

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: P275804

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1817.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

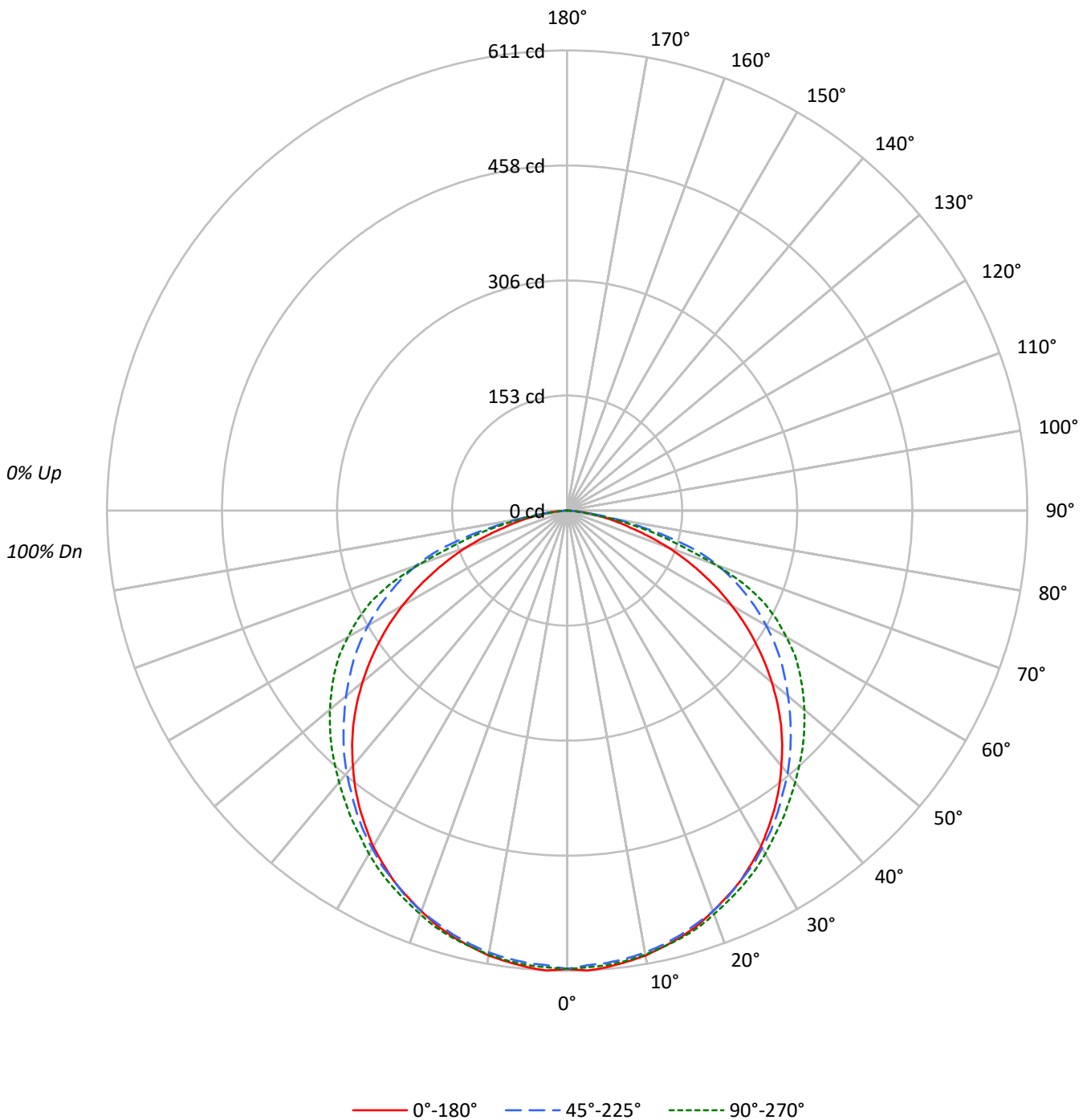
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275804

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275804

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L82765-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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1638	1638	1638
5°	1644	1629	1636
10°	1639	1628	1636
15°	1632	1624	1636
20°	1621	1621	1633
25°	1613	1613	1634
30°	1600	1609	1635
35°	1580	1603	1640
40°	1555	1600	1655
45°	1528	1598	1684
50°	1485	1603	1722
55°	1431	1624	1770
60°	1359	1641	1809
65°	1256	1662	1834
70°	1116	1674	1640
75°	899	1504	1313
80°	704	1055	857
85°	482	306	219



TEST NUMBER: P275804

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.2
10°-20°	165.3	9.1
20°-30°	251.6	13.8
30°-40°	306.5	16.9
40°-50°	325.2	17.9
50°-60°	306.9	16.9
60°-70°	247.8	13.6
70°-80°	134.4	7.4
80°-90°	21.7	1.2
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°	474.5	26.1
0°-40°	781.0	43.0
0°-60°	1413.1	77.8
0°-90°	1817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	609	607	603	607	606	58
15°	586	584	583	587	587	165
25°	543	542	543	549	550	250
35°	481	484	488	498	499	301
45°	402	407	420	436	443	309
55°	305	318	346	369	377	272
65°	197	221	261	282	288	195
75°	86	126	145	130	126	95
85°	16	17	10	8	7	20
90°	0	0	0	0	0	



TEST NUMBER: P275804

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.6	608.6	608.6	608.6	608.6
2.5°	611.4	608.6	604.3	608.6	607.1
5°	608.6	607.1	602.9	607.1	605.7
7.5°	604.3	604.3	600.0	602.9	602.9
10°	600.0	598.6	595.8	600.0	598.6
12.5°	593.0	591.5	590.1	594.4	593.0
15°	585.9	584.4	583.0	587.3	587.3
17.5°	577.4	575.9	574.5	580.2	580.2
20°	566.0	566.0	566.0	571.7	570.3
22.5°	554.7	554.7	556.1	561.7	560.3
25°	543.3	541.9	543.3	549.0	550.4
27.5°	529.1	530.5	532.0	537.6	539.1
30°	514.9	516.4	517.8	524.9	526.3
32.5°	497.9	500.7	503.6	512.1	512.1
35°	480.9	483.7	488.0	497.9	499.3
37.5°	462.4	465.3	471.0	482.3	485.1
40°	442.6	446.8	455.4	466.7	471.0
42.5°	422.7	428.4	438.3	451.1	456.8
45°	401.5	407.1	419.9	435.5	442.6
47.5°	378.8	385.8	401.5	421.3	427.0
50°	354.6	364.6	383.0	404.3	411.4
52.5°	330.5	341.9	364.6	387.3	394.4
55°	305.0	317.8	346.1	368.8	377.3
57.5°	279.5	293.6	326.3	350.4	358.9
60°	252.5	269.5	305.0	329.1	336.2
62.5°	225.6	245.4	283.7	307.8	313.5
65°	197.2	221.3	261.0	282.3	288.0
67.5°	170.2	198.6	238.3	253.9	253.9
70°	141.9	173.1	212.8	217.0	208.5
72.5°	113.5	148.9	184.4	168.8	161.7
75°	86.5	126.3	144.7	130.5	126.3
77.5°	65.3	102.1	102.1	93.6	90.8
80°	45.4	78.0	68.1	59.6	55.3
82.5°	29.8	44.0	35.5	28.4	24.1
85°	15.6	17.0	9.9	8.5	7.1
87.5°	5.7	2.8	1.4	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)