

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: P225619

Luminaire Tested: **22AC-LD5-20-RDP-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: P225619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35766)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22AC-LD5-20-RDP-UNV-L835-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS  
Light Source: (84)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1623.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

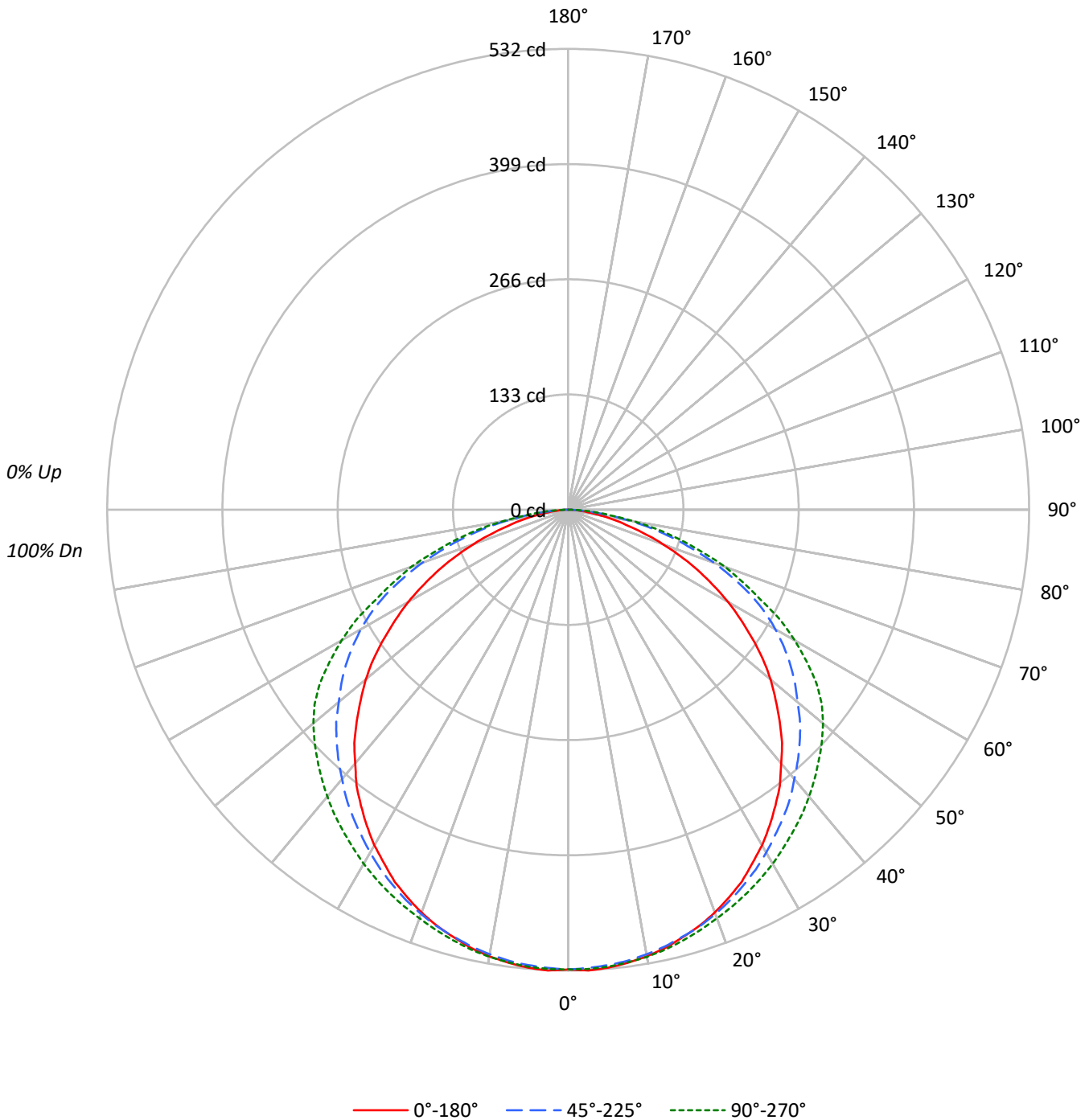
Input Watts (W): 16.73  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225619

