

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: P225573

Luminaire Tested: **14AC-LD5-44-SQP-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: P225573  
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-LD5-44-SQP-UNV-L830-CD1-U  
Description: METALUX Accord 1X4 LED TROFFER WITH SQP LENS  
Light Source: (84)3000K CCT, 85 CRI LEDs  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2925.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

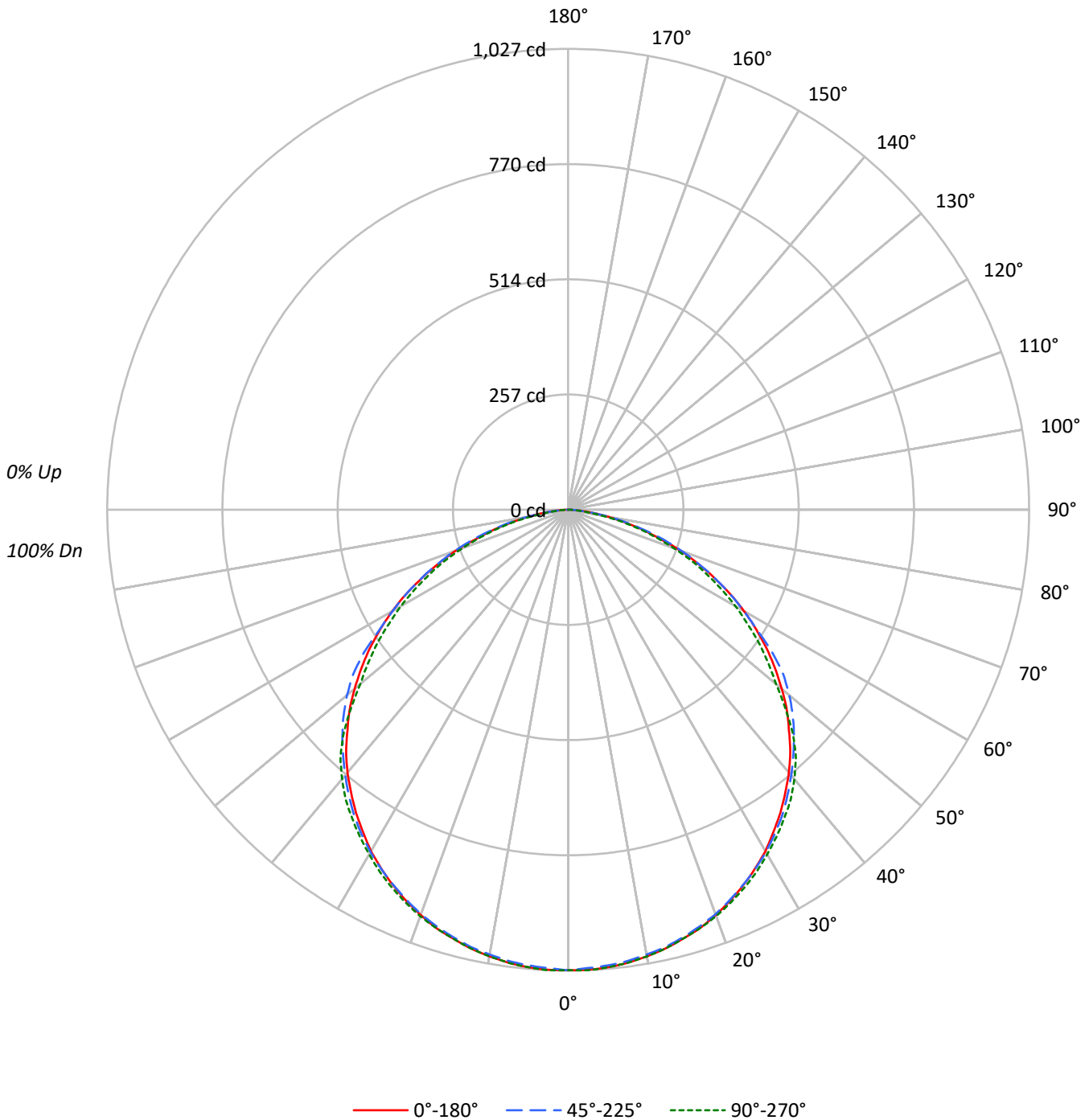
Input Watts (W): 41.12  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2882	2882	2882
5°	2885	2874	2885
10°	2882	2870	2882
15°	2877	2869	2877
20°	2872	2866	2881
25°	2861	2858	2879
30°	2849	2856	2875
35°	2826	2850	2877
40°	2804	2833	2873
45°	2762	2825	2813
50°	2714	2809	2640
55°	2644	2721	2542
60°	2543	2537	2420
65°	2383	2396	2264
70°	2188	2213	2050
75°	1838	1924	1752
80°	1459	1489	1234
85°	957	831	702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	279.4	9.6
20°-30°	426.6	14.6
30°-40°	520.5	17.8
40°-50°	544.3	18.6
50°-60°	481.9	16.5
60°-70°	354.8	12.1
70°-80°	183.7	6.3
80°-90°	36.6	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°	803.2	27.5
0°-40°	1323.7	45.3
0°-60°	2349.9	80.3
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1024	1024	1020	1024	1024	97
15°	990	990	987	991	990	280
25°	923	923	922	928	929	426
35°	824	826	831	839	839	516
45°	696	702	711	717	708	537
55°	540	551	556	527	519	482
