

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: P275671

Luminaire Tested: **14CZ2-20-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275671
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1712.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

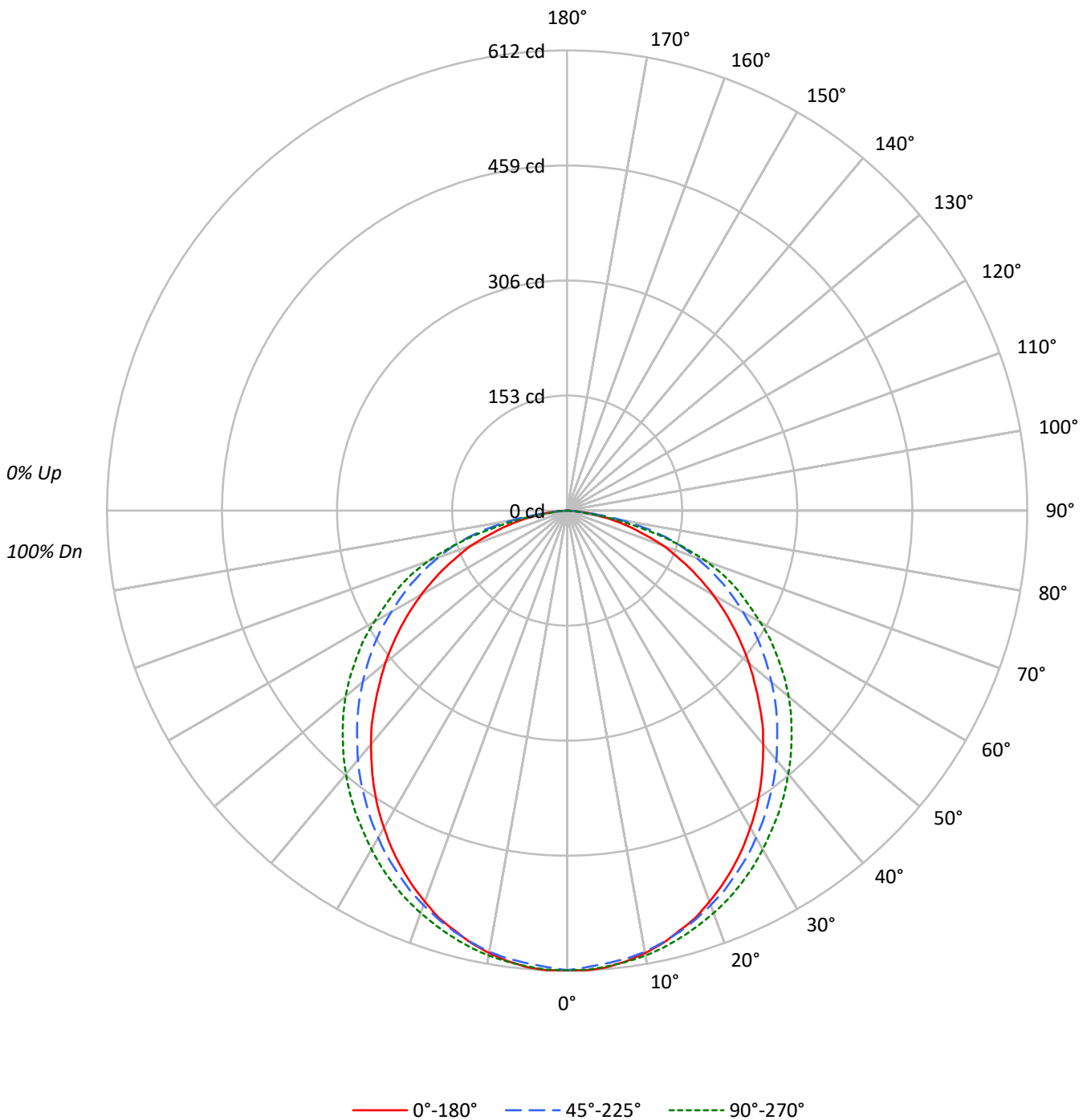
Input Watts (W): 15.159
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275671

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P275671

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3000K

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°	1645	1645	1645
5°	1646	1633	1644
10°	1633	1628	1642
15°	1611	1615	1636
20°	1585	1599	1631
25°	1553	1580	1626
30°	1514	1561	1617
35°	1472	1539	1612
40°	1425	1521	1607
45°	1373	1502	1606
50°	1322	1485	1610
55°	1266	1474	1605
60°	1206	1453	1594
65°	1135	1449	1594
70°	1068	1436	1549
75°	926	1404	1324
80°	750	1131	882
85°	497	392	262



TEST NUMBER: P275671

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.4
10°-20°	164.2	9.6
20°-30°	246.3	14.4
30°-40°	293.9	17.2
40°-50°	303.8	17.7
50°-60°	277.4	16.2
60°-70°	218.3	12.7
70°-80°	127.1	7.4
80°-90°	23.4	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°	468.3	27.4
0°-40°	762.1	44.5
0°-60°	1343.3	78.5
0°-90°	1712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	610	608	604	610	609	58
15°	578	579	580	587	587	163
25°	523	525	532	545	548	241
35°	448	454	469	486	491	280
45°	361	373	395	417	422	279
55°	270	284	314	337	342	241
65°	178	197	228	245	250	177
75°	89	110	135	132	127	95
85°	16	23	13	10	8	21
90°	0	0	0	0	0	



TEST NUMBER: P275671

CATALOG NUMBER: 14CZ2-20-S-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.2	611.2	611.2	611.2	611.2
2.5°	612.0	610.3	607.8	612.0	611.2
5°	609.5	607.8	604.4	609.5	608.6
7.5°	604.4	602.7	601.0	606.1	605.2
10°	597.6	596.7	595.9	601.8	601.0
12.5°	589.1	589.1	588.2	595.0	595.0
15°	578.1	578.9	579.7	587.4	587.4
17.5°	567.9	567.0	569.6	578.1	578.9
20°	553.4	555.1	558.5	568.7	569.6
22.5°	539.0	540.7	546.6	556.8	559.4
25°	522.9	525.4	532.2	544.9	547.5
27.5°	505.9	509.3	518.6	532.2	534.8
30°	487.2	492.3	502.5	517.8	520.3
32.5°	468.6	473.6	486.4	501.7	505.1
35°	448.2	454.1	468.6	486.4	490.6
37.5°	427.0	434.6	451.6	469.4	474.5
40°	405.7	414.2	432.9	451.6	457.5
42.5°	384.5	393.0	413.4	434.6	440.5
45°	360.8	372.6	394.7	416.8	421.9
47.5°	337.8	350.6	375.2	397.3	404.0
50°	315.8	328.5	354.8	377.7	384.5
52.5°	292.8	306.4	334.4	358.2	364.1
55°	269.9	284.4	314.1	337.0	342.1
57.5°	247.0	262.3	292.8	314.9	320.9
60°	224.1	240.2	269.9	292.0	296.2
62.5°	201.2	218.1	248.7	268.2	272.5
65°	178.3	196.9	227.5	245.3	250.4
67.5°	156.2	174.9	204.6	221.5	225.8
70°	135.8	152.8	182.5	195.2	196.9
72.5°	110.3	131.6	160.4	167.2	163.0
75°	89.1	110.3	135.0	132.4	127.3
77.5°	67.9	89.1	105.3	96.8	90.0
80°	48.4	69.6	73.0	60.3	56.9
82.5°	31.4	48.4	40.7	31.4	25.5
85°	16.1	22.9	12.7	10.2	8.5
87.5°	5.1	3.4	1.7	1.7	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)