

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: P225617

Luminaire Tested: **22AC-LD5-38-RDP-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: P225617  
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-LD5-38-RDP-UNV-L830-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS  
Light Source: (84)3000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2878.1 lumens  
Efficiency: N/A  
Efficacy: 83.9 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

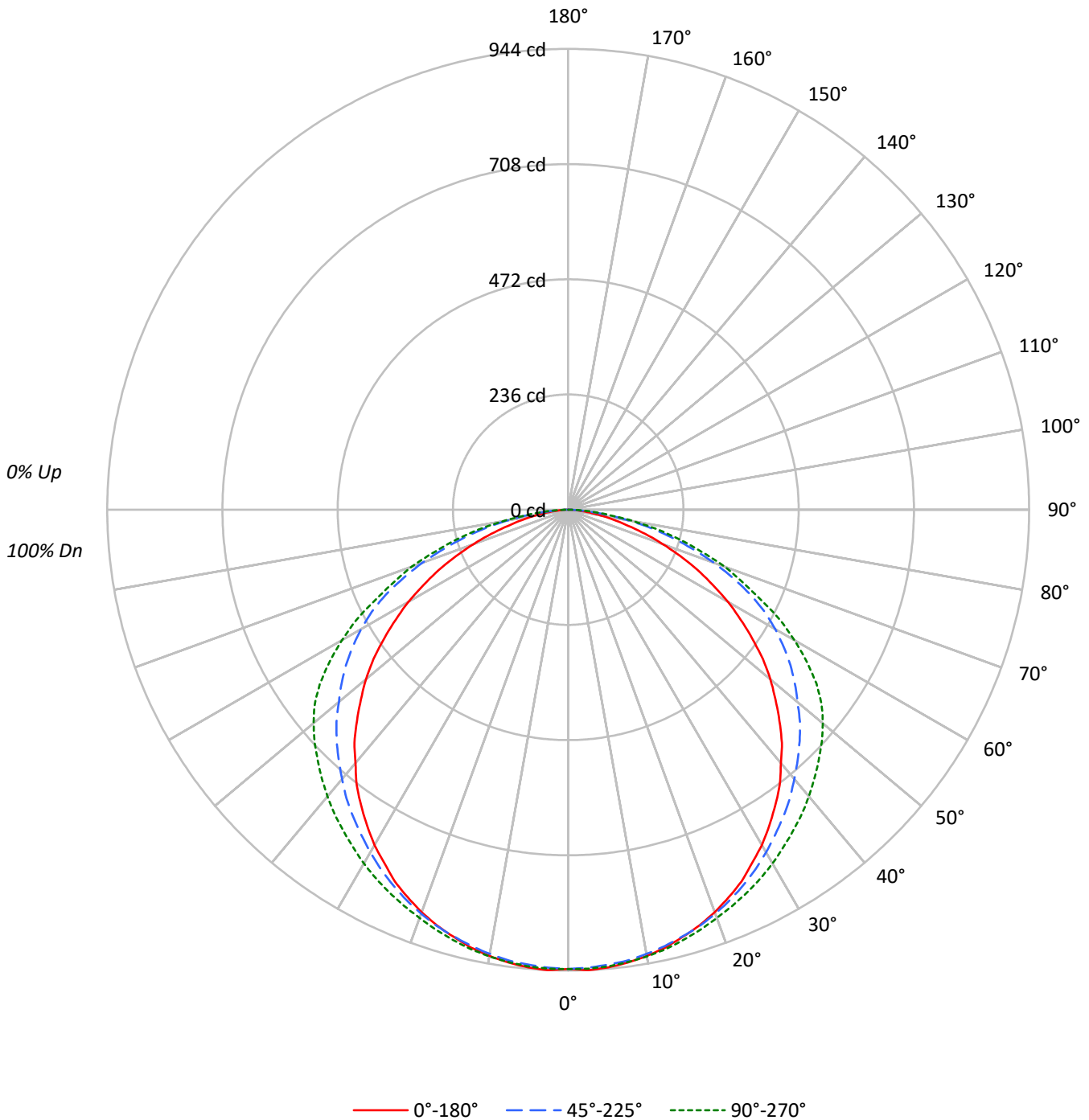
Input Watts (W): 34.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225617

