

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: P225626

Luminaire Tested: **22AC-LD5-23-RDP-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: P225626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35766)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-23-RDP-UNV-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

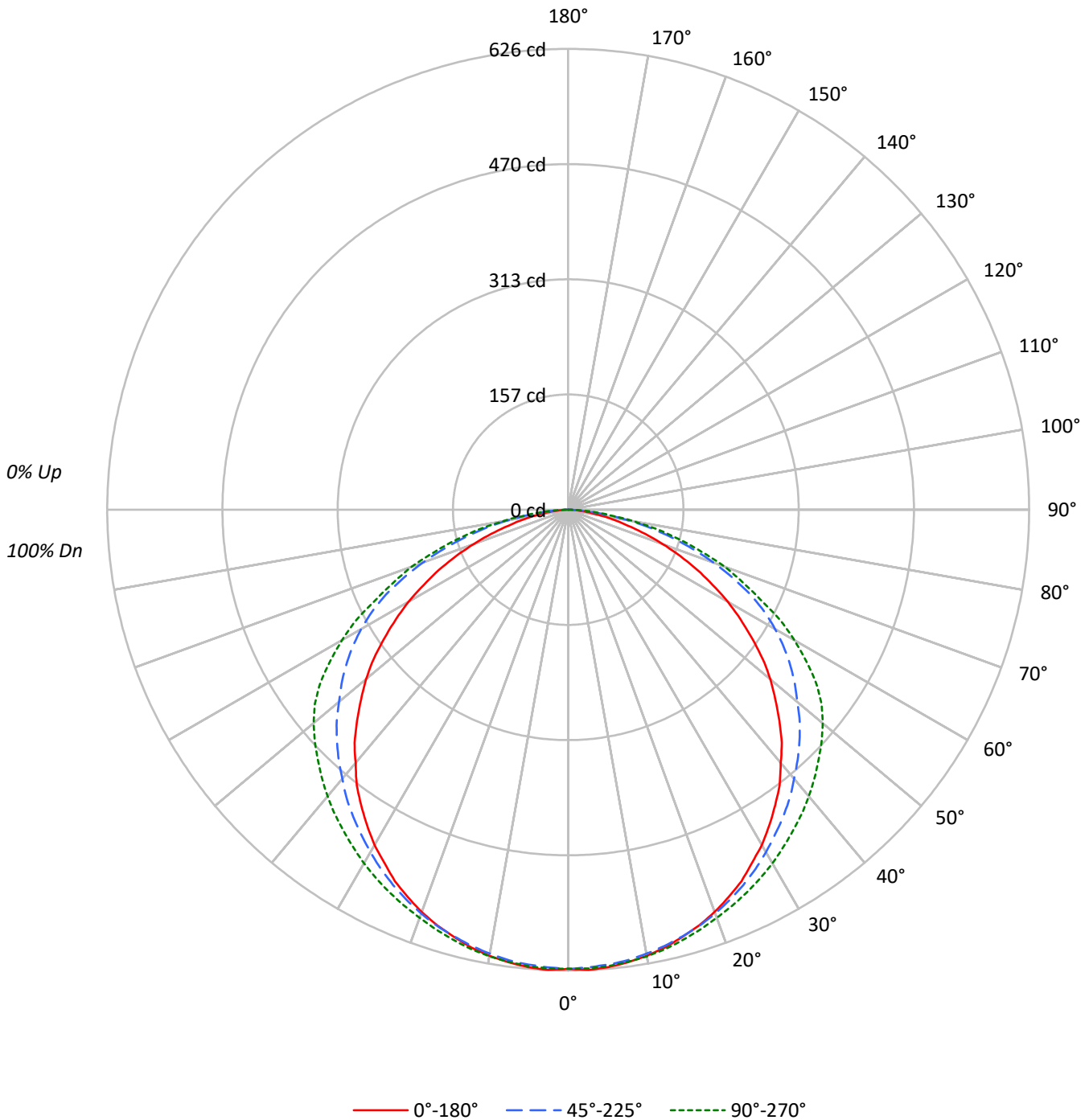
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225626

