

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: P275505

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275505
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1836.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

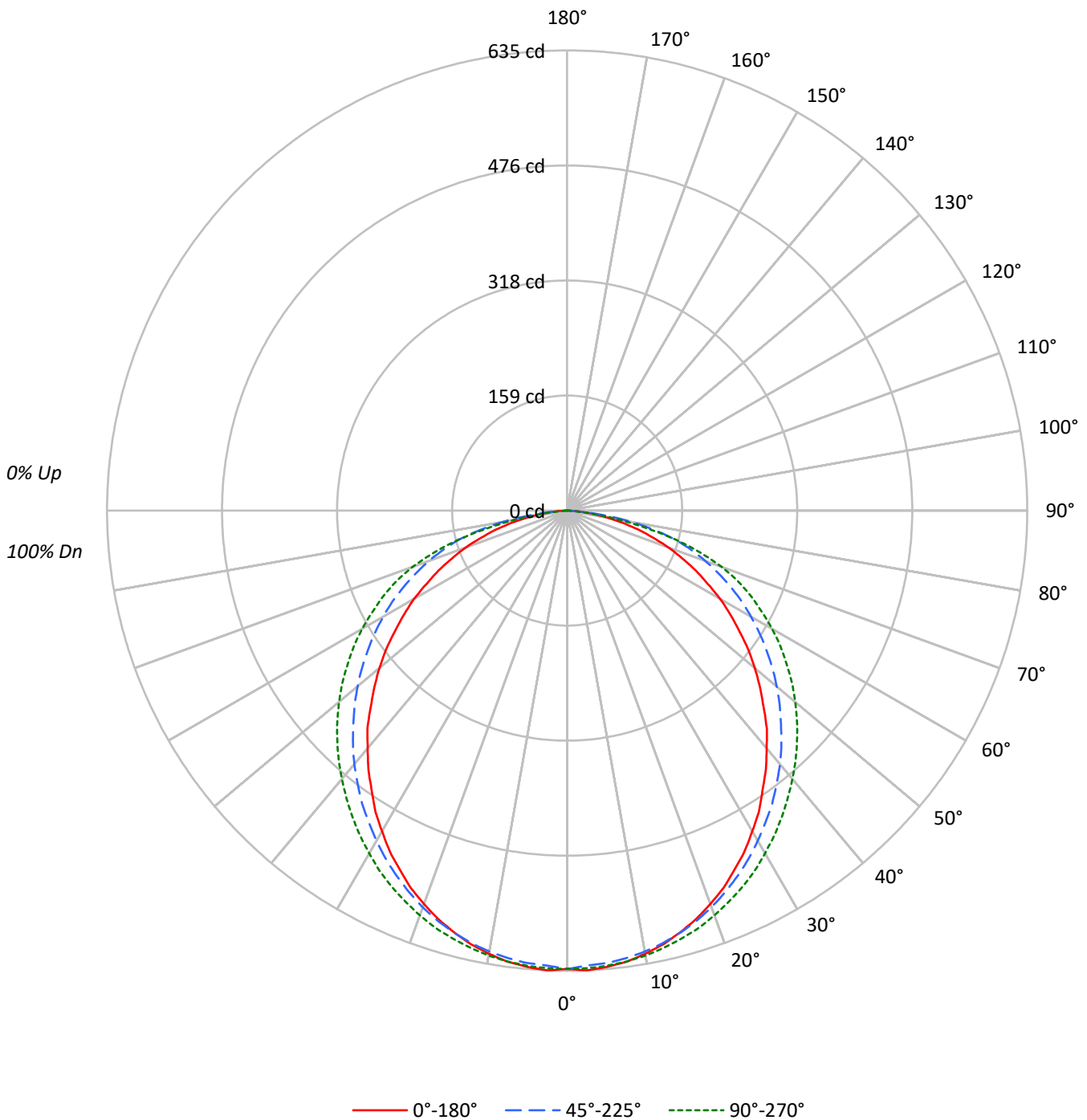
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1702	1702	1702
5°	1707	1693	1703
10°	1697	1688	1704
15°	1679	1680	1703
20°	1654	1668	1702
25°	1623	1652	1700
30°	1588	1635	1697
35°	1545	1621	1696
40°	1504	1605	1698
45°	1458	1588	1708
50°	1416	1580	1719
55°	1362	1575	1734
60°	1313	1577	1758
65°	1246	1582	1785
70°	1169	1594	1784
75°	1059	1608	1614
80°	869	1390	1148
85°	645	658	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.3
10°-20°	171.0	9.3
20°-30°	257.6	14.0
30°-40°	309.1	16.8
40°-50°	322.1	17.5
50°-60°	298.2	16.2
60°-70°	240.9	13.1
70°-80°	146.9	8.0
80°-90°	30.3	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°	488.4	26.6
0°-40°	797.4	43.4
0°-60°	1417.8	77.2
0°-90°	1836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	632	630	627	631	630	60
15°	603	603	603	611	611	170
25°	546	550	556	570	573	252
35°	470	478	493	511	516	295
45°	383	395	417	440	449	296
55°	290	305	336	362	370	260
65°	196	215	248	274	280	193
75°	102	124	155	157	155	107
85°	21	31	21	12	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.5	632.5	632.5	632.5	632.5
2.5°	635.0	632.9	628.4	632.9	632.1
5°	632.1	630.5	626.8	631.3	630.5
7.5°	628.0	626.4	623.1	628.4	627.6
10°	621.0	620.2	617.8	623.9	623.5
12.5°	612.9	612.4	611.2	618.2	617.8
15°	602.6	603.0	603.0	611.2	611.2
17.5°	591.2	592.0	593.6	602.6	603.9
20°	577.6	579.3	582.6	592.8	594.4
22.5°	563.7	565.0	569.9	582.2	583.8
25°	546.5	549.8	556.4	570.3	572.7
27.5°	530.2	533.0	542.0	556.4	560.5
30°	510.9	515.4	526.1	541.6	546.1
32.5°	492.5	497.4	509.7	527.7	531.8
35°	470.4	477.8	493.3	511.3	516.2
37.5°	450.3	457.3	474.9	494.5	500.3
40°	428.2	436.8	456.9	477.8	483.5
42.5°	407.8	415.9	437.6	458.9	466.7
45°	383.2	394.7	417.2	440.5	448.7
47.5°	360.7	372.1	397.9	422.9	430.3
50°	338.2	350.4	377.5	403.2	410.6
52.5°	314.8	327.9	357.0	382.8	391.4
55°	290.3	305.4	335.7	361.9	369.7
57.5°	266.9	282.5	314.8	341.4	349.2
60°	244.0	260.0	293.1	318.5	326.7
62.5°	218.6	237.4	271.8	296.8	302.9
65°	195.7	214.9	248.5	273.5	280.4
67.5°	171.5	192.4	226.0	248.9	255.5
70°	148.6	170.3	202.6	223.9	226.8
72.5°	124.0	146.2	178.9	192.4	192.4
75°	101.9	124.5	154.7	157.2	155.2
77.5°	77.8	102.8	122.4	117.5	112.6
80°	56.1	80.6	89.7	80.6	74.1
82.5°	37.7	58.5	54.0	43.0	38.1
85°	20.9	31.1	21.3	11.9	8.6
87.5°	7.8	7.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)