

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: P225585

Luminaire Tested: **22AC-LD5-27-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: P225585
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-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

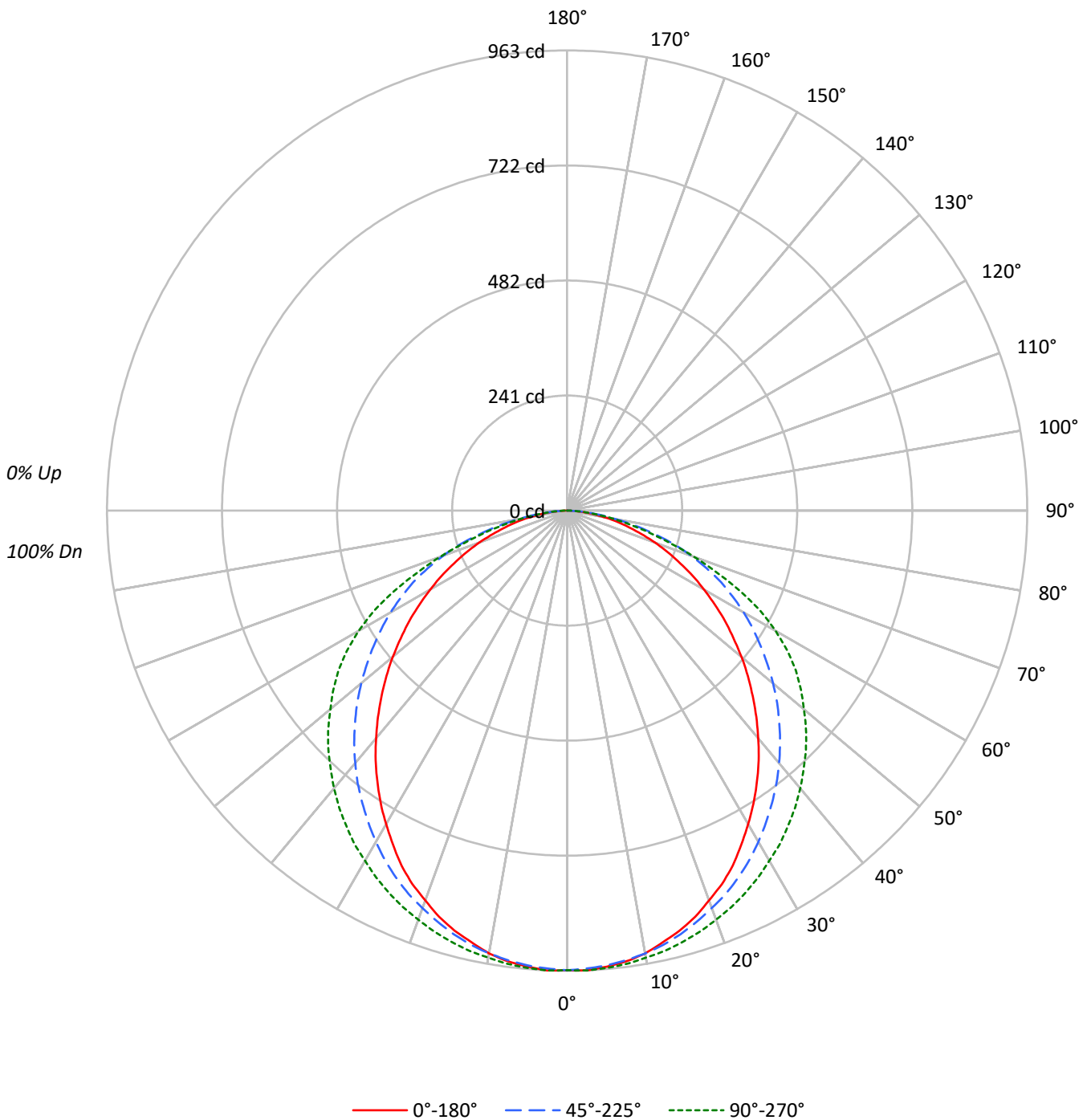
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2588	2588	2588
5°	2588	2581	2595
10°	2572	2572	2596
15°	2535	2557	2604
20°	2486	2535	2609
25°	2435	2516	2620
30°	2354	2487	2629
35°	2275	2455	2647
40°	2186	2423	2666
45°	2090	2388	2690
50°	1994	2354	2708
55°	1893	2320	2742
60°	1779	2298	2711
65°	1666	2263	2553
70°	1537	2172	2223
75°	1381	1948	1840
80°	1190	1613	1492
85°	923	1084	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.4
10°-20°	259.5	9.6
20°-30°	391.1	14.5
30°-40°	468.3	17.3
40°-50°	484.3	17.9
50°-60°	442.3	16.4
60°-70°	338.5	12.5
70°-80°	184.0	6.8
80°-90°	43.0	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°	741.6	27.4
0°-40°	1209.8	44.8
0°-60°	2136.5	79.1
0°-90°	2702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	958	957	955	958	961	91
15°	910	911	918	928	935	256
25°	820	827	847	871	882	377
35°	692	708	747	788	806	433
45°	549	571	627	683	707	424
55°	404	435	495	560	584	360
65°	262	292	355	396	401	259
75°	133	164	187	184	177	142
85°	30	34	35	34	34	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.9	961.9	961.9	961.9	961.9
2.5°	963.2	960.6	959.3	961.9	963.2
5°	958.0	956.7	955.4	958.0	960.6
7.5°	951.5	948.9	948.9	954.1	956.7
10°	941.1	938.5	941.1	947.6	950.2
12.5°	925.5	926.8	930.7	939.8	943.7
15°	909.9	911.2	917.7	928.1	934.6
17.5°	891.6	894.2	902.1	917.7	924.2
20°	868.2	872.1	885.1	903.4	911.2
22.5°	846.1	850.0	868.2	889.0	898.2
25°	820.1	826.6	847.4	870.8	882.5
27.5°	788.8	800.5	825.3	852.6	865.6
30°	757.6	770.6	800.5	833.1	846.1
32.5°	726.3	739.3	774.5	812.2	827.9
35°	692.5	708.1	747.2	787.5	805.7
37.5°	658.6	676.9	719.8	764.1	783.6
40°	622.2	643.0	689.9	739.3	758.9
42.5°	585.8	605.3	659.9	710.7	732.8
45°	549.3	571.4	627.4	683.4	706.8
47.5°	512.9	536.3	596.2	653.4	678.2
50°	476.4	502.4	562.3	623.5	646.9
52.5°	438.7	466.0	528.5	592.3	617.0
55°	403.5	434.8	494.6	559.7	584.4
57.5°	367.1	398.3	460.8	525.9	546.7
60°	330.6	359.3	426.9	486.8	503.7
62.5°	296.8	325.4	390.5	443.9	456.9
65°	261.6	291.6	355.4	395.7	400.9
67.5°	227.8	257.7	316.3	346.2	339.7
70°	195.3	225.2	276.0	286.4	282.5
72.5°	162.7	193.9	235.6	234.3	225.2
75°	132.8	164.0	187.4	183.5	177.0
77.5°	106.7	131.5	145.8	139.3	134.1
80°	76.8	100.2	104.1	98.9	96.3
82.5°	53.4	65.1	67.7	65.1	62.5
85°	29.9	33.8	35.1	33.8	33.8
87.5°	9.1	9.1	11.7	14.3	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)