

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: P225620

Luminaire Tested: **22AC-LD5-23-RDP-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: P225620
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-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP 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: 1870.3 lumens
Efficiency: N/A
Efficacy: 95.8 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

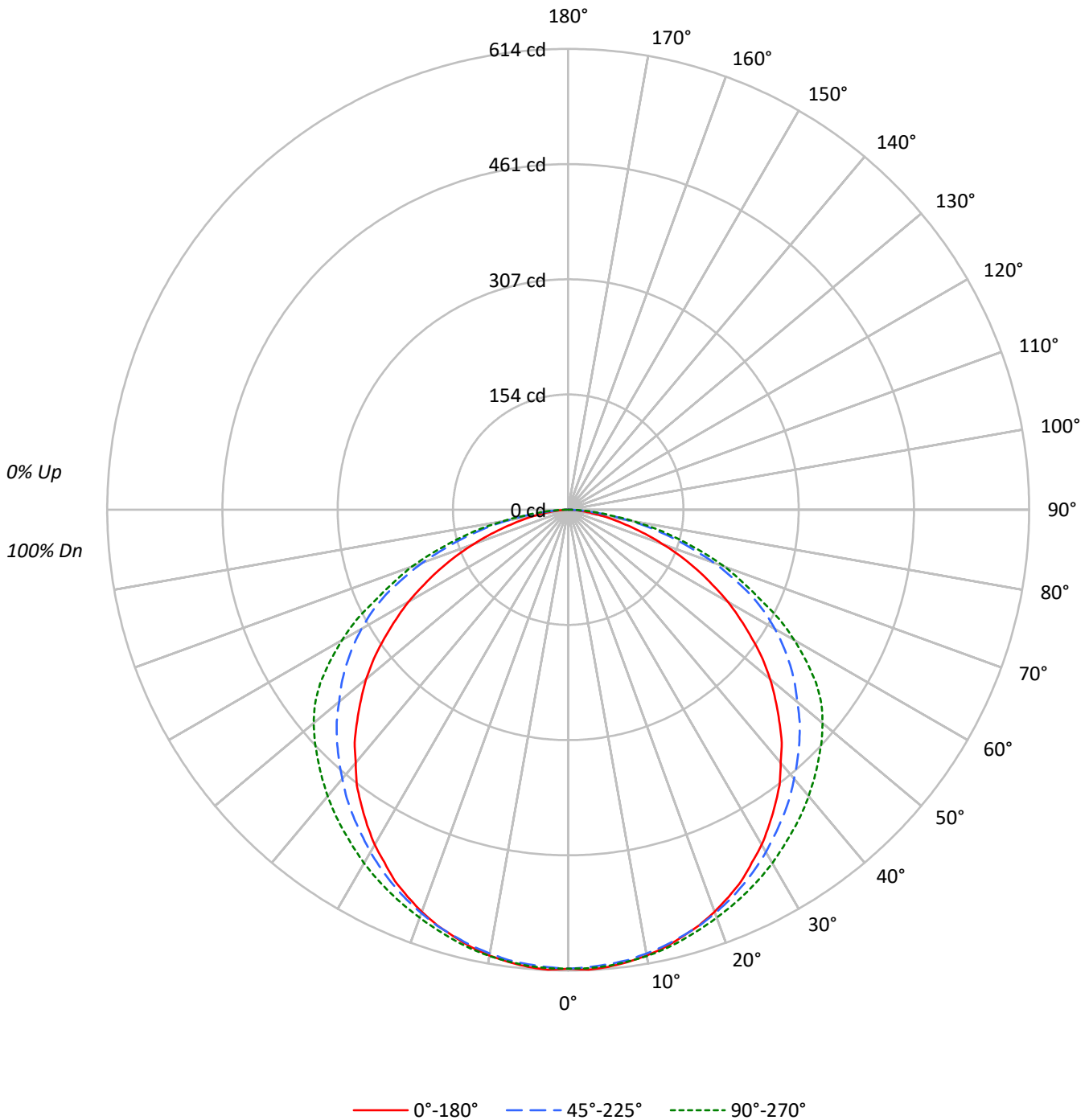
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1646	1646	1646
5°	1652	1642	1648
10°	1648	1641	1650
15°	1640	1638	1651
20°	1633	1638	1656
25°	1621	1637	1670
30°	1602	1636	1690
35°	1578	1639	1714
40°	1547	1644	1750
45°	1513	1657	1794
50°	1471	1667	1852
55°	1402	1694	1891
60°	1322	1713	1872
65°	1209	1705	1793
70°	1054	1624	1743
75°	861	1478	1600
80°	674	1251	1368
85°	469	831	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.1
10°-20°	166.5	8.9
20°-30°	254.9	13.6
30°-40°	313.2	16.7
40°-50°	335.9	18.0
50°-60°	318.4	17.0
60°-70°	248.8	13.3
70°-80°	141.5	7.6
80°-90°	33.1	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°	479.4	25.6
0°-40°	792.5	42.4
0°-60°	1446.8	77.4
0°-90°	1870.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1870.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	612	610	608	609	610	58
15°	589	588	588	591	593	166
25°	546	547	551	559	562	251
35°	480	486	499	515	522	300
45°	398	409	436	462	471	307
55°	299	325	361	393	403	267
65°	190	224	268	279	282	187
75°	83	124	142	152	154	90
85°	15	22	27	31	32	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.5	611.5	611.5	611.5	611.5
2.5°	613.5	611.5	610.1	610.8	611.5
5°	611.5	610.1	608.0	609.4	610.1
7.5°	608.0	606.6	605.3	606.6	607.3
10°	603.2	601.8	600.4	602.5	603.9
12.5°	597.0	595.6	594.9	597.7	599.1
15°	588.7	588.0	588.0	590.8	592.8
17.5°	580.4	579.7	581.1	584.6	585.9
20°	570.1	570.1	572.1	576.3	578.4
22.5°	558.3	559.0	562.5	568.0	570.8
25°	545.9	547.3	551.4	559.0	562.5
27.5°	530.0	532.8	539.7	548.7	553.5
30°	515.5	518.3	526.6	538.3	543.8
32.5°	498.3	503.1	512.8	526.6	532.8
35°	480.3	485.9	499.0	514.9	521.8
37.5°	462.4	467.9	484.5	502.4	510.7
40°	440.3	450.0	467.9	489.3	498.3
42.5°	421.0	430.0	452.1	475.5	485.2
45°	397.5	409.3	435.5	461.7	471.4
47.5°	374.1	388.6	418.2	446.5	457.6
50°	351.3	366.5	398.2	430.0	442.4
52.5°	326.4	345.1	380.3	413.4	425.1
55°	298.8	325.1	361.0	393.4	403.1
57.5°	271.9	299.5	340.2	371.3	376.1
60°	245.7	274.0	318.2	342.3	347.8
62.5°	216.7	249.1	294.7	314.0	318.2
65°	189.8	224.3	267.8	278.8	281.6
67.5°	161.5	198.1	236.7	247.8	250.5
70°	133.9	173.2	206.4	216.0	221.5
72.5°	107.7	147.7	173.2	183.6	186.3
75°	82.8	123.5	142.2	152.5	153.9
77.5°	62.8	96.6	112.5	120.8	122.2
80°	43.5	66.9	80.7	87.0	88.3
82.5°	27.6	42.8	51.8	56.6	56.6
85°	15.2	22.1	26.9	31.1	31.7
87.5°	5.5	6.9	9.0	13.8	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)