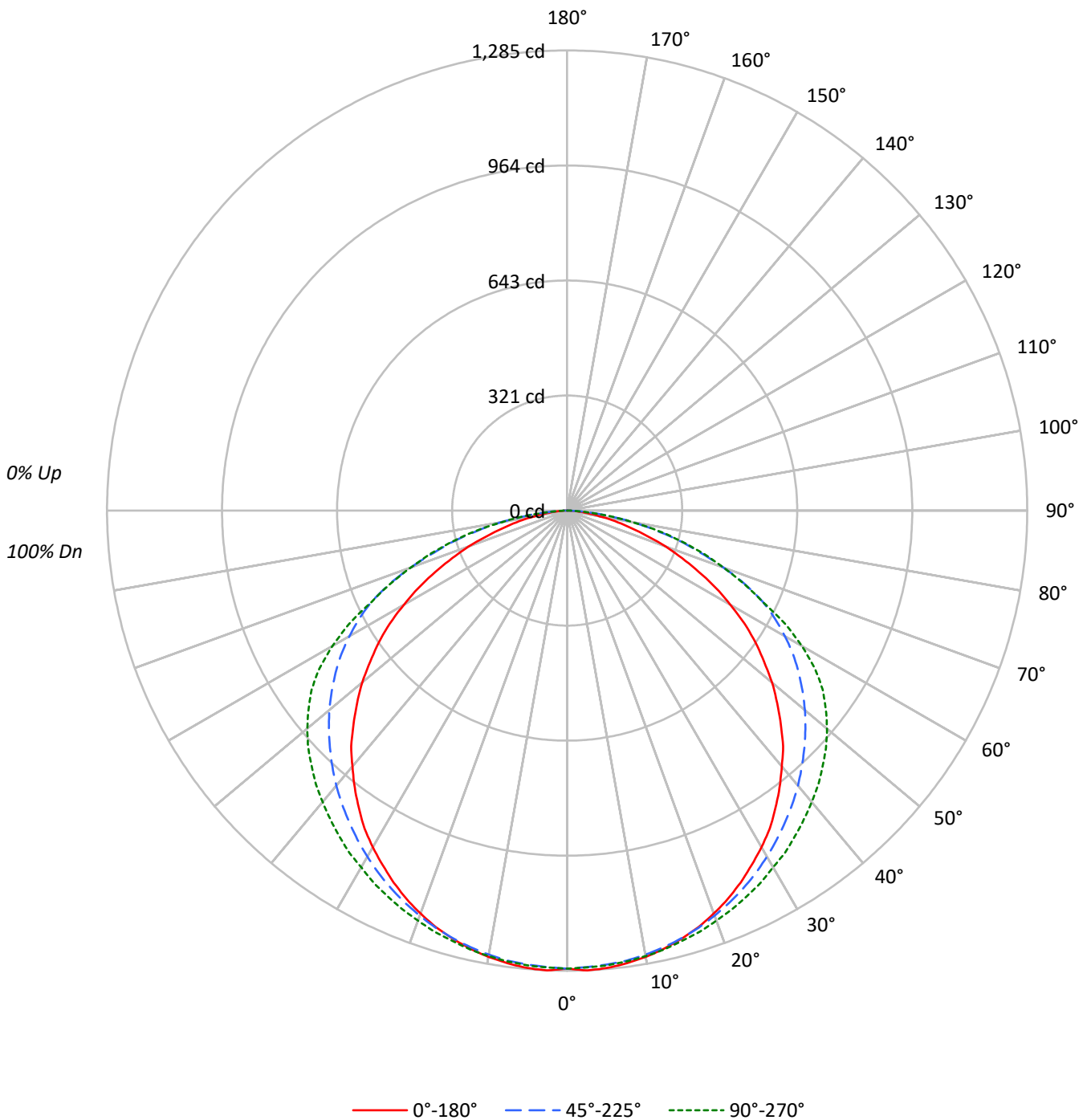
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1721	1721	1721
5°	1732	1719	1722
10°	1729	1720	1726
15°	1723	1722	1732
20°	1714	1724	1745
25°	1701	1728	1764
30°	1686	1734	1787
35°	1666	1743	1822
40°	1638	1761	1866
45°	1605	1783	1920
50°	1564	1814	1983
55°	1508	1851	2043
60°	1417	1890	2037
65°	1293	1919	1916
70°	1149	1824	1824
75°	936	1681	1703
80°	722	1452	1427
85°	500	954	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.0
10°-20°	349.4	8.7
20°-30°	537.2	13.4
30°-40°	664.6	16.5
40°-50°	719.5	17.9
50°-60°	690.1	17.2
60°-70°	547.8	13.6
70°-80°	314.6	7.8
80°-90°	72.3	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°	1007.9	25.1
0°-40°	1672.5	41.6
0°-60°	3082.1	76.7
0°-90°	4016.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1282	1276	1273	1271	1275	122
15°	1237	1234	1236	1238	1244	349
25°	1146	1149	1164	1179	1188	528
35°	1014	1028	1061	1094	1110	634
45°	844	876	937	989	1009	651
55°	643	699	789	849	871	572
65°	406	502	603	611	602	403
75°	180	290	323	327	328	195
85°	32	56	62	59	58	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1285.4	1279.1	1275.9	1273.8	1277.0
5°	1282.2	1275.9	1272.8	1270.7	1274.9
7.5°	1274.9	1269.7	1267.6	1266.5	1269.7
10°	1265.5	1260.2	1259.2	1258.1	1263.4
12.5°	1252.9	1248.7	1248.7	1248.7	1255.0
15°	1237.2	1234.1	1236.2	1238.3	1243.5
17.5°	1219.4	1216.3	1221.5	1225.7	1233.0
20°	1197.4	1197.4	1203.7	1210.0	1218.4
22.5°	1173.4	1175.5	1184.9	1195.3	1204.8
25°	1146.1	1149.3	1163.9	1178.6	1188.0
27.5°	1115.8	1122.1	1140.9	1159.8	1171.3
30°	1085.4	1091.7	1115.8	1138.8	1150.3
32.5°	1053.0	1060.3	1089.6	1116.8	1132.5
35°	1014.3	1027.9	1061.4	1093.8	1109.5
37.5°	974.5	993.3	1033.1	1069.7	1086.5
40°	932.6	955.6	1002.7	1044.6	1062.4
42.5°	892.8	916.9	970.3	1017.4	1038.3
45°	843.6	876.1	936.8	989.1	1009.0
47.5°	795.5	834.2	902.3	957.7	980.8
50°	747.3	790.3	866.7	927.4	947.3
52.5°	692.9	745.3	829.0	889.7	910.6
55°	642.7	699.2	789.2	848.9	870.9
57.5°	587.2	651.1	748.4	807.0	820.6
60°	526.5	601.9	702.3	752.6	756.8
62.5°	468.9	553.7	655.2	686.6	687.7
65°	406.1	502.4	602.9	611.3	601.9
67.5°	347.5	448.0	538.0	531.7	534.9
70°	292.0	396.7	463.7	466.8	463.7
72.5°	231.3	343.3	390.4	397.7	398.8
75°	180.0	289.9	323.4	326.6	327.6
77.5°	137.1	232.4	252.3	257.5	260.6
80°	93.2	162.2	187.4	189.5	184.2
82.5°	60.7	104.7	119.3	119.3	118.3
85°	32.4	56.5	61.8	58.6	57.6
87.5°	11.5	16.7	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)