

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: P225650

Luminaire Tested: **24AC-LD5-36-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: P225650
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-L840-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
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: 3753.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

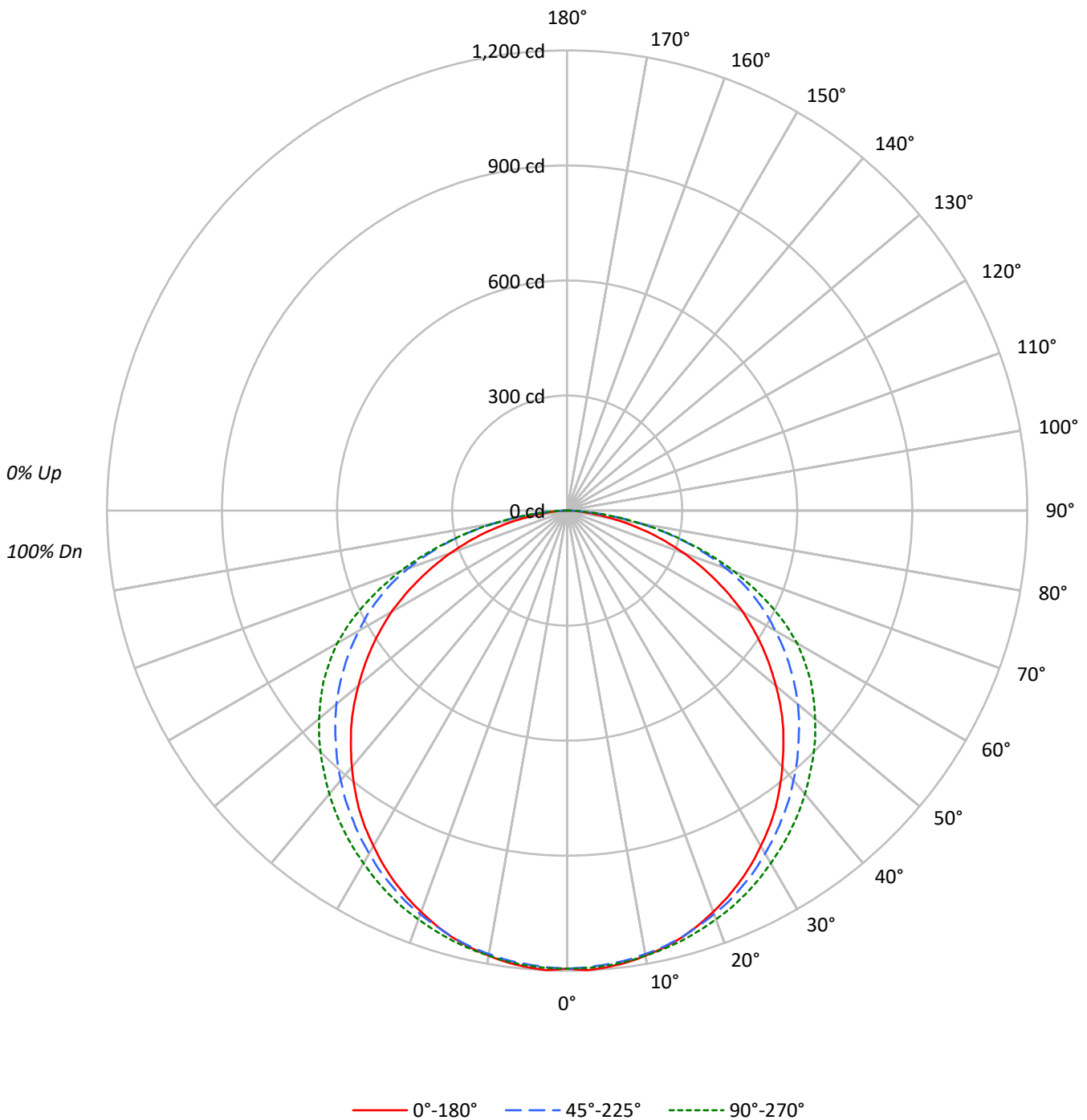
Input Watts (W): 30.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1607	1607	1607
5°	1615	1604	1609
10°	1610	1605	1610
15°	1606	1605	1616
20°	1594	1604	1624
25°	1584	1605	1637
30°	1569	1604	1650
35°	1556	1607	1670
40°	1534	1613	1695
45°	1515	1623	1727
50°	1487	1644	1767
55°	1459	1662	1819
60°	1424	1687	1865
65°	1355	1725	1863
70°	1271	1734	1823
75°	1137	1684	1706
80°	912	1507	1513
85°	644	1096	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	3.0
10°-20°	325.5	8.7
20°-30°	498.7	13.3
30°-40°	613.0	16.3
40°-50°	657.5	17.5
50°-60°	628.8	16.8
60°-70°	517.2	13.8
70°-80°	318.1	8.5
80°-90°	81.1	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°	937.3	25.0
0°-40°	1550.3	41.3
0°-60°	2836.6	75.6
0°-90°	3753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1195	1190	1188	1186	1191	114
15°	1153	1149	1152	1154	1160	325
25°	1067	1067	1081	1093	1103	492
35°	948	953	978	1003	1017	592
45°	796	811	853	891	907	614
55°	622	652	709	756	776	556
65°	426	473	542	574	585	422
75°	219	284	324	330	328	231
85°	42	68	71	68	67	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.6	1194.6	1194.6	1194.6	1194.6
2.5°	1199.6	1193.8	1192.1	1189.6	1193.8
5°	1195.4	1190.4	1187.9	1186.3	1191.3
7.5°	1188.8	1183.7	1182.9	1181.2	1186.3
10°	1178.7	1174.6	1174.6	1173.7	1178.7
12.5°	1167.1	1162.0	1164.5	1165.4	1170.4
15°	1152.9	1148.7	1152.0	1153.7	1160.4
17.5°	1134.5	1131.2	1136.2	1141.2	1147.9
20°	1113.6	1112.8	1120.3	1127.0	1134.5
22.5°	1091.9	1091.9	1102.8	1110.3	1120.3
25°	1066.9	1066.9	1081.1	1092.8	1102.8
27.5°	1040.2	1041.8	1058.5	1072.7	1083.6
30°	1010.1	1015.1	1032.6	1050.2	1061.9
32.5°	980.1	984.2	1006.8	1029.3	1040.2
35°	947.5	953.3	978.4	1003.4	1016.8
37.5°	910.8	919.1	950.0	977.6	991.7
40°	873.2	884.1	918.3	950.0	965.0
42.5°	834.8	849.8	887.4	920.0	935.8
45°	796.4	811.4	853.2	890.7	907.4
47.5°	754.7	773.0	820.6	859.0	877.4
50°	710.4	732.1	785.5	825.6	844.0
52.5°	667.0	692.0	748.0	793.1	810.6
55°	621.9	652.0	708.7	756.3	775.5
57.5°	575.2	609.4	669.5	717.9	734.6
60°	529.3	563.5	626.9	676.2	692.9
62.5°	477.5	519.2	586.9	632.8	642.0
65°	425.7	473.3	541.8	574.3	585.2
67.5°	374.8	426.6	495.0	518.4	525.1
70°	323.1	376.5	440.8	460.0	463.3
72.5°	270.5	330.6	384.8	395.7	397.4
75°	218.7	283.8	323.9	329.7	328.1
77.5°	167.8	232.1	260.5	263.0	263.8
80°	117.7	177.8	194.5	195.3	195.3
82.5°	76.0	123.6	131.9	130.2	131.9
85°	41.7	68.5	71.0	68.5	66.8
87.5°	13.4	20.0	21.7	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)