

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: P225698

Luminaire Tested: **24AC-LD5-48-SQP-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: P225698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35754)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-48-SQP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS
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: 3974.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

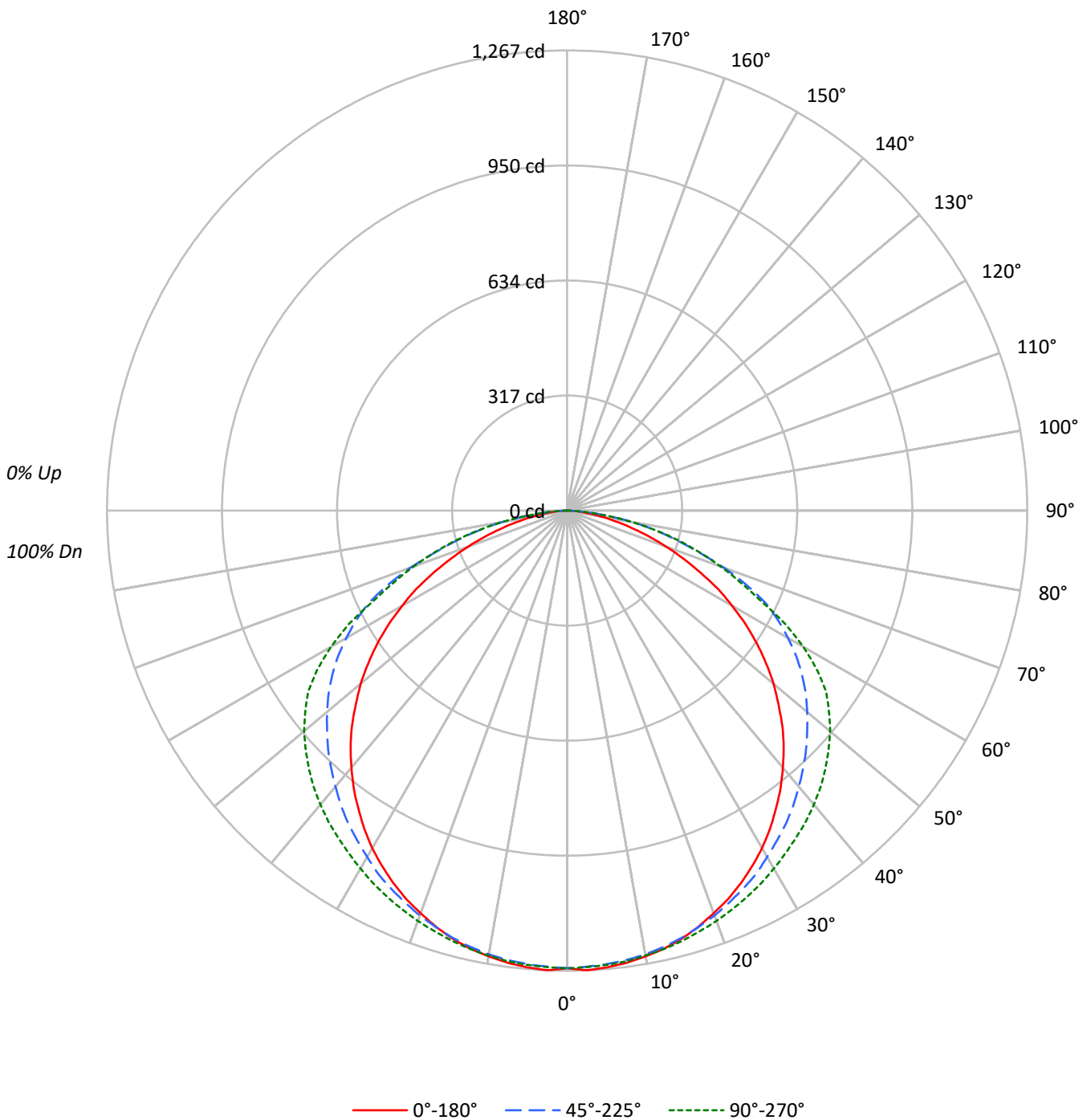
Input Watts (W): 41.88
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	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	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	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	29	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1695	1695	1695
5°	1705	1693	1696
10°	1702	1695	1699
15°	1699	1696	1708
20°	1689	1698	1722
25°	1680	1704	1742
30°	1667	1711	1769
35°	1646	1727	1805
40°	1623	1743	1856
45°	1594	1770	1913
50°	1553	1806	1979
55°	1496	1853	2042
60°	1411	1889	2021
65°	1292	1923	1874
70°	1139	1802	1768
75°	950	1618	1652
80°	750	1408	1399
85°	537	891	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.0
10°-20°	344.3	8.7
20°-30°	530.0	13.3
30°-40°	657.4	16.5
40°-50°	714.3	18.0
50°-60°	688.1	17.3
60°-70°	542.9	13.7
70°-80°	307.8	7.7
80°-90°	70.6	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°	993.7	25.0
0°-40°	1651.1	41.5
0°-60°	3053.5	76.8
0°-90°	3974.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3974.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1262	1257	1254	1251	1256	120
15°	1220	1217	1218	1220	1226	344
