

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: P225590

Luminaire Tested: **22AC-LD5-23-UNV-L840-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: P225590
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-LD5-23-UNV-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2439.8 lumens
Efficiency: N/A
Efficacy: 125.0 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

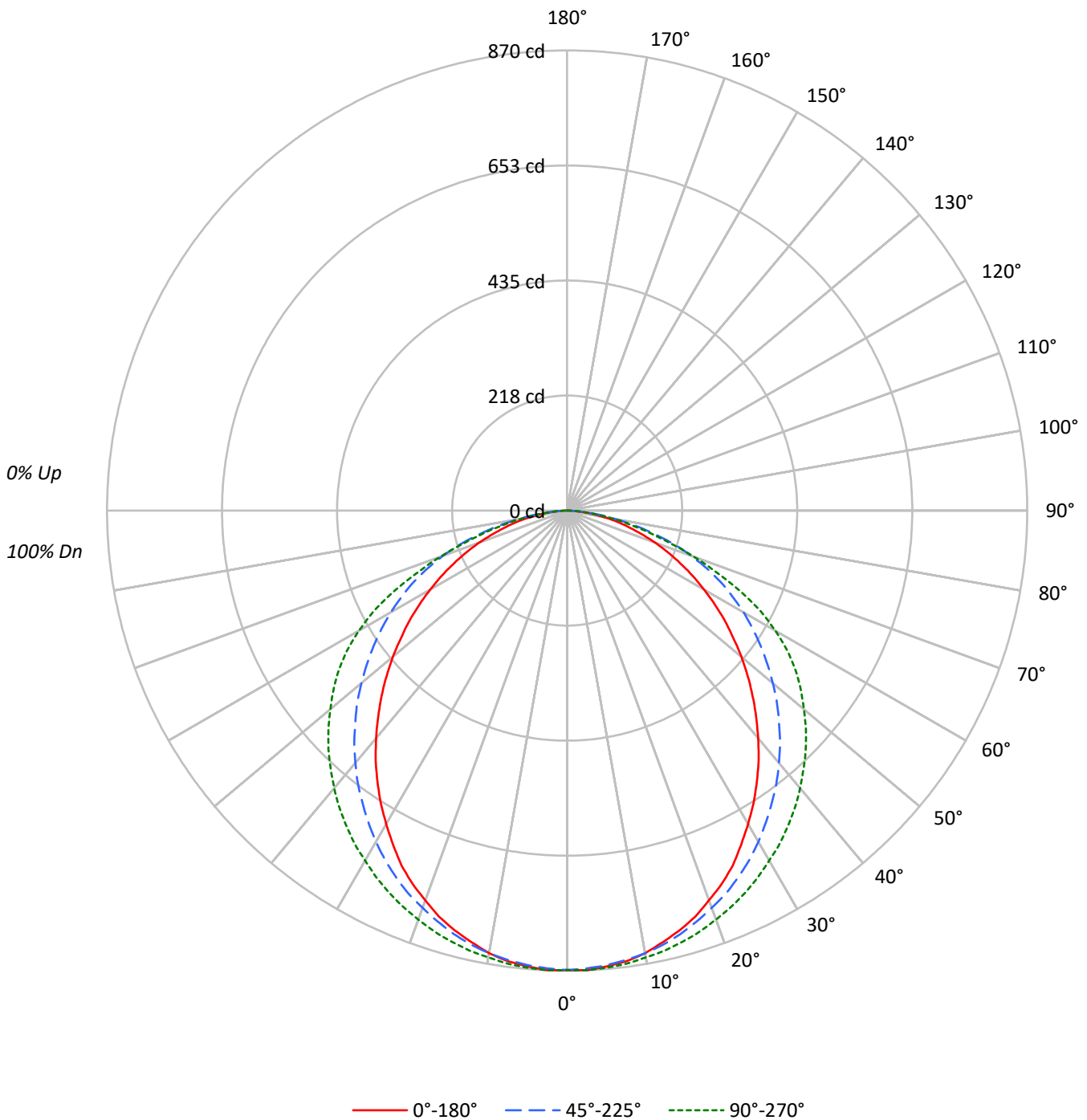
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2337	2337	2337
5°	2337	2330	2343
10°	2322	2322	2344
15°	2289	2308	2351
20°	2245	2289	2356
25°	2199	2272	2366
30°	2126	2246	2374
35°	2054	2216	2390
40°	1974	2188	2407
45°	1888	2156	2429
50°	1801	2126	2446
55°	1710	2095	2476
60°	1607	2075	2448
65°	1505	2043	2305
70°	1387	1961	2007
75°	1247	1760	1663
80°	1074	1457	1348
85°	834	979	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.4
10°-20°	234.4	9.6
20°-30°	353.1	14.5
30°-40°	422.8	17.3
40°-50°	437.3	17.9
50°-60°	399.4	16.4
60°-70°	305.6	12.5
70°-80°	166.2	6.8
80°-90°	38.9	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°	669.6	27.4
0°-40°	1092.5	44.8
0°-60°	1929.2	79.1
0°-90°	2439.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	865	864	863	865	867	82
15°	822	823	829	838	844	231
25°	740	746	765	786	797	340
35°	625	639	675	711	728	391
45°	496	516	566	617	638	383
55°	364	393	447	505	528	326
65°	236	263	321	357	362	234
75°	120	148	169	166	160	128
85°	27	31	32	31	31	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.6	868.6	868.6	868.6	868.6
2.5°	869.8	867.4	866.3	868.6	869.8
5°	865.1	863.9	862.7	865.1	867.4
7.5°	859.2	856.8	856.8	861.5	863.9
10°	849.8	847.4	849.8	855.7	858.0
12.5°	835.7	836.9	840.4	848.6	852.1
15°	821.6	822.8	828.6	838.0	843.9
17.5°	805.1	807.5	814.5	828.6	834.5
20°	784.0	787.5	799.3	815.7	822.8
22.5°	764.0	767.5	784.0	802.8	811.0
25°	740.5	746.4	765.2	786.3	796.9
27.5°	712.3	722.9	745.2	769.9	781.6
30°	684.1	695.8	722.9	752.2	764.0
32.5°	655.9	667.6	699.3	733.4	747.5
35°	625.3	639.4	674.7	711.1	727.6
37.5°	594.7	611.2	650.0	689.9	707.6
40°	561.8	580.6	622.9	667.6	685.2
42.5°	528.9	546.5	595.9	641.8	661.7
45°	496.0	516.0	566.5	617.1	638.2
47.5°	463.1	484.3	538.3	590.0	612.4
50°	430.2	453.7	507.8	563.0	584.2
52.5°	396.1	420.8	477.2	534.8	557.1
55°	364.4	392.6	446.6	505.4	527.7
57.5°	331.5	359.7	416.1	474.9	493.7
60°	298.5	324.4	385.5	439.6	454.9
62.5°	268.0	293.8	352.6	400.8	412.6
65°	236.3	263.3	320.9	357.3	362.0
67.5°	205.7	232.7	285.6	312.6	306.8
70°	176.3	203.3	249.2	258.6	255.1
72.5°	146.9	175.1	212.7	211.6	203.3
75°	119.9	148.1	169.3	165.7	159.9
77.5°	96.4	118.7	131.6	125.8	121.1
80°	69.3	90.5	94.0	89.3	87.0
82.5°	48.2	58.8	61.1	58.8	56.4
85°	27.0	30.6	31.7	30.6	30.6
87.5°	8.2	8.2	10.6	12.9	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)