

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: P225594

Luminaire Tested: **22AC-LD5-44-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: P225594
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-LD5-44-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: 4527.8 lumens
Efficiency: N/A
Efficacy: 107.0 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

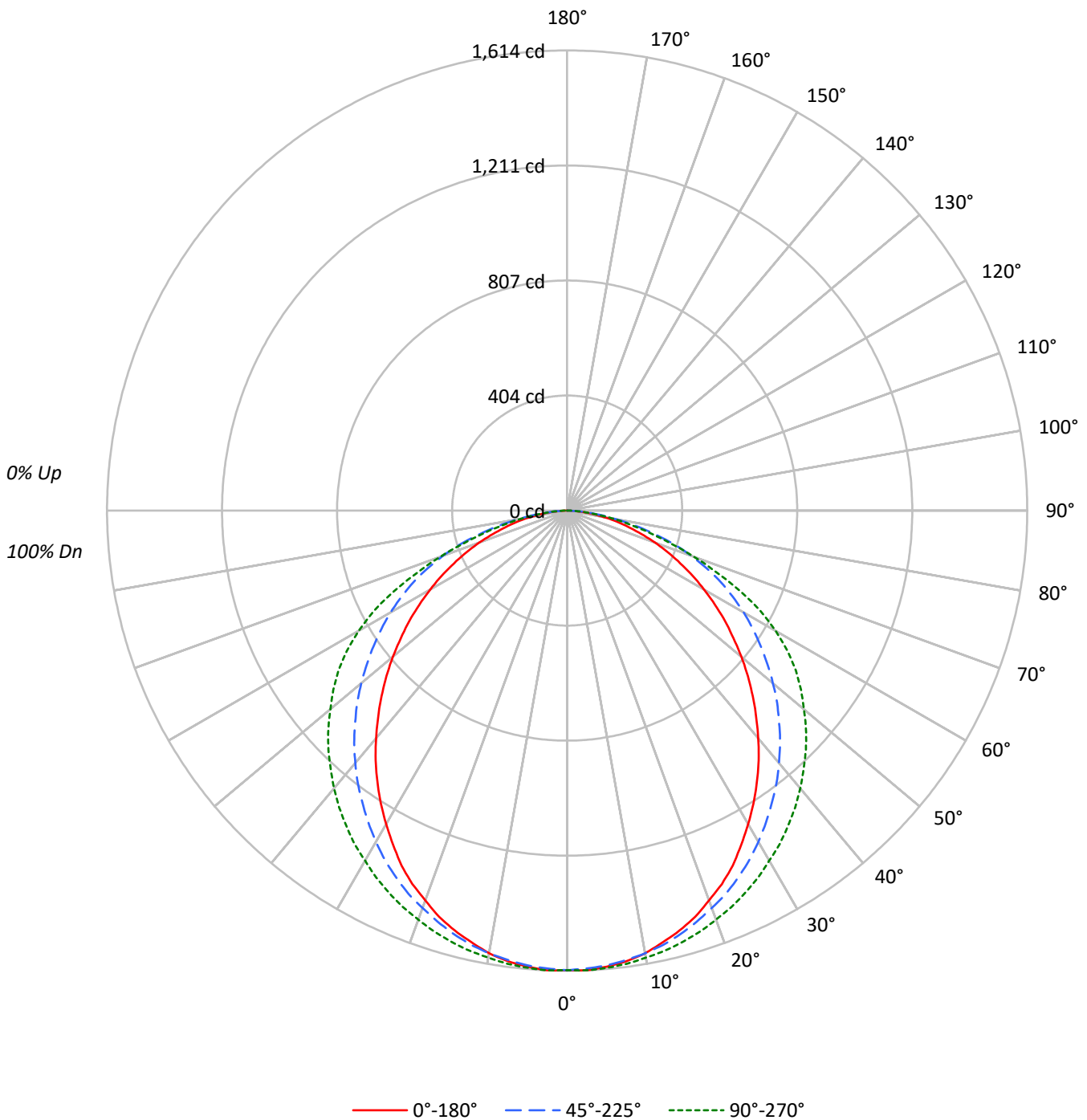
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4338	4338	4338
5°	4337	4325	4348
10°	4309	4309	4351
15°	4248	4284	4363
20°	4166	4247	4373
25°	4080	4216	4391
30°	3945	4168	4405
35°	3812	4113	4436
40°	3662	4061	4467
45°	3503	4001	4507
50°	3342	3945	4538
55°	3172	3889	4595
60°	2982	3850	4543
65°	2791	3792	4278
70°	2574	3638	3724
75°	2313	3266	3084
80°	1994	2704	2501
85°	1550	1819	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.4
10°-20°	434.9	9.6
20°-30°	655.3	14.5
30°-40°	784.7	17.3
40°-50°	811.5	17.9
50°-60°	741.2	16.4
60°-70°	567.2	12.5
70°-80°	308.4	6.8
80°-90°	72.1	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°	1242.7	27.4
0°-40°	2027.3	44.8
0°-60°	3580.1	79.1
0°-90°	4527.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4527.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1605	1603	1601	1605	1610	152
15°	1525	1527	1538	1555	1566	430
25°	1374	1385	1420	1459	1479	631
35°	1160	1187	1252	1320	1350	726
45°	920	958	1051	1145	1184	710
55°	676	728	829	938	979	604
65°	438	489	596	663	672	435
