

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: P225614

Luminaire Tested: **22AC-LD5-23-RDP-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: P225614
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-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP 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: 1798.9 lumens
Efficiency: N/A
Efficacy: 92.2 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

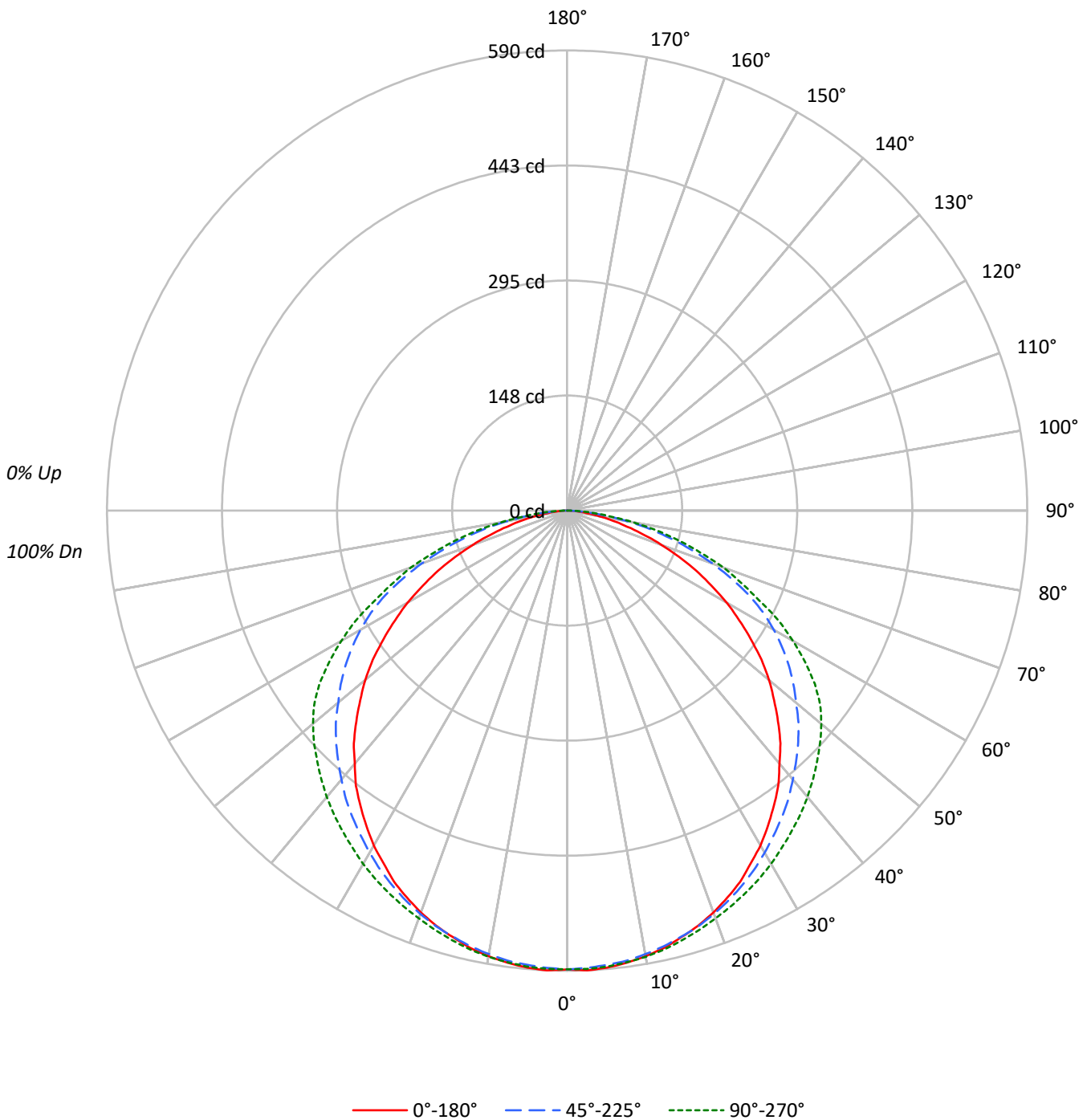
Input Watts (W): 19.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1583	1583	1583
5°	1589	1580	1585
10°	1585	1578	1587
15°	1578	1576	1589
20°	1570	1576	1593
25°	1559	1575	1606
30°	1541	1574	1625
35°	1518	1577	1649
40°	1488	1581	1684
45°	1455	1594	1725
50°	1415	1603	1781
55°	1348	1629	1819
60°	1272	1647	1801
65°	1163	1640	1724
70°	1013	1562	1677
75°	829	1421	1539
80°	648	1204	1317
85°	451	800	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.1
10°-20°	160.2	8.9
20°-30°	245.2	13.6
30°-40°	301.2	16.7
40°-50°	323.1	18.0
50°-60°	306.2	17.0
60°-70°	239.3	13.3
70°-80°	136.1	7.6
80°-90°	31.8	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°	461.1	25.6
0°-40°	762.3	42.4
0°-60°	1391.6	77.4
0°-90°	1798.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	588	587	585	586	587	56
15°	566	566	566	568	570	160
25°	525	526	530	538	541	242
35°	462	467	480	495	502	289
45°	382	394	419	444	453	295
55°	287	313	347	378	388	257
65°	183	216	258	268	271	180
75°	80	119	137	147	148	87
85°	15	21	26	30	30	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.2	588.2	588.2	588.2	588.2
2.5°	590.1	588.2	586.8	587.5	588.2
5°	588.2	586.8	584.8	586.2	586.8
7.5°	584.8	583.5	582.2	583.5	584.2
10°	580.2	578.9	577.5	579.5	580.9
12.5°	574.2	572.9	572.2	574.9	576.2
15°	566.3	565.6	565.6	568.2	570.2
17.5°	558.3	557.6	558.9	562.3	563.6
20°	548.3	548.3	550.3	554.3	556.3
22.5°	537.0	537.7	541.0	546.3	549.0
25°	525.1	526.4	530.4	537.7	541.0
27.5°	509.8	512.5	519.1	527.7	532.4
30°	495.9	498.5	506.5	517.8	523.1
32.5°	479.3	483.9	493.2	506.5	512.5
35°	462.0	467.3	480.0	495.2	501.9
37.5°	444.8	450.1	466.0	483.3	491.2
40°	423.5	432.8	450.1	470.7	479.3
42.5°	404.9	413.6	434.8	457.4	466.7
45°	382.4	393.7	418.9	444.1	453.4
47.5°	359.8	373.7	402.3	429.5	440.1
50°	337.9	352.5	383.0	413.6	425.5
52.5°	314.0	331.9	365.8	397.6	408.9
55°	287.4	312.7	347.2	378.4	387.7
57.5°	261.6	288.1	327.3	357.1	361.8
60°	236.3	263.5	306.0	329.3	334.6
62.5°	208.4	239.6	283.5	302.0	306.0
65°	182.6	215.7	257.6	268.2	270.8
67.5°	155.3	190.5	227.7	238.3	241.0
70°	128.8	166.6	198.5	207.8	213.1
72.5°	103.6	142.1	166.6	176.6	179.2
75°	79.7	118.8	136.7	146.7	148.0
77.5°	60.4	92.9	108.2	116.2	117.5
80°	41.8	64.4	77.7	83.6	85.0
82.5°	26.6	41.2	49.8	54.4	54.4
85°	14.6	21.2	25.9	29.9	30.5
87.5°	5.3	6.6	8.6	13.3	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)