

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: P225579

Luminaire Tested: **22AC-LD5-27-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: P225579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-27-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2599.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

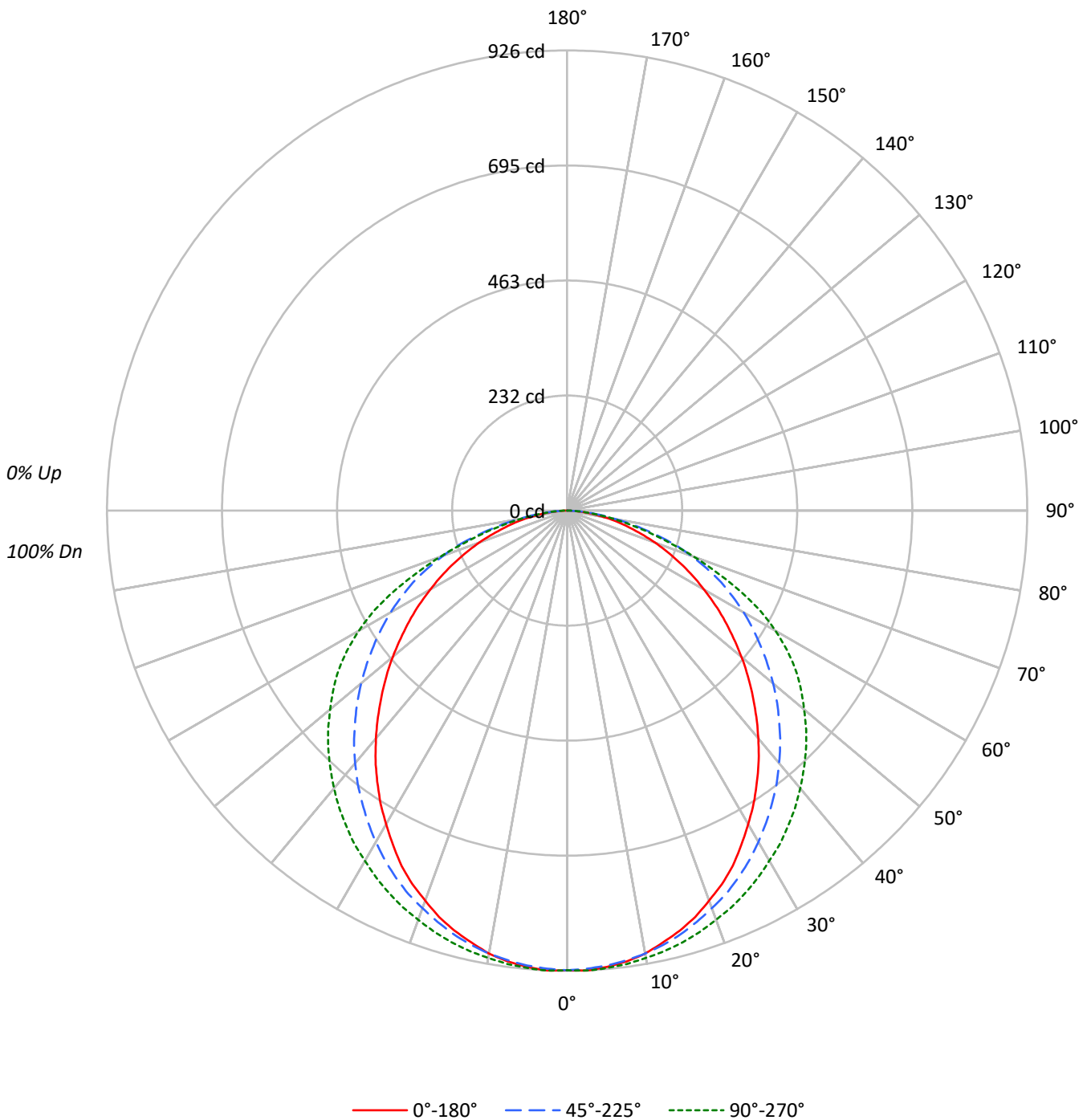
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2490	2490	2490
5°	2489	2482	2496
10°	2473	2473	2497
15°	2438	2459	2505
20°	2391	2438	2510
25°	2342	2420	2521
30°	2264	2393	2529
35°	2188	2361	2546
40°	2102	2331	2564
45°	2011	2297	2587
50°	1918	2264	2605
55°	1821	2232	2638
60°	1711	2210	2608
65°	1603	2176	2455
70°	1478	2088	2138
75°	1328	1875	1771
80°	1145	1553	1435
85°	889	1044	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.4
10°-20°	249.6	9.6
20°-30°	376.2	14.5
30°-40°	450.4	17.3
40°-50°	465.8	17.9
50°-60°	425.5	16.4
60°-70°	325.6	12.5
70°-80°	177.0	6.8
80°-90°	41.4	1.6
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°	713.3	27.4
0°-40°	1163.7	44.8
0°-60°	2055.0	79.1
0°-90°	2599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	922	920	919	922	924	87
15°	875	876	883	893	899	247
25°	789	795	815	838	849	362
35°	666	681	719	758	775	416
45°	528	550	604	657	680	408
55°	388	418	476	538	562	347
65°	252	280	342	381	386	250
75°	128	158	180	176	170	137
85°	29	33	34	33	33	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.2	925.2	925.2	925.2	925.2
2.5°	926.5	924.0	922.7	925.2	926.5
5°	921.5	920.2	919.0	921.5	924.0
7.5°	915.2	912.7	912.7	917.7	920.2
10°	905.2	902.7	905.2	911.5	914.0
12.5°	890.2	891.4	895.2	904.0	907.7
15°	875.2	876.4	882.7	892.7	899.0
17.5°	857.6	860.1	867.7	882.7	888.9
20°	835.1	838.9	851.4	868.9	876.4
22.5°	813.8	817.6	835.1	855.1	863.9
25°	788.8	795.0	815.1	837.6	848.9
27.5°	758.7	770.0	793.8	820.1	832.6
30°	728.7	741.2	770.0	801.3	813.8
32.5°	698.6	711.1	745.0	781.3	796.3
35°	666.1	681.1	718.7	757.5	775.0
37.5°	633.5	651.1	692.4	734.9	753.7
40°	598.5	618.5	663.6	711.1	729.9
42.5°	563.4	582.2	634.8	683.6	704.9
45°	528.4	549.6	603.5	657.3	679.8
47.5°	493.3	515.8	573.4	628.5	652.3
50°	458.2	483.3	540.9	599.7	622.3
52.5°	421.9	448.2	508.3	569.7	593.5
55°	388.1	418.2	475.8	538.4	562.2
57.5°	353.1	383.1	443.2	505.8	525.8
60°	318.0	345.6	410.7	468.3	484.5
62.5°	285.5	313.0	375.6	426.9	439.5
65°	251.7	280.5	341.8	380.6	385.6
67.5°	219.1	247.9	304.2	333.0	326.8
70°	187.8	216.6	265.4	275.4	271.7
72.5°	156.5	186.6	226.6	225.4	216.6
75°	127.7	157.8	180.3	176.5	170.3
77.5°	102.7	126.5	140.2	134.0	129.0
80°	73.9	96.4	100.2	95.2	92.6
82.5°	51.3	62.6	65.1	62.6	60.1
85°	28.8	32.6	33.8	32.6	32.6
87.5°	8.8	8.8	11.3	13.8	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)