25°	1132	1133	1148	1162	1173	521
35°	1002	1015	1051	1083	1099	627
45°	838	866	930	984	1006	645
55°	638	696	790	849	871	569
65°	406	503	604	597	589	403
75°	183	290	311	316	318	197
85°	35	57	58	58	57	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.1	1260.1	1260.1	1260.1	1260.1
2.5°	1266.7	1260.1	1256.9	1254.7	1258.0
5°	1262.3	1256.9	1253.6	1251.4	1255.8
7.5°	1255.8	1250.3	1248.2	1246.0	1251.4
10°	1246.0	1241.6	1240.5	1239.5	1243.8
12.5°	1235.1	1230.7	1230.7	1231.8	1236.2
15°	1219.9	1216.6	1217.7	1219.9	1226.4
17.5°	1201.4	1198.1	1202.5	1206.8	1214.4
20°	1179.6	1179.6	1186.1	1192.7	1202.5
22.5°	1157.8	1157.8	1167.6	1178.5	1188.3
25°	1131.7	1132.8	1148.0	1162.2	1173.1
27.5°	1103.4	1106.7	1127.4	1143.7	1156.8
30°	1073.0	1078.4	1101.3	1125.2	1138.3
32.5°	1039.2	1046.8	1076.2	1105.6	1118.7
35°	1002.2	1015.3	1051.2	1082.8	1099.1
37.5°	965.2	979.4	1022.9	1059.9	1079.5
40°	923.9	945.6	992.4	1036.0	1056.6
42.5°	882.5	905.4	962.0	1010.9	1032.7
45°	837.9	866.2	930.4	983.7	1005.5
47.5°	788.9	825.9	896.7	954.3	976.1
50°	742.1	784.6	862.9	922.8	945.6
52.5°	689.9	740.0	828.1	889.1	908.6
55°	637.7	696.4	790.0	848.8	870.6
57.5°	582.2	648.6	748.7	803.1	816.1
60°	524.5	602.9	701.9	750.9	750.9
62.5°	469.0	552.8	655.1	675.8	677.9
65°	405.9	502.7	603.9	597.4	588.7
67.5°	347.1	453.8	534.3	514.7	515.8
70°	289.5	400.5	458.1	447.2	449.4
72.5°	234.0	345.0	377.6	382.0	382.0
75°	182.8	290.5	311.2	315.6	317.8
77.5°	136.0	232.9	247.0	250.3	248.1
80°	96.8	158.9	181.7	179.6	180.6
82.5°	60.9	102.3	115.3	117.5	114.3
85°	34.8	56.6	57.7	57.7	56.6
87.5°	12.0	17.4	18.5	17.4	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)