75°	222	275	314	308	297	238
85°	50	57	59	57	57	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1614.1	1609.7	1607.6	1611.9	1614.1
5°	1605.4	1603.2	1601.0	1605.4	1609.7
7.5°	1594.5	1590.1	1590.1	1598.8	1603.2
10°	1577.0	1572.7	1577.0	1587.9	1592.3
12.5°	1550.9	1553.0	1559.6	1574.8	1581.4
15°	1524.7	1526.9	1537.8	1555.2	1566.1
17.5°	1494.1	1498.5	1511.6	1537.8	1548.7
20°	1454.9	1461.4	1483.2	1513.8	1526.9
22.5°	1417.8	1424.3	1454.9	1489.8	1505.0
25°	1374.2	1385.1	1420.0	1459.2	1478.9
27.5°	1321.8	1341.5	1382.9	1428.7	1450.5
30°	1269.5	1291.3	1341.5	1396.0	1417.8
32.5°	1217.1	1238.9	1297.8	1361.1	1387.3
35°	1160.4	1186.6	1252.0	1319.6	1350.2
37.5°	1103.7	1134.2	1206.2	1280.4	1313.1
40°	1042.6	1077.5	1156.0	1238.9	1271.7
42.5°	981.6	1014.3	1105.9	1190.9	1228.0
45°	920.5	957.6	1051.4	1145.1	1184.4
47.5°	859.4	898.7	999.0	1095.0	1136.4
50°	798.3	842.0	942.3	1044.8	1084.1
52.5°	735.1	780.9	885.6	992.5	1033.9
55°	676.2	728.5	828.9	937.9	979.4
57.5°	615.1	667.5	772.2	881.2	916.1
60°	554.0	602.0	715.4	815.8	844.1
62.5°	497.3	545.3	654.4	743.8	765.6
65°	438.4	488.6	595.5	663.1	671.8
67.5°	381.7	431.9	530.0	580.2	569.3
70°	327.2	377.4	462.4	479.9	473.3
72.5°	272.7	325.0	394.8	392.6	377.4
75°	222.5	274.8	314.1	307.6	296.6
77.5°	178.9	220.3	244.3	233.4	224.7
80°	128.7	168.0	174.5	165.8	161.4
82.5°	89.4	109.1	113.4	109.1	104.7
85°	50.2	56.7	58.9	56.7	56.7
87.5°	15.3	15.3	19.6	24.0	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)