

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: P275506

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1883.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

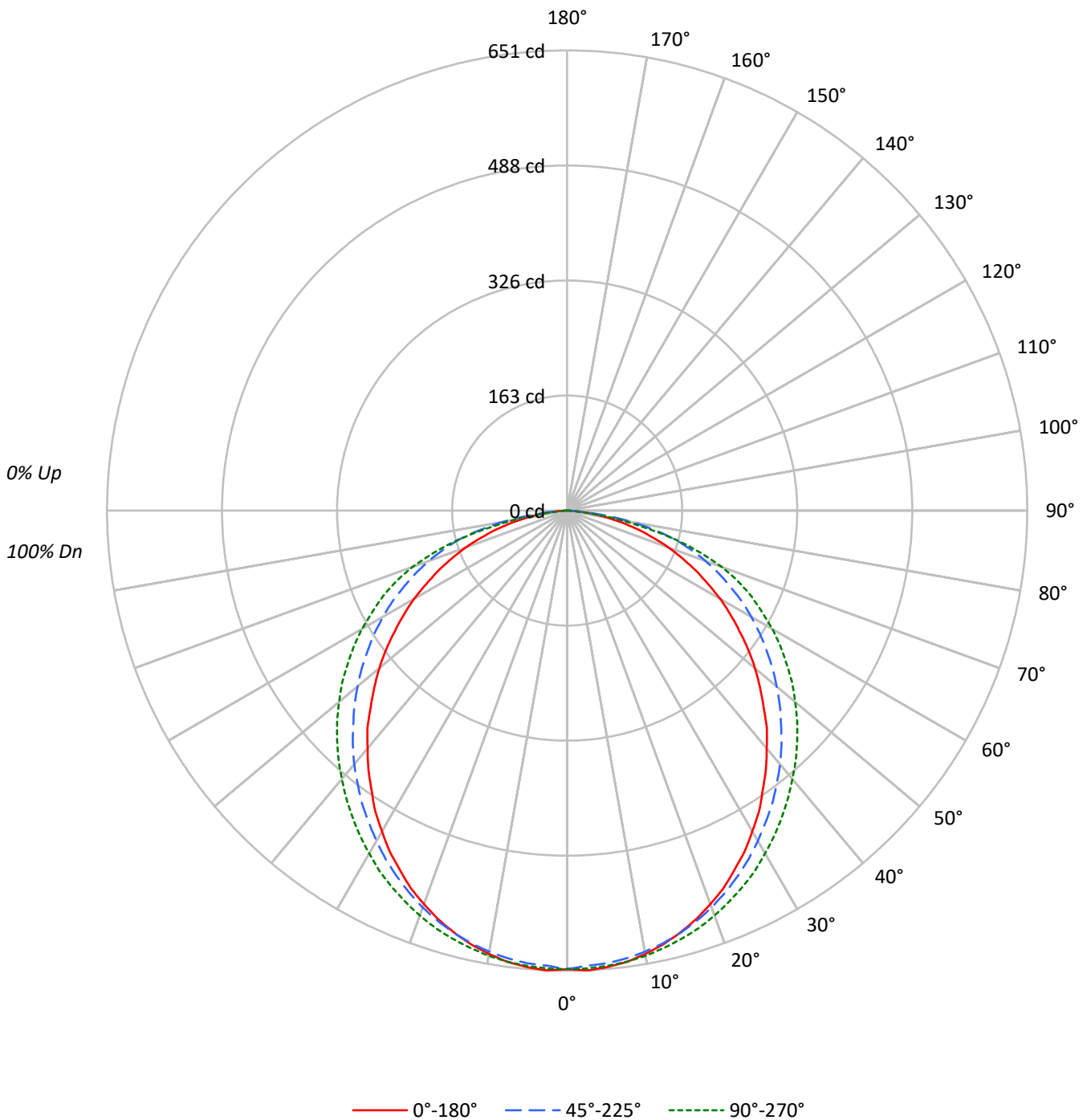
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	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	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1746	1746	1746
5°	1751	1736	1747
10°	1740	1731	1747
15°	1722	1723	1746
20°	1696	1711	1746
25°	1664	1694	1744
30°	1628	1676	1740
35°	1585	1662	1739
40°	1543	1646	1742
45°	1496	1628	1751
50°	1452	1621	1763
55°	1397	1615	1779
60°	1347	1618	1803
65°	1278	1623	1831
70°	1199	1635	1830
75°	1087	1650	1654
80°	891	1426	1178
85°	661	673	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.3
10°-20°	175.3	9.3
20°-30°	264.1	14.0
30°-40°	317.0	16.8
40°-50°	330.4	17.5
50°-60°	305.9	16.2
60°-70°	247.1	13.1
70°-80°	150.7	8.0
80°-90°	31.1	1.7
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°	500.9	26.6
0°-40°	817.9	43.4
0°-60°	1454.1	77.2
0°-90°	1883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	648	647	643	647	647	62
15°	618	618	618	627	627	174
25°	560	564	571	585	587	258
35°	482	490	506	524	530	302
45°	393	405	428	452	460	304
55°	298	313	344	371	379	267
65°	201	220	255	280	288	198
75°	104	128	159	161	159	110
85°	21	32	22	12	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.7	648.7	648.7	648.7	648.7
2.5°	651.2	649.1	644.5	649.1	648.3
5°	648.3	646.6	642.8	647.4	646.6
7.5°	644.1	642.4	639.0	644.5	643.7
10°	636.9	636.1	633.6	639.9	639.5
12.5°	628.5	628.1	626.9	634.0	633.6
15°	618.0	618.5	618.5	626.9	626.9
17.5°	606.3	607.1	608.8	618.0	619.3
20°	592.4	594.1	597.5	608.0	609.7
22.5°	578.2	579.4	584.5	597.1	598.7
25°	560.5	563.9	570.6	584.9	587.4
27.5°	543.7	546.7	555.9	570.6	574.8
30°	524.0	528.6	539.5	555.5	560.1
32.5°	505.1	510.1	522.7	541.2	545.4
35°	482.4	490.0	505.9	524.4	529.5
37.5°	461.9	469.0	487.0	507.2	513.1
40°	439.2	448.0	468.6	490.0	495.9
42.5°	418.2	426.6	448.8	470.7	478.7
45°	393.0	404.8	427.8	451.8	460.2
47.5°	369.9	381.7	408.1	433.7	441.3
50°	346.8	359.4	387.1	413.6	421.1
52.5°	322.9	336.3	366.1	392.6	401.4
55°	297.7	313.2	344.3	371.2	379.1
57.5°	273.8	289.7	322.9	350.2	358.1
60°	250.2	266.6	300.6	326.7	335.1
62.5°	224.2	243.5	278.8	304.4	310.7
65°	200.7	220.4	254.9	280.5	287.6
67.5°	175.9	197.3	231.8	255.3	262.0
70°	152.4	174.7	207.8	229.7	232.6
72.5°	127.2	149.9	183.5	197.3	197.3
75°	104.5	127.6	158.7	161.2	159.1
77.5°	79.8	105.4	125.5	120.5	115.5
80°	57.5	82.7	92.0	82.7	76.0
82.5°	38.6	60.0	55.4	44.1	39.0
85°	21.4	31.9	21.8	12.2	8.8
87.5°	8.0	7.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)