

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: P225596

Luminaire Tested: **22AC-LD5-23-SQP-UNV-L830-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: P225596
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-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1678.1 lumens
Efficiency: N/A
Efficacy: 86.0 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

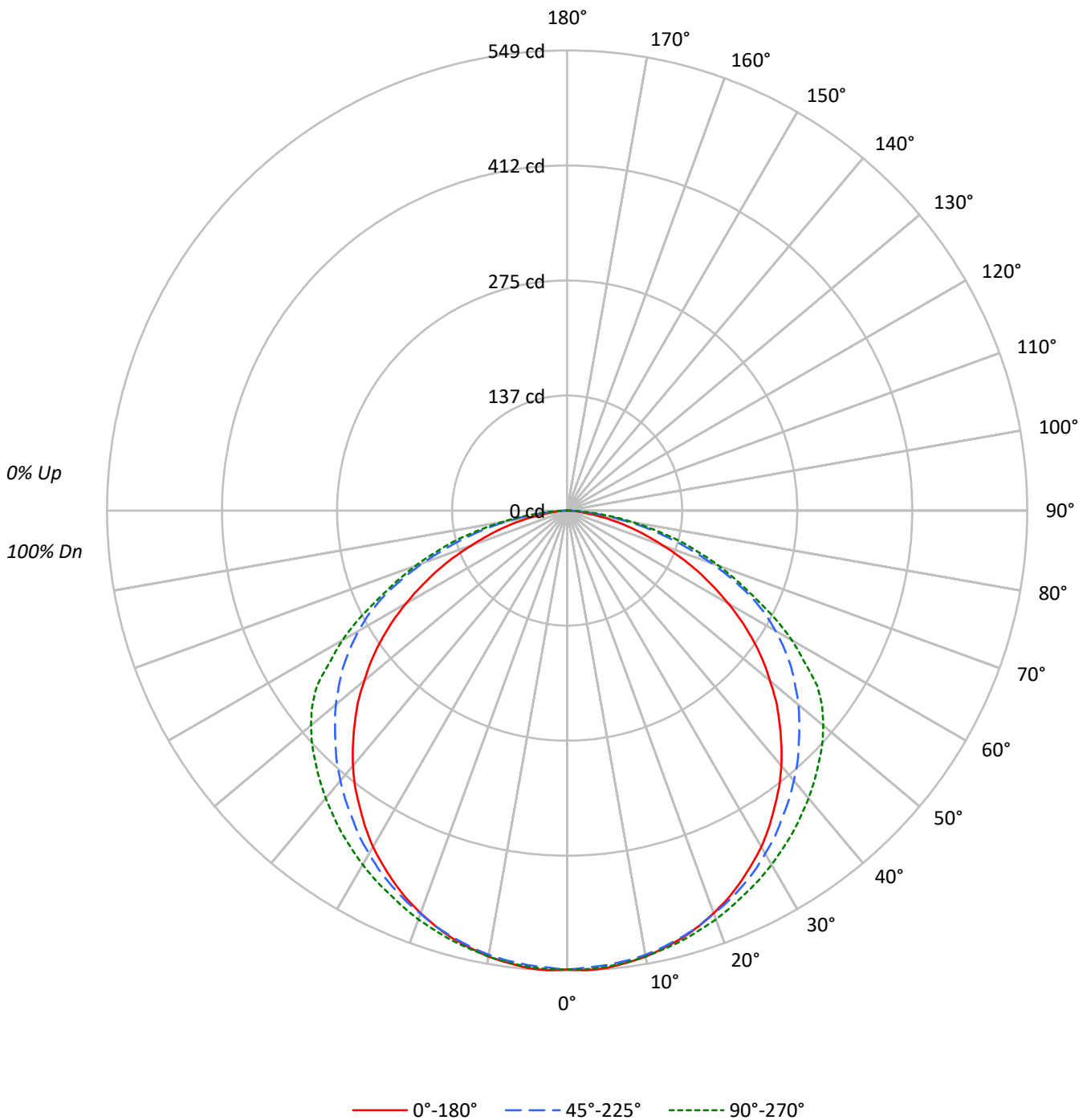
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1474	1474	1474
5°	1479	1470	1475
10°	1476	1471	1476
15°	1472	1468	1479
20°	1464	1465	1486
25°	1453	1468	1496
30°	1440	1468	1516
35°	1417	1469	1541
40°	1397	1478	1574
45°	1364	1488	1617
50°	1322	1509	1670
55°	1274	1532	1710
60°	1196	1547	1668
65°	1099	1534	1577
70°	956	1441	1515
75°	814	1298	1429
80°	617	1111	1234
85°	411	738	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.1
10°-20°	149.2	8.9
20°-30°	228.6	13.6
30°-40°	281.3	16.8
40°-50°	302.4	18.0
50°-60°	287.1	17.1
60°-70°	222.5	13.3
70°-80°	125.6	7.5
80°-90°	29.6	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°	429.6	25.6
0°-40°	710.9	42.4
0°-60°	1300.4	77.5
0°-90°	1678.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	548	546	544	545	546	52
15°	528	528	527	530	531	149
25°	489	490	494	500	504	225
35°	431	437	447	463	469	270
45°	358	369	391	416	425	276
55°	272	293	326	354	364	242
65°	173	202	241	246	248	170
75°	78	111	125	133	137	83
85°	13	19	24	27	28	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.6	547.6	547.6	547.6	547.6
2.5°	548.9	547.6	545.6	546.9	547.6
5°	547.6	545.6	544.2	544.9	546.2
7.5°	544.2	542.9	541.6	542.9	543.6
10°	540.3	538.9	538.3	539.6	540.3
12.5°	534.3	533.6	533.0	535.0	535.6
15°	528.3	527.7	527.0	529.6	531.0
17.5°	520.4	519.7	520.4	523.0	525.0
20°	511.1	511.1	511.7	516.4	519.0
22.5°	501.1	501.8	503.8	508.4	511.7
25°	489.2	490.5	494.5	500.4	503.8
27.5°	476.5	478.5	484.5	491.8	496.5
30°	463.3	465.9	472.6	482.5	487.8
32.5°	448.0	451.3	461.3	473.2	478.5
35°	431.4	436.7	447.3	462.6	469.2
37.5°	415.5	420.8	434.7	451.3	458.6
40°	397.6	404.2	420.8	439.4	448.0
42.5°	378.3	386.9	406.9	428.1	436.7
45°	358.4	369.0	390.9	415.5	424.8
47.5°	338.5	349.8	375.7	402.2	412.8
50°	315.9	330.5	360.4	387.6	398.9
52.5°	294.7	311.3	343.1	371.7	383.6
55°	271.5	293.4	326.5	354.4	364.4
57.5°	247.6	272.1	307.3	332.5	335.2
60°	222.3	248.2	287.4	305.3	310.0
62.5°	197.1	225.7	266.2	279.4	280.1
65°	172.6	201.8	240.9	245.6	247.6
67.5°	147.3	179.9	212.4	215.7	219.7
70°	121.5	157.3	183.2	189.8	192.5
72.5°	98.9	134.1	153.3	161.3	163.9
75°	78.3	110.8	124.8	132.7	137.4
77.5°	57.7	85.6	98.2	104.9	106.9
80°	39.8	60.4	71.7	77.0	79.6
82.5°	25.2	38.5	45.8	51.1	52.4
85°	13.3	19.2	23.9	27.2	27.9
87.5°	5.3	6.0	8.0	13.3	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)