CATALOG NUMBER: 22AC-LD5-20-RDP-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225619

CATALOG NUMBER: 22AC-LD5-20-RDP-UNV-L835-CD1-U

**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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1428	1428	1428
5°	1434	1425	1430
10°	1430	1424	1432
15°	1423	1422	1433
20°	1417	1422	1437
25°	1407	1421	1450
30°	1390	1420	1467
35°	1370	1423	1487
40°	1343	1427	1519
45°	1313	1439	1557
50°	1276	1447	1607
55°	1217	1470	1641
60°	1147	1486	1625
65°	1049	1480	1556
70°	914	1409	1513
75°	748	1283	1389
80°	584	1086	1189
85°	408	722	852



TEST NUMBER: P225619

CATALOG NUMBER: 22AC-LD5-20-RDP-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	3.1
10°-20°	144.5	8.9
20°-30°	221.2	13.6
30°-40°	271.8	16.7
40°-50°	291.5	18.0
50°-60°	276.3	17.0
60°-70°	216.0	13.3
70°-80°	122.8	7.6
80°-90°	28.7	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°	416.0	25.6
0°-40°	687.8	42.4
0°-60°	1255.6	77.4
0°-90°	1623.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	531	530	528	529	530	50
15°	511	510	510	513	514	144
25°	474	475	479	485	488	218
35°	417	422	433	447	453	261
45°	345	355	378	401	409	266
55°	259	282	313	341	350	232
65°	165	195	232	242	244	163
75°	72	107	123	132	134	78
85°	13	19	23	27	28	17
90°	0	0	0	0	0	



TEST NUMBER: P225619

CATALOG NUMBER: 22AC-LD5-20-RDP-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	530.7	530.7	530.7	530.7	530.7
2.5°	532.5	530.7	529.5	530.1	530.7
5°	530.7	529.5	527.7	528.9	529.5
7.5°	527.7	526.5	525.3	526.5	527.1
10°	523.5	522.3	521.1	522.9	524.1
12.5°	518.1	516.9	516.3	518.7	519.9
15°	510.9	510.3	510.3	512.7	514.5
17.5°	503.7	503.1	504.3	507.3	508.5
20°	494.8	494.8	496.6	500.2	501.9
22.5°	484.6	485.2	488.2	493.0	495.4
25°	473.8	475.0	478.6	485.2	488.2
27.5°	460.0	462.4	468.4	476.2	480.4
30°	447.4	449.8	457.0	467.2	472.0
32.5°	432.5	436.7	445.0	457.0	462.4
35°	416.9	421.7	433.1	446.8	452.8
37.5°	401.3	406.1	420.5	436.1	443.2
40°	382.2	390.5	406.1	424.7	432.5
42.5°	365.4	373.2	392.3	412.7	421.1
45°	345.0	355.2	378.0	400.7	409.1
47.5°	324.6	337.2	363.0	387.5	397.1
50°	304.9	318.1	345.6	373.2	383.9
52.5°	283.3	299.5	330.0	358.8	369.0
55°	259.4	282.1	313.3	341.4	349.8
57.5°	236.0	260.0	295.3	322.3	326.4
60°	213.2	237.8	276.1	297.1	301.9
62.5°	188.1	216.2	255.8	272.5	276.1
65°	164.7	194.7	232.4	242.0	244.4
67.5°	140.2	171.9	205.5	215.0	217.4
70°	116.2	150.3	179.1	187.5	192.3
72.5°	93.4	128.2	150.3	159.3	161.7
75°	71.9	107.2	123.4	132.4	133.6
77.5°	54.5	83.9	97.6	104.8	106.0
80°	37.7	58.1	70.1	75.5	76.7
82.5°	24.0	37.1	44.9	49.1	49.1
85°	13.2	19.2	23.4	27.0	27.6
87.5°	4.8	6.0	7.8	12.0	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)