

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: P225603

Luminaire Tested: **22AC-LD5-27-SQP-UNV-L835-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: P225603
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-LD5-27-SQP-UNV-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1970.8 lumens
Efficiency: N/A
Efficacy: 88.0 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

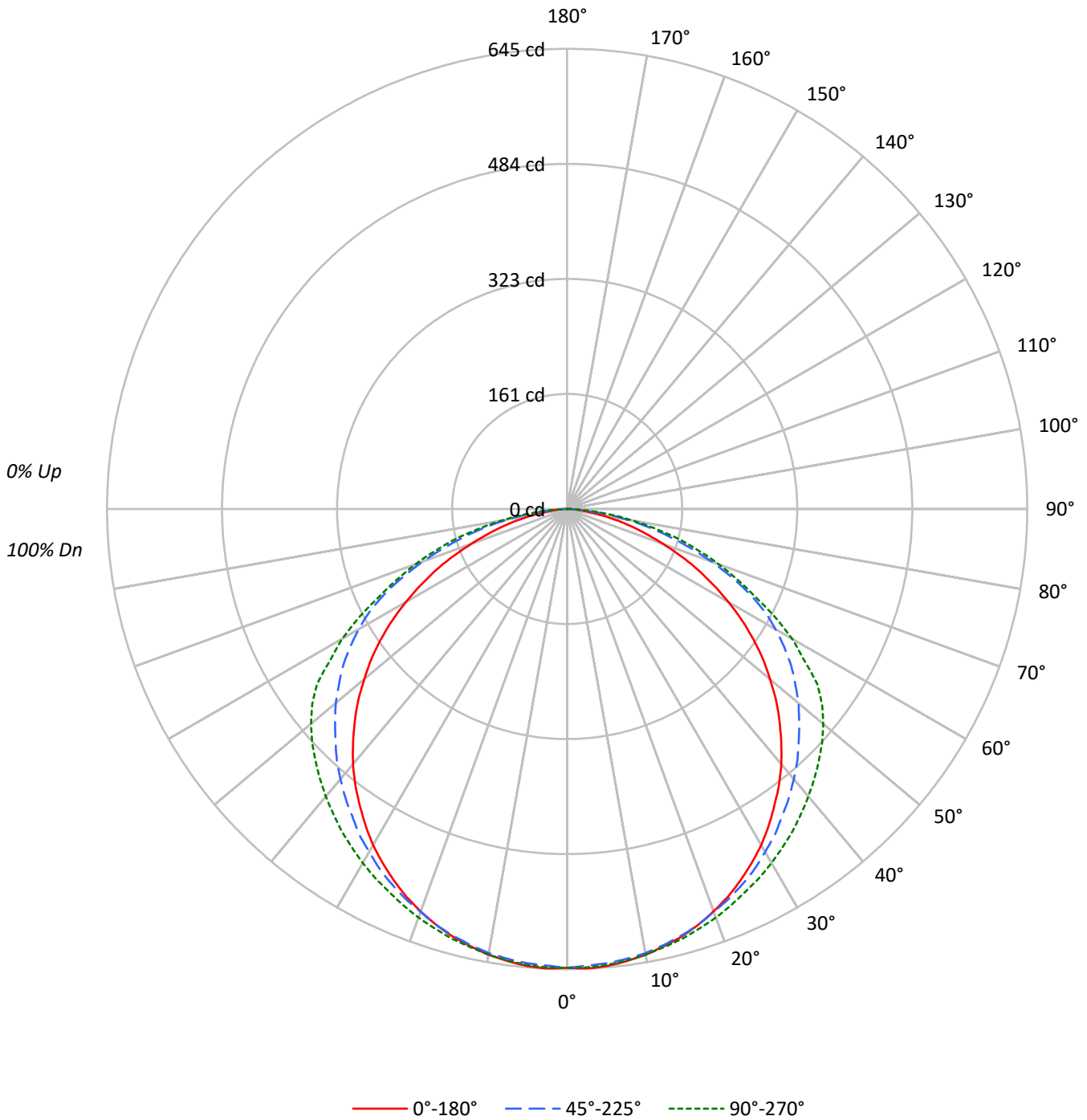
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1731	1731	1731
5°	1737	1727	1733
10°	1734	1727	1734
15°	1729	1724	1737
20°	1719	1721	1745
25°	1706	1724	1757
30°	1691	1725	1780
35°	1665	1726	1810
40°	1640	1736	1848
45°	1602	1747	1899
50°	1553	1772	1961
55°	1496	1799	2008
60°	1405	1816	1959
65°	1291	1801	1851
70°	1122	1692	1778
75°	957	1523	1677
80°	725	1305	1449
85°	482	868	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.1
10°-20°	175.2	8.9
20°-30°	268.4	13.6
30°-40°	330.4	16.8
40°-50°	355.1	18.0
50°-60°	337.1	17.1
60°-70°	261.3	13.3
70°-80°	147.5	7.5
80°-90°	34.8	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°	504.5	25.6
0°-40°	834.9	42.4
0°-60°	1527.2	77.5
0°-90°	1970.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1970.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	643	641	639	640	642	61
15°	620	620	619	622	624	175
25°	574	576	581	588	592	265
35°	507	513	525	543	551	317
45°	421	433	459	488	499	325
55°	319	344	384	416	428	284
65°	203	237	283	288	291	200
75°	92	130	146	156	161	98
85°	16	23	28	32	33	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	643.1	643.1	643.1	643.1	643.1
2.5°	644.6	643.1	640.7	642.3	643.1
5°	643.1	640.7	639.2	639.9	641.5
7.5°	639.2	637.6	636.0	637.6	638.4
10°	634.5	632.9	632.1	633.7	634.5
12.5°	627.5	626.7	625.9	628.2	629.0
15°	620.5	619.7	618.9	622.0	623.6
17.5°	611.1	610.3	611.1	614.2	616.6
20°	600.2	600.2	601.0	606.4	609.5
22.5°	588.5	589.3	591.6	597.1	601.0
25°	574.5	576.0	580.7	587.7	591.6
27.5°	559.7	562.0	569.0	577.6	583.0
30°	544.1	547.2	555.0	566.7	572.9
32.5°	526.1	530.0	541.7	555.8	562.0
35°	506.7	512.9	525.4	543.3	551.1
37.5°	487.9	494.2	510.5	530.0	538.6
40°	466.9	474.7	494.2	516.0	526.1
42.5°	444.3	454.4	477.8	502.8	512.9
45°	420.9	433.4	459.1	487.9	498.9
47.5°	397.5	410.8	441.2	472.4	484.8
50°	371.0	388.2	423.2	455.2	468.5
52.5°	346.1	365.6	403.0	436.5	450.5
55°	318.8	344.5	383.5	416.2	427.9
57.5°	290.7	319.6	360.9	390.5	393.6
60°	261.1	291.5	337.5	358.6	364.0
62.5°	231.5	265.0	312.6	328.2	328.9
65°	202.7	237.0	282.9	288.4	290.7
67.5°	173.0	211.2	249.4	253.3	258.0
70°	142.6	184.7	215.1	222.9	226.0
72.5°	116.1	157.5	180.1	189.4	192.5
75°	92.0	130.2	146.5	155.9	161.3
77.5°	67.8	100.6	115.4	123.2	125.5
80°	46.8	70.9	84.2	90.4	93.5
82.5°	29.6	45.2	53.8	60.0	61.6
85°	15.6	22.6	28.1	32.0	32.7
87.5°	6.2	7.0	9.4	15.6	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)