

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: P225608

Luminaire Tested: **22AC-LD5-23-SQP-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: P225608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-23-SQP-UNV-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP 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: 1779.5 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

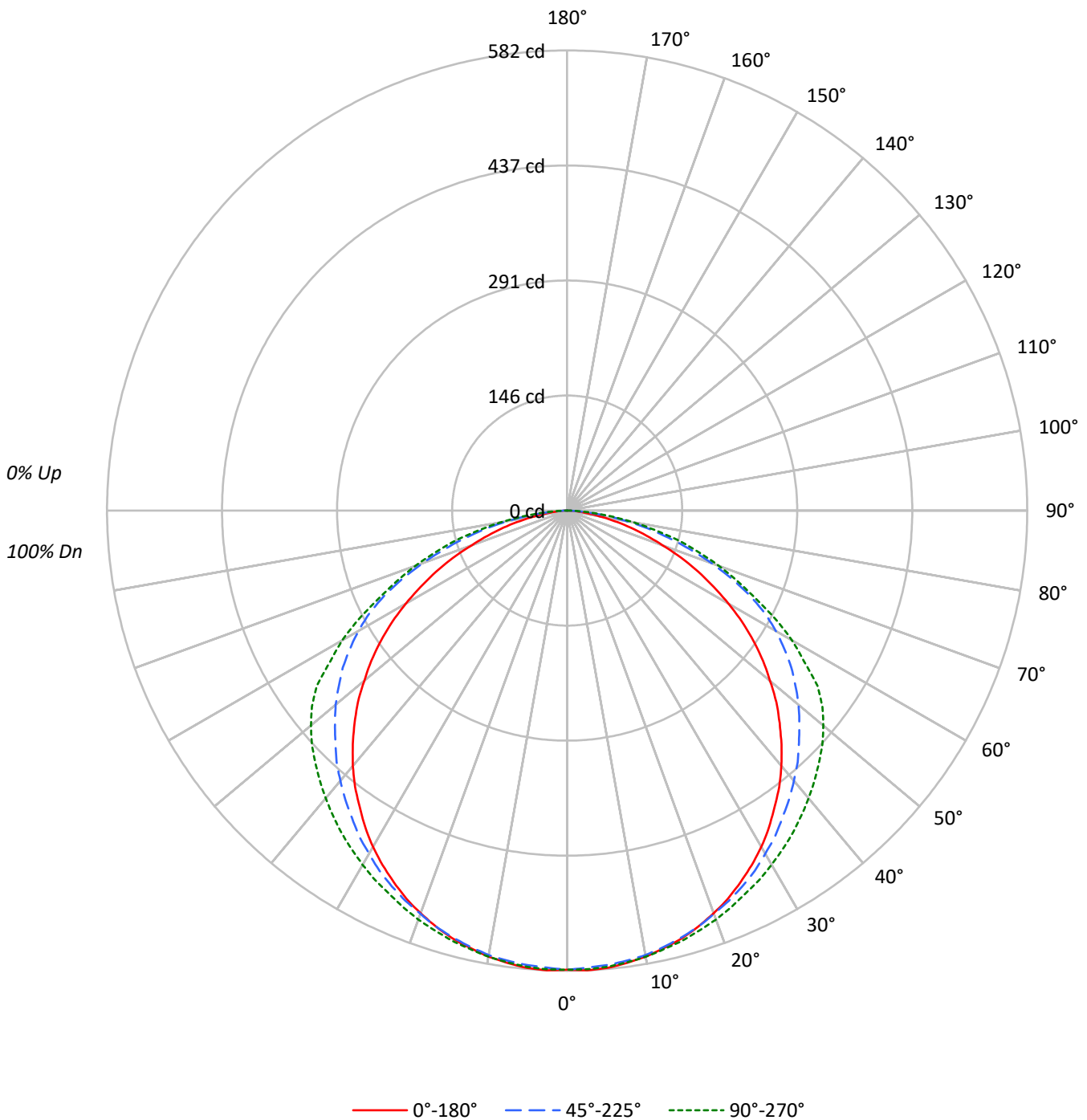
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225608

