

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: P225588

Luminaire Tested: **22AC-LD5-44-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: P225588  
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-LD5-44-UNV-L835-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER  
Light Source: (84)3500K CCT, 85 CRI LEDs  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4439.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

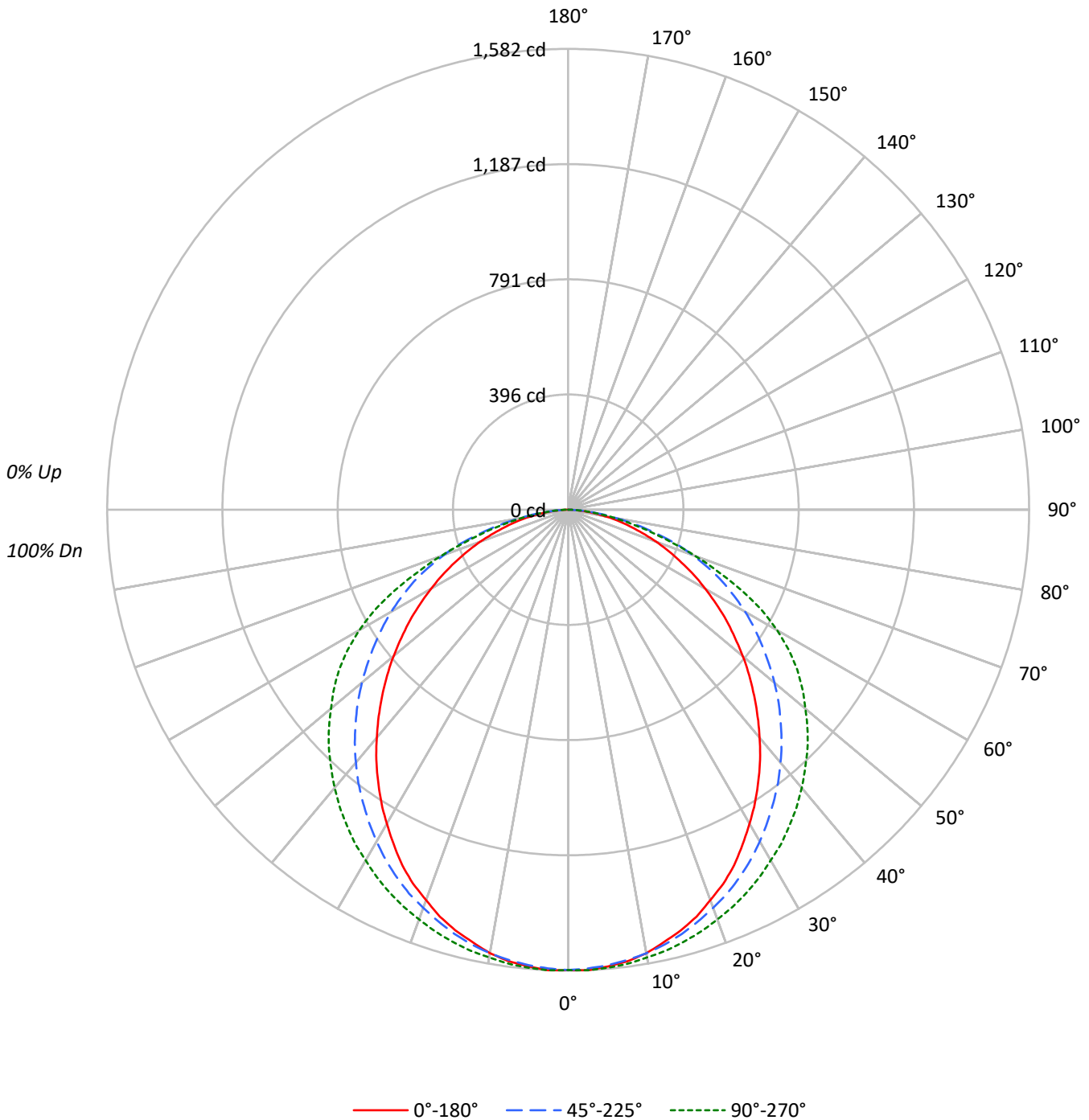
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4253	4253	4253
5°	4252	4240	4263
10°	4225	4225	4266
15°	4164	4200	4277
20°	4085	4164	4287
25°	4000	4133	4305
30°	3867	4087	4319
35°	3737	4032	4348
40°	3591	3981	4379
45°	3434	3922	4419
50°	3277	3867	4449
55°	3110	3812	4505
60°	2923	3775	4454
65°	2737	3717	4194
70°	2524	3567	3651
75°	2268	3201	3023
80°	1956	2651	2452
85°	1519	1782	1717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	3.4
10°-20°	426.4	9.6
20°-30°	642.5	14.5
30°-40°	769.3	17.3
40°-50°	795.6	17.9
50°-60°	726.7	16.4
60°-70°	556.1	12.5
70°-80°	302.3	6.8
80°-90°	70.7	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°	1218.3	27.4
0°-40°	1987.6	44.8
0°-60°	3509.9	79.1
0°-90°	4439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1574	1572	1570	1574	1578	149
15°	1495	1497	1508	1525	1535	421
25°	1347	1358	1392	1431	1450	619
35°	1138	1163	1228	1294	1324	711
45°	902	939	1031	1123	1161	696
55°	663	714	813	920	960	592
65°	430	479	584	650	659	426
