

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: P275672

Luminaire Tested: **14CZ2-20-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1797.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

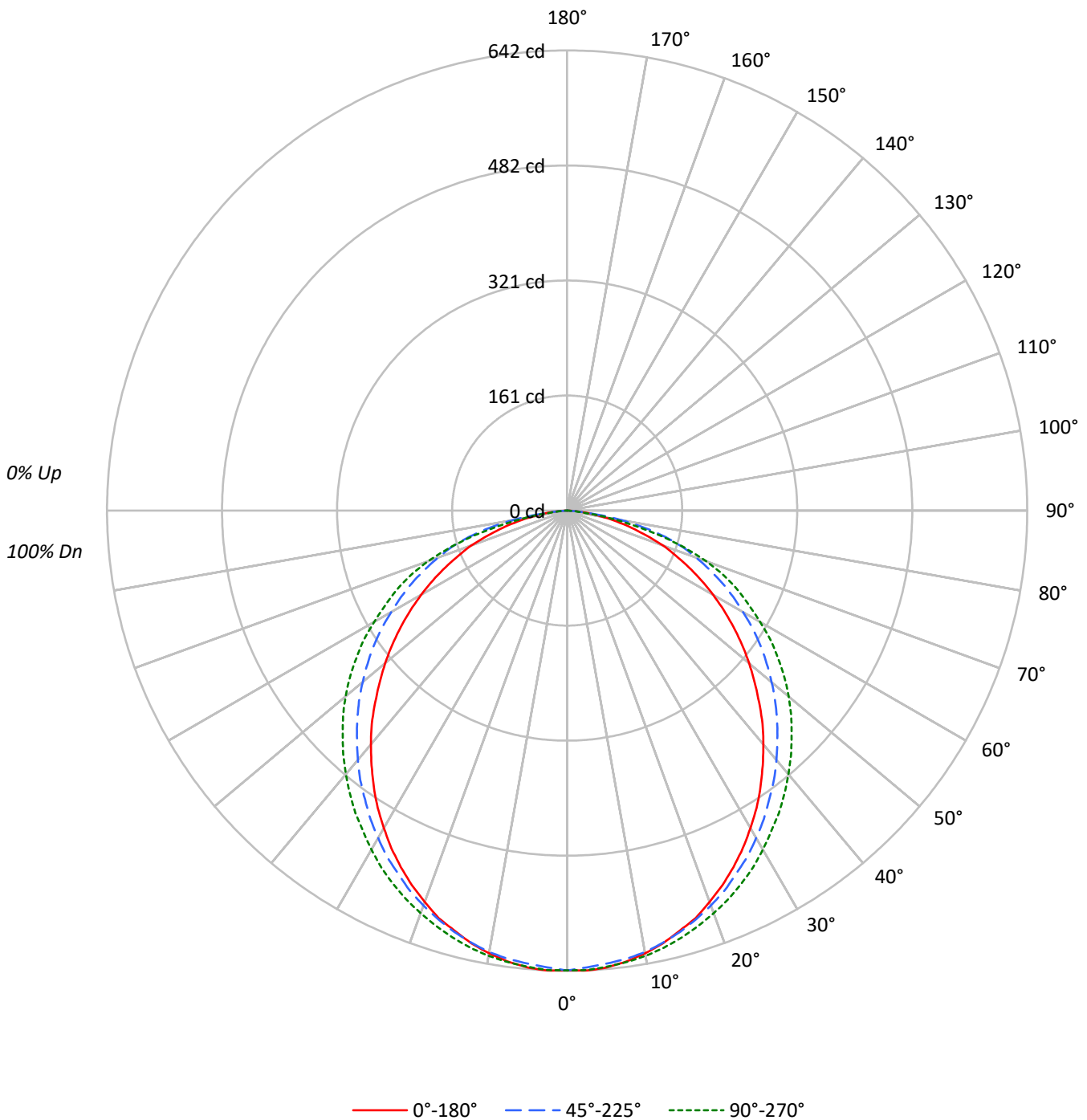
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275672

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275672

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3500K

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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1726	1726	1726
5°	1728	1714	1726
10°	1714	1709	1724
15°	1690	1695	1718
20°	1664	1679	1712
25°	1629	1659	1706
30°	1589	1639	1697
35°	1545	1616	1692
40°	1496	1596	1687
45°	1441	1577	1685
50°	1387	1559	1690
55°	1329	1547	1685
60°	1266	1525	1673
65°	1191	1521	1673
70°	1122	1507	1626
75°	973	1473	1389
80°	787	1187	925
85°	522	414	275



TEST NUMBER: P275672

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.4
10°-20°	172.4	9.6
20°-30°	258.6	14.4
30°-40°	308.4	17.2
40°-50°	318.9	17.7
50°-60°	291.1	16.2
60°-70°	229.1	12.7
70°-80°	133.4	7.4
80°-90°	24.6	1.4
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°	491.5	27.4
0°-40°	800.0	44.5
0°-60°	1410.0	78.5
0°-90°	1797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	640	638	634	640	639	61
15°	607	608	608	617	617	171
25°	549	552	559	572	575	253
35°	470	477	492	510	515	294
45°	379	391	414	438	443	292
55°	283	298	330	354	359	253
65°	187	207	239	258	263	186
75°	94	116	142	139	134	99
85°	17	24	13	11	9	22
90°	0	0	0	0	0	



TEST NUMBER: P275672

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.5	641.5	641.5	641.5	641.5
2.5°	642.4	640.6	637.9	642.4	641.5
5°	639.7	637.9	634.4	639.7	638.8
7.5°	634.4	632.6	630.8	636.2	635.3
10°	627.2	626.4	625.5	631.7	630.8
12.5°	618.3	618.3	617.4	624.6	624.6
15°	606.8	607.6	608.5	616.6	616.6
17.5°	596.1	595.2	597.8	606.8	607.6
20°	580.9	582.7	586.3	597.0	597.8
22.5°	565.8	567.5	573.8	584.5	587.1
25°	548.8	551.5	558.6	572.0	574.7
27.5°	531.0	534.6	544.4	558.6	561.3
30°	511.4	516.8	527.5	543.5	546.2
32.5°	491.8	497.2	510.5	526.6	530.1
35°	470.4	476.7	491.8	510.5	515.0
37.5°	448.2	456.2	474.0	492.7	498.1
40°	425.9	434.8	454.4	474.0	480.2
42.5°	403.6	412.5	433.9	456.2	462.4
45°	378.7	391.1	414.3	437.5	442.8
47.5°	354.6	368.0	393.8	417.0	424.1
50°	331.4	344.8	372.4	396.5	403.6
52.5°	307.4	321.6	351.0	376.0	382.2
55°	283.3	298.5	329.7	353.7	359.1
57.5°	259.3	275.3	307.4	330.6	336.8
60°	235.2	252.1	283.3	306.5	310.9
62.5°	211.2	229.0	261.1	281.5	286.0
65°	187.1	206.7	238.8	257.5	262.8
67.5°	163.9	183.5	214.7	232.5	237.0
70°	142.6	160.4	191.6	204.9	206.7
72.5°	115.8	138.1	168.4	175.5	171.1
75°	93.6	115.8	141.7	139.0	133.6
77.5°	71.3	93.6	110.5	101.6	94.4
80°	50.8	73.1	76.6	63.3	59.7
82.5°	33.0	50.8	42.8	33.0	26.7
85°	16.9	24.1	13.4	10.7	8.9
87.5°	5.3	3.6	1.8	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)