CATALOG NUMBER: 22AC-LD5-23-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225626

CATALOG NUMBER: 22AC-LD5-23-RDP-UNV-L840-CD1-U

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1678	1678	1678
5°	1685	1675	1681
10°	1681	1673	1683
15°	1673	1671	1685
20°	1665	1671	1689
25°	1653	1670	1703
30°	1634	1669	1724
35°	1610	1672	1748
40°	1578	1677	1786
45°	1543	1690	1830
50°	1500	1701	1889
55°	1430	1727	1929
60°	1349	1746	1910
65°	1233	1739	1829
70°	1075	1656	1778
75°	879	1508	1632
80°	687	1277	1396
85°	479	849	1000



TEST NUMBER: P225626

CATALOG NUMBER: 22AC-LD5-23-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.1
10°-20°	169.9	8.9
20°-30°	260.0	13.6
30°-40°	319.5	16.7
40°-50°	342.6	18.0
50°-60°	324.7	17.0
60°-70°	253.8	13.3
70°-80°	144.4	7.6
80°-90°	33.8	1.8
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°	488.9	25.6
0°-40°	808.4	42.4
0°-60°	1475.7	77.4
0°-90°	1907.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	624	622	620	622	622	59
15°	600	600	600	603	605	170
25°	557	558	562	570	574	256
35°	490	496	509	525	532	307
45°	406	417	444	471	481	313
55°	305	332	368	401	411	273
65°	194	229	273	284	287	191
75°	84	126	145	156	157	92
85°	16	22	28	32	32	19
90°	0	0	0	0	0	



TEST NUMBER: P225626

CATALOG NUMBER: 22AC-LD5-23-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.7	623.7	623.7	623.7	623.7
2.5°	625.8	623.7	622.3	623.0	623.7
5°	623.7	622.3	620.2	621.6	622.3
7.5°	620.2	618.8	617.4	618.8	619.5
10°	615.3	613.9	612.4	614.6	616.0
12.5°	608.9	607.5	606.8	609.6	611.0
15°	600.5	599.8	599.8	602.6	604.7
17.5°	592.0	591.3	592.7	596.3	597.7
20°	581.5	581.5	583.6	587.8	589.9
22.5°	569.5	570.2	573.7	579.4	582.2
25°	556.8	558.2	562.5	570.2	573.7
27.5°	540.6	543.5	550.5	559.6	564.6
30°	525.9	528.7	537.1	549.1	554.7
32.5°	508.3	513.2	523.0	537.1	543.5
35°	490.0	495.6	509.0	525.2	532.2
37.5°	471.7	477.3	494.2	512.5	520.9
40°	449.1	459.0	477.3	499.1	508.3
42.5°	429.4	438.6	461.1	485.0	494.9
45°	405.5	417.4	444.2	470.9	480.8
47.5°	381.5	396.3	426.6	455.5	466.7
50°	358.3	373.8	406.2	438.6	451.2
52.5°	333.0	352.0	387.9	421.7	433.6
55°	304.8	331.6	368.2	401.3	411.1
57.5°	277.4	305.5	347.1	378.7	383.7
60°	250.6	279.5	324.5	349.2	354.8
62.5°	221.0	254.1	300.6	320.3	324.5
65°	193.6	228.8	273.1	284.4	287.2
67.5°	164.7	202.0	241.5	252.7	255.5
70°	136.6	176.7	210.5	220.3	226.0
72.5°	109.8	150.6	176.7	187.3	190.1
75°	84.5	126.0	145.0	155.6	157.0
77.5°	64.1	98.6	114.7	123.2	124.6
80°	44.3	68.3	82.4	88.7	90.1
82.5°	28.2	43.6	52.8	57.7	57.7
85°	15.5	22.5	27.5	31.7	32.4
87.5°	5.6	7.0	9.2	14.1	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)