CATALOG NUMBER: 22AC-LD5-38-RDP-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225617

CATALOG NUMBER: 22AC-LD5-38-RDP-UNV-L830-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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42					42			
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

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

	0°	45°	90°
0°	2532	2532	2532
5°	2542	2528	2536
10°	2537	2525	2539
15°	2524	2521	2542
20°	2512	2521	2549
25°	2494	2520	2570
30°	2465	2518	2600
35°	2428	2523	2638
40°	2380	2530	2694
45°	2328	2551	2761
50°	2263	2565	2850
55°	2158	2606	2910
60°	2035	2635	2881
65°	1860	2624	2759
70°	1621	2499	2682
75°	1325	2275	2462
80°	1037	1926	2106
85°	722	1278	1510



TEST NUMBER: P225617

CATALOG NUMBER: 22AC-LD5-38-RDP-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	3.1
10°-20°	256.3	8.9
20°-30°	392.2	13.6
30°-40°	482.0	16.7
40°-50°	516.9	18.0
50°-60°	489.9	17.0
60°-70°	382.9	13.3
70°-80°	217.8	7.6
80°-90°	51.0	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°	737.7	25.6
0°-40°	1219.6	42.4
0°-60°	2226.4	77.4
0°-90°	2878.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	939	936	938	939	89
15°	906	905	905	909	912	256
25°	840	842	849	860	866	387
35°	739	748	768	792	803	462
45°	612	630	670	710	725	472
55°	460	500	556	605	620	411
65°	292	345	412	429	433	288
75°	127	190	219	235	237	139
85°	23	34	41	48	49	29
90°	0	0	0	0	0	



TEST NUMBER: P225617

CATALOG NUMBER: 22AC-LD5-38-RDP-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	941.0	941.0	941.0	941.0	941.0
2.5°	944.2	941.0	938.9	939.9	941.0
5°	941.0	938.9	935.7	937.8	938.9
7.5°	935.7	933.6	931.4	933.6	934.6
10°	928.3	926.1	924.0	927.2	929.3
12.5°	918.7	916.6	915.5	919.8	921.9
15°	906.0	904.9	904.9	909.1	912.3
17.5°	893.2	892.1	894.3	899.6	901.7
20°	877.3	877.3	880.5	886.8	890.0
22.5°	859.2	860.3	865.6	874.1	878.3
25°	840.1	842.2	848.6	860.3	865.6
27.5°	815.7	819.9	830.5	844.4	851.8
30°	793.4	797.6	810.4	828.4	836.9
32.5°	766.8	774.3	789.1	810.4	819.9
35°	739.2	747.7	767.9	792.3	802.9
37.5°	711.6	720.1	745.6	773.2	785.9
40°	677.6	692.5	720.1	753.0	766.8
42.5°	647.9	661.7	695.7	731.8	746.6
45°	611.8	629.8	670.2	710.5	725.4
47.5°	575.6	598.0	643.6	687.2	704.2
50°	540.6	564.0	612.8	661.7	680.8
52.5°	502.4	531.0	585.2	636.2	654.2
55°	459.9	500.2	555.5	605.4	620.3
57.5°	418.5	460.9	523.6	571.4	578.8
60°	378.1	421.6	489.6	526.8	535.3
62.5°	333.5	383.4	453.5	483.2	489.6
65°	292.1	345.2	412.1	429.1	433.3
67.5°	248.5	304.8	364.3	381.3	385.5
70°	206.0	266.6	317.6	332.4	340.9
72.5°	165.7	227.3	266.6	282.5	286.8
75°	127.4	190.1	218.8	234.7	236.8
77.5°	96.6	148.7	173.1	185.9	188.0
80°	66.9	103.0	124.3	133.8	135.9
82.5°	42.5	65.8	79.7	87.1	87.1
85°	23.4	34.0	41.4	47.8	48.9
87.5°	8.5	10.6	13.8	21.2	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)