65°	359	380	361	347	341	355
75°	169	181	177	166	162	181
85°	30	32	26	23	22	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1026.4	1026.4	1026.4	1026.4	1026.4
2.5°	1026.4	1026.4	1022.5	1026.4	1027.4
5°	1023.5	1023.5	1019.5	1023.5	1023.5
7.5°	1018.5	1017.5	1014.5	1018.5	1018.5
10°	1010.6	1010.6	1006.6	1011.6	1010.6
12.5°	1001.7	1000.7	998.7	1002.7	1001.7
15°	989.8	989.8	986.8	990.8	989.8
17.5°	977.9	976.9	973.9	977.9	977.9
20°	961.0	960.1	959.1	963.0	964.0
22.5°	943.2	942.2	941.2	947.2	947.2
25°	923.4	923.4	922.4	928.4	929.3
27.5°	901.6	901.6	902.6	910.5	909.5
30°	878.8	878.8	880.8	886.7	886.7
32.5°	851.1	853.1	857.0	864.0	864.0
35°	824.3	826.3	831.3	839.2	839.2
37.5°	794.6	797.6	802.5	812.4	814.4
40°	764.9	766.9	772.8	783.7	783.7
42.5°	732.2	734.2	742.1	753.0	751.0
45°	695.5	701.5	711.4	717.3	708.4
47.5°	660.8	664.8	678.7	671.7	656.9
50°	621.2	629.1	643.0	618.2	604.4
52.5°	580.6	589.5	604.4	569.7	561.8
55°	540.0	550.9	555.8	527.1	519.2
57.5°	496.4	508.3	498.4	481.5	473.6
60°	452.8	466.7	451.8	435.9	431.0
62.5°	407.2	423.1	406.2	392.3	385.4
65°	358.7	380.5	360.6	346.8	340.8
67.5°	311.1	333.9	313.1	301.2	297.2
70°	266.5	279.4	269.5	257.6	249.7
72.5°	213.0	225.9	223.9	211.0	206.1
75°	169.4	181.3	177.3	166.4	161.5
77.5°	125.8	138.7	134.7	121.9	119.9
80°	90.2	99.1	92.1	80.3	76.3
82.5°	56.5	63.4	54.5	45.6	43.6
85°	29.7	31.7	25.8	22.8	21.8
87.5°	9.9	10.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)