

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: P225581

Luminaire Tested: **22AC-LD5-38-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: P225581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-38-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3681.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

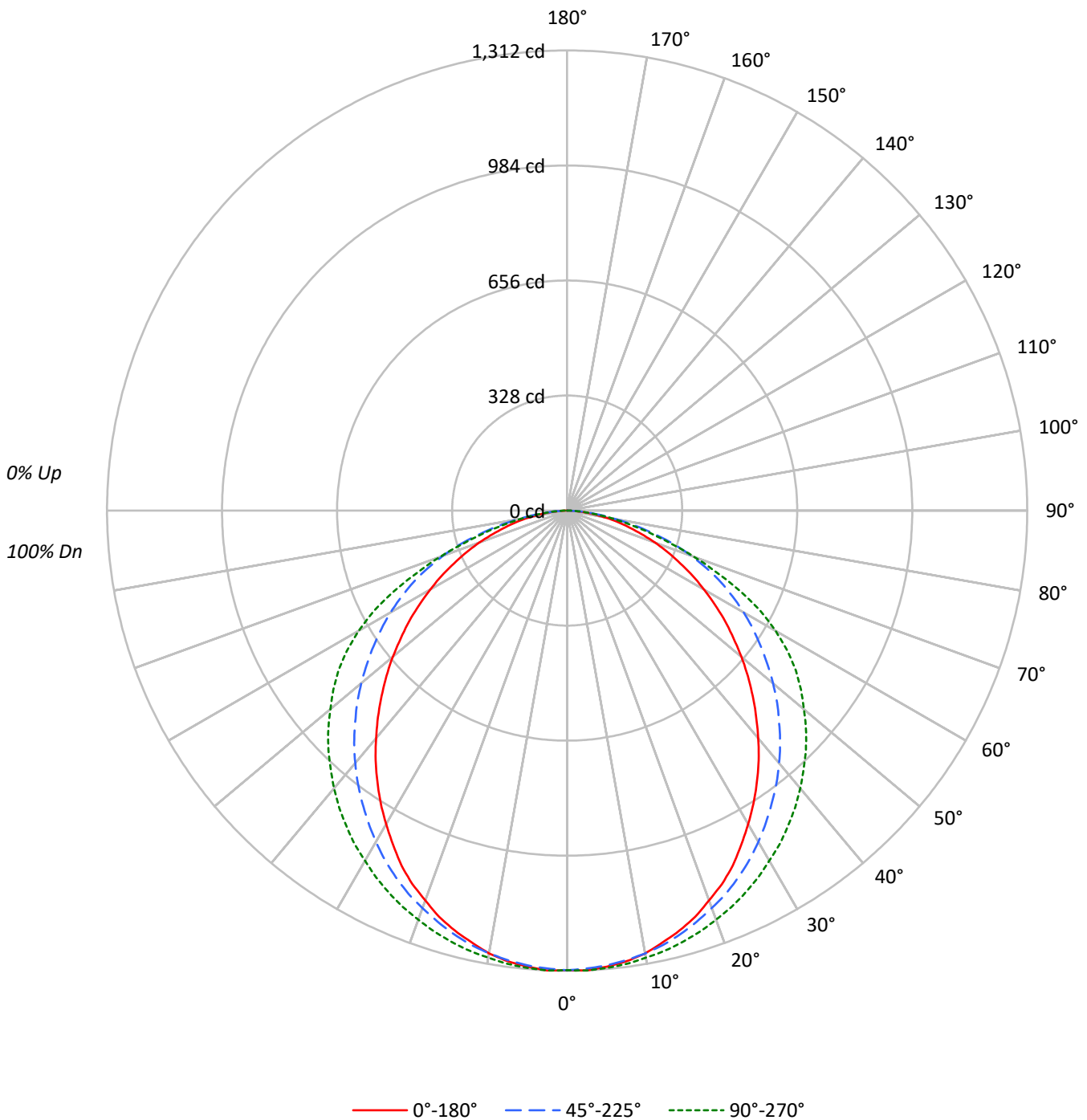
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3527	3527	3527
5°	3526	3516	3535
10°	3503	3503	3537
15°	3453	3483	3547
20°	3387	3453	3555
25°	3317	3428	3570
30°	3207	3389	3582
35°	3099	3344	3606
40°	2977	3302	3632
45°	2848	3253	3664
50°	2717	3207	3689
55°	2579	3162	3735
60°	2424	3130	3694
65°	2269	3082	3478
70°	2093	2958	3028
75°	1881	2655	2508
80°	1621	2199	2033
85°	1260	1479	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	3.4
10°-20°	353.6	9.6
20°-30°	532.8	14.5
30°-40°	637.9	17.3
40°-50°	659.8	17.9
50°-60°	602.6	16.4
60°-70°	461.1	12.5
70°-80°	250.7	6.8
80°-90°	58.6	1.6
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°	1010.3	27.4
0°-40°	1648.2	44.8
0°-60°	2910.6	79.1
0°-90°	3681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1305	1303	1302	1305	1309	124
15°	1240	1241	1250	1264	1273	349
25°	1117	1126	1154	1186	1202	513
35°	943	965	1018	1073	1098	590
45°	748	778	855	931	963	577
55°	550	592	674	762	796	491
65°	356	397	484	539	546	353
75°	181	223	255	250	241	193
85°	41	46	48	46	46	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.5	1310.5	1310.5	1310.5	1310.5
2.5°	1312.2	1308.7	1306.9	1310.5	1312.2
5°	1305.2	1303.4	1301.6	1305.2	1308.7
7.5°	1296.3	1292.7	1292.7	1299.8	1303.4
10°	1282.1	1278.6	1282.1	1291.0	1294.5
12.5°	1260.8	1262.6	1267.9	1280.3	1285.7
15°	1239.5	1241.3	1250.2	1264.4	1273.2
17.5°	1214.7	1218.3	1228.9	1250.2	1259.1
20°	1182.8	1188.1	1205.9	1230.7	1241.3
22.5°	1152.7	1158.0	1182.8	1211.2	1223.6
25°	1117.2	1126.1	1154.4	1186.3	1202.3
27.5°	1074.6	1090.6	1124.3	1161.5	1179.3
30°	1032.1	1049.8	1090.6	1134.9	1152.7
32.5°	989.5	1007.2	1055.1	1106.5	1127.8
35°	943.4	964.7	1017.9	1072.9	1097.7
37.5°	897.3	922.1	980.6	1040.9	1067.5
40°	847.6	876.0	939.9	1007.2	1033.8
42.5°	798.0	824.6	899.1	968.2	998.4
45°	748.3	778.5	854.7	931.0	962.9
47.5°	698.7	730.6	812.2	890.2	923.9
50°	649.0	684.5	766.1	849.4	881.3
52.5°	597.6	634.8	720.0	806.9	840.5
55°	549.7	592.3	673.9	762.5	796.2
57.5°	500.1	542.6	627.8	716.4	744.8
60°	450.4	489.4	581.6	663.2	686.3
62.5°	404.3	443.3	532.0	604.7	622.4
65°	356.4	397.2	484.1	539.1	546.2
67.5°	310.3	351.1	430.9	471.7	462.8
70°	266.0	306.8	375.9	390.1	384.8
72.5°	221.7	264.2	321.0	319.2	306.8
75°	180.9	223.4	255.4	250.0	241.2
77.5°	145.4	179.1	198.6	189.7	182.7
80°	104.6	136.5	141.9	134.8	131.2
82.5°	72.7	88.7	92.2	88.7	85.1
85°	40.8	46.1	47.9	46.1	46.1
87.5°	12.4	12.4	16.0	19.5	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)