

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: P225570

Luminaire Tested: **14AC-LD5-39-SQP-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: P225570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14AC-LD5-39-SQP-UNV-L835-CD1-U  
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS  
Light Source: (84)3500K CCT, 85 CRI LEDs  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2657.8 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')  
CIE Type: Direct

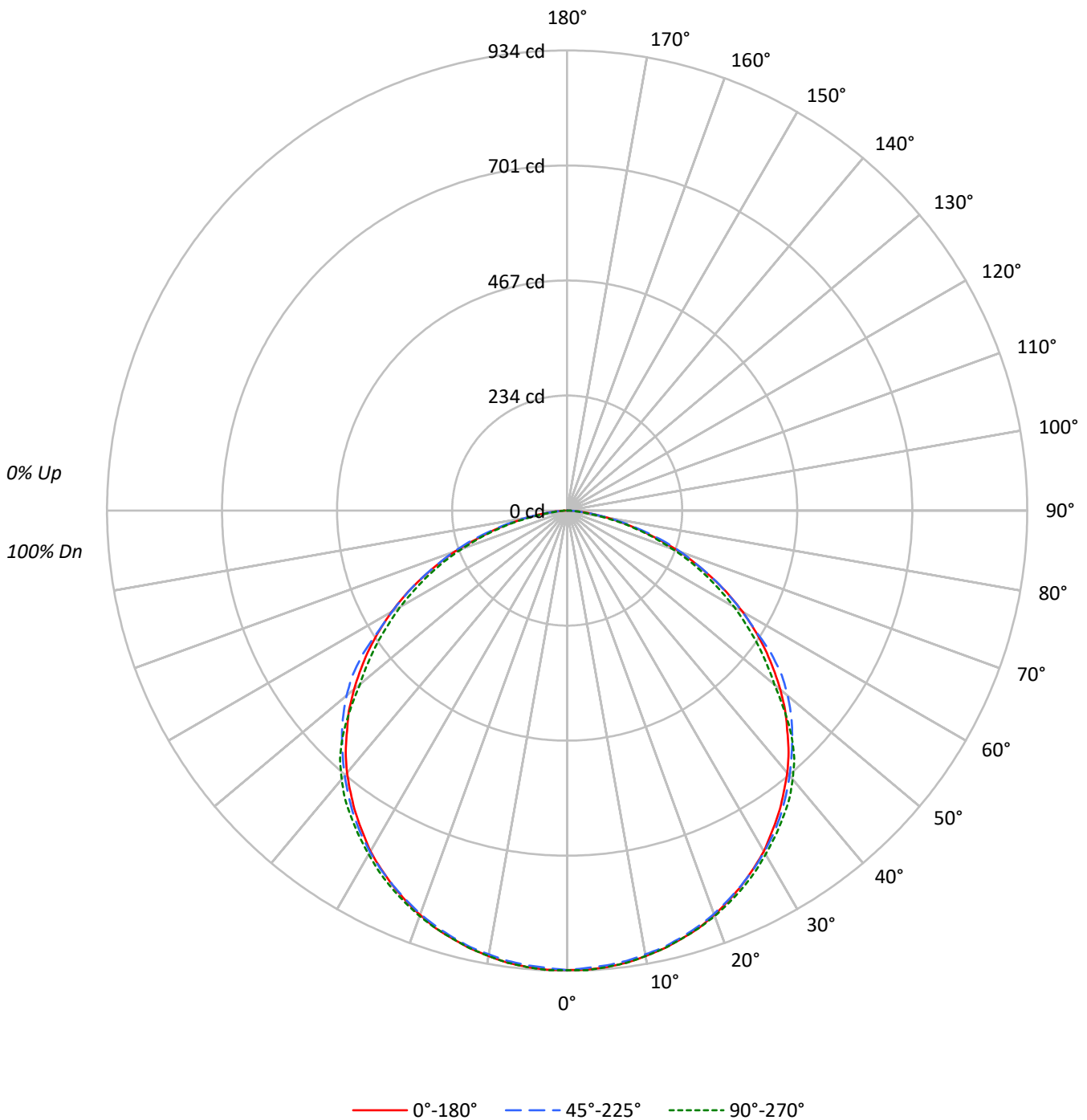
Input Watts (W): 36  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225570

