

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: P225533

Luminaire Tested: **14AC-LD5-25-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: P225533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14AC-LD5-25-RDP-UNV-L830-CD1-U  
Description: METALUX Accord 1X4 LED TROFFER WITH RDP 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: 1731.3 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

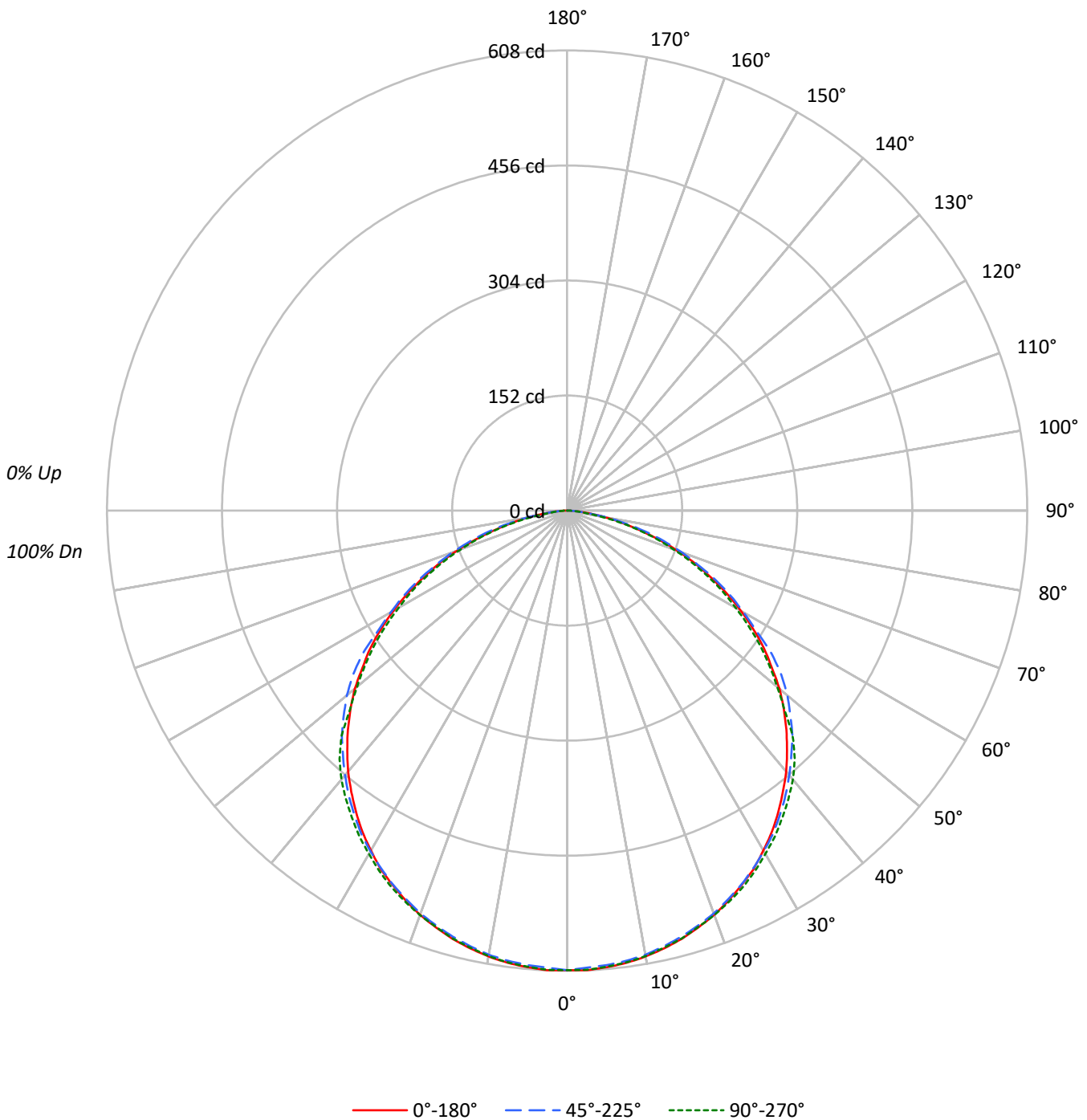
Input Watts (W): 20.46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1705	1705	1705
5°	1707	1699	1705
10°	1706	1699	1704
15°	1703	1695	1701
20°	1698	1693	1700
25°	1691	1689	1701
30°	1681	1685	1698
35°	1667	1681	1699
40°	1651	1673	1700
45°	1627	1672	1674
50°	1600	1659	1583
55°	1555	1616	1525
60°	1489	1512	1445
65°	1395	1432	1357
70°	1269	1320	1227
75°	1059	1158	1040
80°	839	885	721
85°	544	474	419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	3.3
10°-20°	165.1	9.5
20°-30°	252.0	14.6
30°-40°	307.3	17.7
40°-50°	321.7	18.6
50°-60°	286.2	16.5
60°-70°	211.2	12.2
70°-80°	109.1	6.3
80°-90°	21.2	1.2
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°	474.6	27.4
0°-40°	781.9	45.2
0°-60°	1389.9	80.3
0°-90°	1731.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	606	605	603	605	605	58
15°	586	585	583	585	585	165
25°	546	546	545	549	549	252
35°	486	487	490	496	496	304
45°	410	412	421	425	422	316
55°	318	324	330	316	312	283
65°	210	225	216	208	204	208
75°	98	108	107	98	96	106
85°	17	19	15	14	13	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	607.2	607.2	607.2	607.2	607.2
2.5°	607.8	607.2	604.4	607.2	607.2
5°	605.5	604.9	602.7	604.9	604.9
7.5°	602.7	602.1	599.9	602.1	602.1
10°	598.2	597.6	595.9	598.2	597.6
12.5°	592.5	592.5	589.7	592.5	591.4
15°	585.7	585.2	582.9	585.2	585.2
17.5°	577.3	576.7	575.0	577.8	576.7
20°	568.3	567.7	566.6	569.4	568.8
22.5°	557.5	557.5	555.8	559.2	559.2
25°	545.7	545.7	545.1	549.1	549.1
27.5°	533.8	532.7	532.7	536.7	537.2
30°	518.6	518.6	519.7	524.2	523.7
32.5°	503.4	503.9	506.2	510.1	510.7
35°	486.4	487.0	490.4	496.0	495.5
37.5°	468.4	470.1	474.0	480.2	480.2
40°	450.3	451.4	456.5	463.3	463.9
42.5°	430.0	432.8	438.5	446.4	445.2
45°	409.7	412.5	421.0	424.9	421.5
47.5°	388.2	391.6	400.1	400.7	389.4
50°	366.2	370.2	379.8	368.5	362.3
52.5°	340.8	348.2	356.6	340.8	336.9
55°	317.7	324.5	330.1	316.0	311.5
57.5°	291.7	300.8	296.8	290.1	284.4
60°	265.2	274.8	269.2	262.4	257.3
62.5°	238.1	248.9	243.2	236.4	231.9
65°	209.9	224.6	215.6	208.2	204.3
67.5°	183.4	197.5	186.8	181.1	177.2
70°	154.6	166.5	160.8	153.5	149.5
72.5°	126.4	135.4	133.7	125.8	123.0
75°	97.6	107.8	106.7	98.2	95.9
77.5°	73.4	83.0	79.6	72.8	70.0
80°	51.9	58.1	54.7	46.8	44.6
82.5°	31.6	36.7	31.0	26.5	24.3
85°	16.9	18.6	14.7	13.5	13.0
87.5°	6.2	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)