75°	218	269	308	302	291	233
85°	49	56	58	56	56	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1582.5	1578.2	1576.0	1580.3	1582.5
5°	1573.9	1571.8	1569.6	1573.9	1578.2
7.5°	1563.2	1558.9	1558.9	1567.5	1571.8
10°	1546.1	1541.8	1546.1	1556.8	1561.1
12.5°	1520.4	1522.6	1529.0	1544.0	1550.4
15°	1494.8	1496.9	1507.6	1524.7	1535.4
17.5°	1464.8	1469.1	1481.9	1507.6	1518.3
20°	1426.4	1432.8	1454.2	1484.1	1496.9
22.5°	1390.0	1396.4	1426.4	1460.6	1475.5
25°	1347.2	1357.9	1392.1	1430.6	1449.9
27.5°	1295.9	1315.2	1355.8	1400.7	1422.1
30°	1244.6	1266.0	1315.2	1368.6	1390.0
32.5°	1193.3	1214.6	1272.4	1334.4	1360.1
35°	1137.7	1163.3	1227.5	1293.8	1323.7
37.5°	1082.1	1112.0	1182.6	1255.3	1287.4
40°	1022.2	1056.4	1133.4	1214.6	1246.7
42.5°	962.3	994.4	1084.2	1167.6	1204.0
45°	902.4	938.8	1030.7	1122.7	1161.2
47.5°	842.6	881.0	979.4	1073.5	1114.1
50°	782.7	825.4	923.8	1024.3	1062.8
52.5°	720.7	765.6	868.2	973.0	1013.6
55°	662.9	714.2	812.6	919.5	960.2
57.5°	603.0	654.4	757.0	863.9	898.2
60°	543.2	590.2	701.4	799.8	827.6
62.5°	487.6	534.6	641.5	729.2	750.6
65°	429.8	479.0	583.8	650.1	658.6
67.5°	374.2	423.4	519.6	568.8	558.1
70°	320.8	370.0	453.4	470.5	464.0
72.5°	267.3	318.6	387.1	384.9	370.0
75°	218.1	269.4	307.9	301.5	290.8
77.5°	175.4	216.0	239.5	228.8	220.3
80°	126.2	164.7	171.1	162.5	158.2
82.5°	87.7	106.9	111.2	106.9	102.6
85°	49.2	55.6	57.7	55.6	55.6
87.5°	15.0	15.0	19.2	23.5	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)