CATALOG NUMBER: 14AC-LD5-39-SQP-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225570

CATALOG NUMBER: 14AC-LD5-39-SQP-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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2619	2619	2619
5°	2621	2611	2621
10°	2618	2608	2618
15°	2615	2607	2615
20°	2609	2604	2617
25°	2599	2597	2616
30°	2589	2595	2612
35°	2568	2589	2614
40°	2548	2574	2610
45°	2510	2567	2556
50°	2466	2552	2399
55°	2402	2472	2309
60°	2310	2305	2199
65°	2165	2177	2058
70°	1988	2011	1863
75°	1670	1748	1592
80°	1324	1353	1121
85°	870	754	638



TEST NUMBER: P225570

CATALOG NUMBER: 14AC-LD5-39-SQP-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	3.3
10°-20°	253.9	9.6
20°-30°	387.6	14.6
30°-40°	472.9	17.8
40°-50°	494.6	18.6
50°-60°	437.8	16.5
60°-70°	322.4	12.1
70°-80°	166.9	6.3
80°-90°	33.2	1.3
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°	729.8	27.5
0°-40°	1202.8	45.3
0°-60°	2135.2	80.3
0°-90°	2657.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	930	930	926	930	930	88
15°	899	899	897	900	899	254
25°	839	839	838	844	844	387
35°	749	751	755	762	762	468
45°	632	637	646	652	644	488
55°	491	500	505	479	472	438
65°	326	346	328	315	310	323
75°	154	165	161	151	147	164
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



TEST NUMBER: P225570

CATALOG NUMBER: 14AC-LD5-39-SQP-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	932.7	932.7	932.7	932.7	932.7
2.5°	932.7	932.7	929.1	932.7	933.6
5°	930.0	930.0	926.4	930.0	930.0
7.5°	925.5	924.6	921.9	925.5	925.5
10°	918.3	918.3	914.7	919.2	918.3
12.5°	910.2	909.3	907.5	911.1	910.2
15°	899.4	899.4	896.7	900.3	899.4
17.5°	888.6	887.7	885.0	888.6	888.6
20°	873.2	872.3	871.4	875.0	875.9
22.5°	857.0	856.1	855.2	860.6	860.6
25°	839.0	839.0	838.1	843.5	844.4
27.5°	819.2	819.2	820.1	827.3	826.4
30°	798.5	798.5	800.3	805.7	805.7
32.5°	773.3	775.1	778.7	785.0	785.0
35°	749.0	750.8	755.3	762.5	762.5
37.5°	722.0	724.7	729.2	738.2	740.0
40°	695.0	696.8	702.2	712.1	712.1
42.5°	665.3	667.1	674.3	684.2	682.4
45°	632.0	637.4	646.4	651.8	643.7
47.5°	600.5	604.1	616.7	610.4	596.9
50°	564.5	571.7	584.3	561.8	549.2
52.5°	527.5	535.7	549.2	517.6	510.4
55°	490.6	500.5	505.0	478.9	471.7
57.5°	451.0	461.8	452.8	437.5	430.3
60°	411.4	424.0	410.5	396.1	391.6
62.5°	370.0	384.4	369.1	356.5	350.2
65°	325.9	345.7	327.7	315.1	309.7
67.5°	282.7	303.4	284.5	273.7	270.1
70°	242.2	253.9	244.9	234.1	226.9
72.5°	193.6	205.3	203.5	191.8	187.3
75°	153.9	164.7	161.1	151.2	146.7
77.5°	114.3	126.0	122.4	110.7	108.9
80°	81.9	90.0	83.7	72.9	69.3
82.5°	51.3	57.6	49.5	41.4	39.6
85°	27.0	28.8	23.4	20.7	19.8
87.5°	9.0	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)