

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: P225611

Luminaire Tested: **22AC-LD5-38-SQP-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: P225611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22AC-LD5-38-SQP-UNV-L840-CD1-U  
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS  
Light Source: (84)4000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2847.1 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

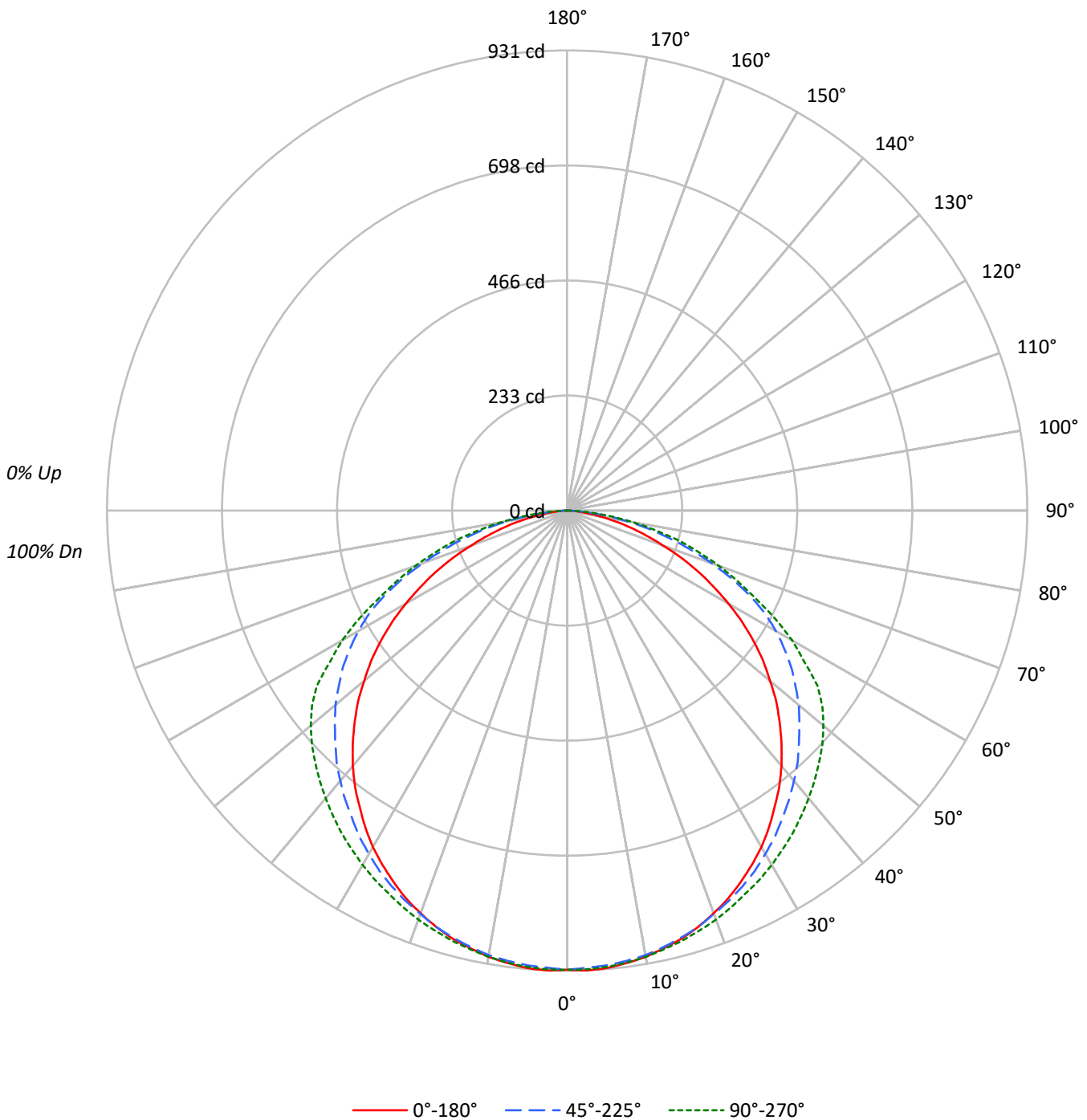
Input Watts (W): 34.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225611