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

Luminous Intensity Polar Plot





TEST NUMBER: P225608

CATALOG NUMBER: 22AC-LD5-23-SQP-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	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	53	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	35	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°	1563	1563	1563
5°	1569	1559	1565
10°	1565	1560	1565
15°	1561	1557	1569
20°	1552	1554	1576
25°	1540	1557	1586
30°	1527	1557	1607
35°	1503	1558	1635
40°	1481	1567	1669
45°	1447	1578	1714
50°	1402	1600	1771
55°	1351	1625	1813
60°	1269	1640	1769
65°	1165	1627	1671
70°	1013	1529	1606
75°	864	1376	1515
80°	654	1178	1309
85°	435	781	914



TEST NUMBER: P225608

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	3.1
10°-20°	158.2	8.9
20°-30°	242.4	13.6
30°-40°	298.3	16.8
40°-50°	320.7	18.0
50°-60°	304.4	17.1
60°-70°	235.9	13.3
70°-80°	133.2	7.5
80°-90°	31.4	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°	455.6	25.6
0°-40°	753.9	42.4
0°-60°	1379.0	77.5
0°-90°	1779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	581	579	577	578	579	55
15°	560	560	559	562	563	158
25°	519	520	524	531	534	239
35°	458	463	474	491	498	286
45°	380	391	415	441	450	293
55°	288	311	346	376	386	257
65°	183	214	256	260	262	181
75°	83	118	132	141	146	88
85°	14	20	25	29	30	18
90°	0	0	0	0	0	



TEST NUMBER: P225608

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.7	580.7	580.7	580.7	580.7
2.5°	582.1	580.7	578.6	580.0	580.7
5°	580.7	578.6	577.1	577.9	579.3
7.5°	577.1	575.7	574.3	575.7	576.4
10°	572.9	571.5	570.8	572.2	572.9
12.5°	566.6	565.9	565.2	567.3	568.0
15°	560.3	559.6	558.8	561.7	563.1
17.5°	551.8	551.1	551.8	554.6	556.7
20°	542.0	542.0	542.7	547.6	550.4
22.5°	531.4	532.1	534.2	539.1	542.7
25°	518.7	520.1	524.4	530.7	534.2
27.5°	505.4	507.5	513.8	521.5	526.5
30°	491.3	494.1	501.1	511.7	517.3
32.5°	475.1	478.6	489.2	501.8	507.5
35°	457.5	463.1	474.4	490.6	497.6
37.5°	440.6	446.2	461.0	478.6	486.4
40°	421.6	428.6	446.2	465.9	475.1
42.5°	401.2	410.3	431.5	454.0	463.1
45°	380.1	391.3	414.6	440.6	450.5
47.5°	359.0	370.9	398.4	426.5	437.8
50°	335.0	350.5	382.2	411.0	423.0
52.5°	312.5	330.1	363.9	394.1	406.8
55°	287.9	311.1	346.3	375.8	386.4
57.5°	262.5	288.6	325.9	352.6	355.4
60°	235.8	263.2	304.8	323.8	328.7
62.5°	209.0	239.3	282.2	296.3	297.0
65°	183.0	214.0	255.5	260.4	262.5
67.5°	156.3	190.7	225.2	228.7	233.0
70°	128.8	166.8	194.3	201.3	204.1
72.5°	104.9	142.2	162.6	171.0	173.8
75°	83.1	117.5	132.3	140.8	145.7
77.5°	61.2	90.8	104.2	111.2	113.3
80°	42.2	64.0	76.0	81.6	84.5
82.5°	26.7	40.8	48.6	54.2	55.6
85°	14.1	20.4	25.3	28.9	29.6
87.5°	5.6	6.3	8.4	14.1	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)