CATALOG NUMBER: 22AC-LD5-38-SQP-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225611

CATALOG NUMBER: 22AC-LD5-38-SQP-UNV-L840-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	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	53	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	35	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°	2500	2500	2500
5°	2509	2494	2504
10°	2505	2496	2505
15°	2497	2491	2510
20°	2483	2486	2522
25°	2464	2491	2538
30°	2442	2491	2572
35°	2405	2493	2615
40°	2369	2508	2670
45°	2314	2524	2743
50°	2244	2560	2833
55°	2161	2599	2900
60°	2030	2624	2830
65°	1864	2603	2674
70°	1622	2445	2570
75°	1382	2201	2424
80°	1048	1884	2094
85°	695	1250	1460



TEST NUMBER: P225611

CATALOG NUMBER: 22AC-LD5-38-SQP-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	3.1
10°-20°	253.1	8.9
20°-30°	387.8	13.6
30°-40°	477.3	16.8
40°-50°	513.1	18.0
50°-60°	487.1	17.1
60°-70°	377.5	13.3
70°-80°	213.1	7.5
80°-90°	50.3	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°	728.9	25.6
0°-40°	1206.2	42.4
0°-60°	2206.4	77.5
0°-90°	2847.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	929	926	923	924	927	88
15°	896	895	894	899	901	253
25°	830	832	839	849	855	383
35°	732	741	759	785	796	458
45°	608	626	663	705	721	469
55°	461	498	554	601	618	411
65°	293	342	409	417	420	289
75°	133	188	212	225	233	141
85°	22	33	40	46	47	29
90°	0	0	0	0	0	



TEST NUMBER: P225611

CATALOG NUMBER: 22AC-LD5-38-SQP-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	929.0	929.0	929.0	929.0	929.0
2.5°	931.3	929.0	925.6	927.9	929.0
5°	929.0	925.6	923.4	924.5	926.8
7.5°	923.4	921.1	918.9	921.1	922.3
10°	916.6	914.4	913.3	915.5	916.6
12.5°	906.5	905.4	904.2	907.6	908.7
15°	896.4	895.2	894.1	898.6	900.9
17.5°	882.8	881.7	882.8	887.4	890.7
20°	867.1	867.1	868.2	876.1	880.6
22.5°	850.2	851.3	854.7	862.6	868.2
25°	829.9	832.2	838.9	849.1	854.7
27.5°	808.5	811.9	822.0	834.4	842.3
30°	786.0	790.5	801.8	818.7	827.7
32.5°	760.1	765.7	782.6	802.9	811.9
35°	732.0	741.0	759.0	784.9	796.1
37.5°	704.9	713.9	737.6	765.7	778.1
40°	674.5	685.8	713.9	745.5	760.1
42.5°	641.9	656.5	690.3	726.3	741.0
45°	608.1	626.1	663.3	704.9	720.7
47.5°	574.3	593.4	637.4	682.4	700.4
50°	536.0	560.8	611.5	657.6	676.8
52.5°	500.0	528.1	582.2	630.6	650.9
55°	460.6	497.7	554.0	601.3	618.2
57.5°	420.0	461.7	521.4	564.2	568.7
60°	377.2	421.2	487.6	518.0	525.9
62.5°	334.4	382.9	451.6	474.1	475.2
65°	292.8	342.3	408.8	416.7	420.0
67.5°	250.0	305.2	360.3	366.0	372.7
70°	206.1	266.9	310.8	322.1	326.6
72.5°	167.8	227.5	260.1	273.6	278.1
75°	132.9	188.1	211.7	225.2	233.1
77.5°	98.0	145.3	166.7	177.9	181.3
80°	67.6	102.5	121.6	130.6	135.1
82.5°	42.8	65.3	77.7	86.7	89.0
85°	22.5	32.7	40.5	46.2	47.3
87.5°	9.0	10.1	13.5	22.5	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)