

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: P275810

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275810
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1945.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

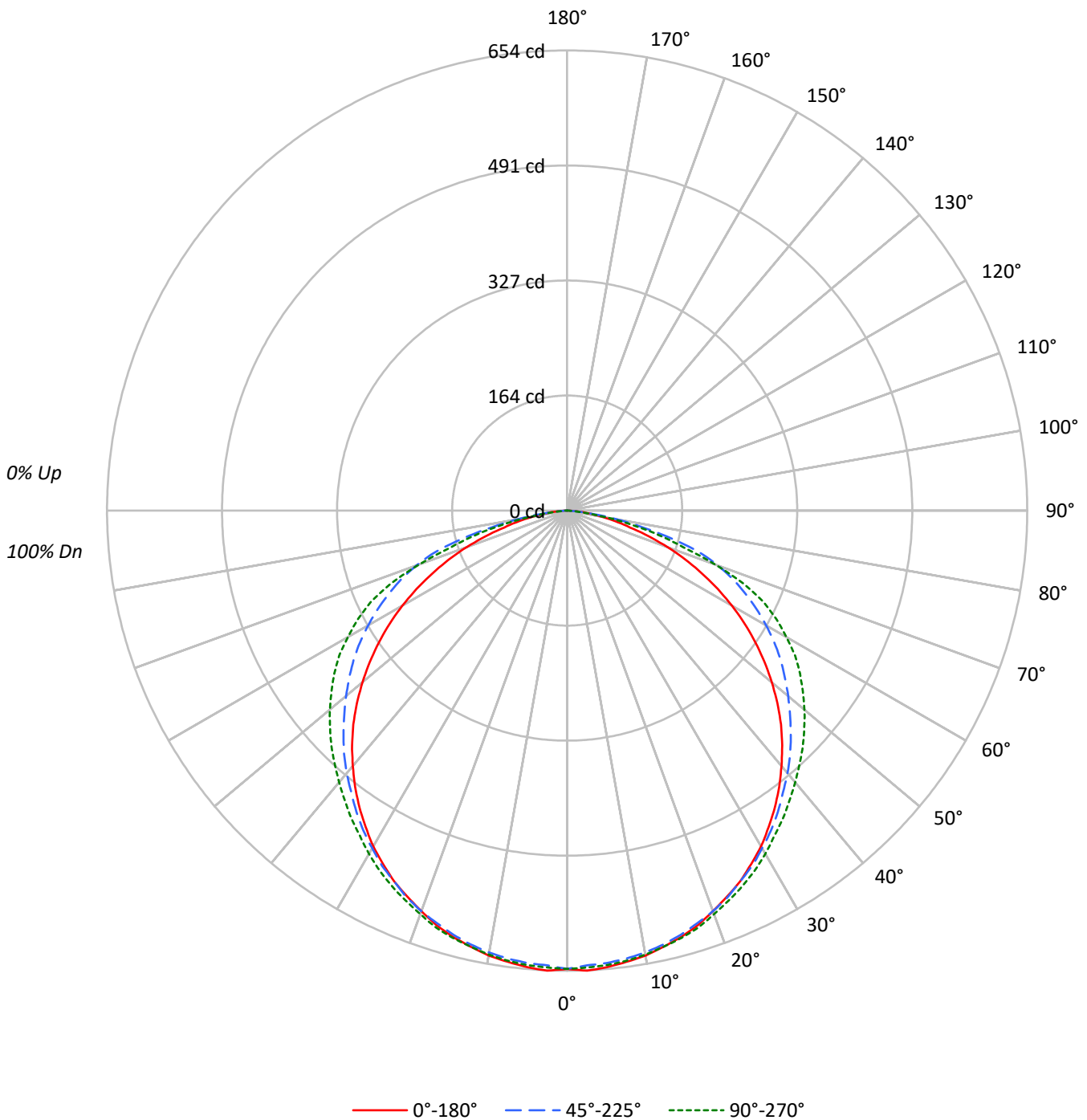
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1753	1753	1753
5°	1760	1743	1751
10°	1755	1743	1751
15°	1747	1739	1751
20°	1735	1735	1748
25°	1727	1727	1749
30°	1713	1722	1751
35°	1691	1716	1756
40°	1664	1712	1771
45°	1635	1711	1803
50°	1589	1716	1844
55°	1532	1738	1895
60°	1455	1757	1937
65°	1344	1779	1963
70°	1194	1792	1756
75°	963	1611	1405
80°	753	1130	917
85°	516	327	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	3.2
10°-20°	176.9	9.1
20°-30°	269.4	13.8
30°-40°	328.1	16.9
40°-50°	348.1	17.9
50°-60°	328.5	16.9
60°-70°	265.2	13.6
70°-80°	143.9	7.4
80°-90°	23.3	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°	507.9	26.1
0°-40°	836.0	43.0
0°-60°	1512.6	77.8
0°-90°	1945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	651	650	645	650	648	62
15°	627	626	624	629	629	177
25°	582	580	582	588	589	268
35°	515	518	522	533	534	322
45°	430	436	450	466	474	331
55°	326	340	370	395	404	292
65°	211	237	279	302	308	209
75°	93	135	155	140	135	101
85°	17	18	11	9	8	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.4	651.4	651.4	651.4	651.4
2.5°	654.5	651.4	646.9	651.4	649.9
5°	651.4	649.9	645.4	649.9	648.4
7.5°	646.9	646.9	642.3	645.4	645.4
10°	642.3	640.8	637.8	642.3	640.8
12.5°	634.7	633.2	631.7	636.2	634.7
15°	627.1	625.6	624.1	628.7	628.7
17.5°	618.0	616.5	615.0	621.1	621.1
20°	605.9	605.9	605.9	611.9	610.4
22.5°	593.7	593.7	595.2	601.3	599.8
25°	581.6	580.1	581.6	587.7	589.2
27.5°	566.4	567.9	569.4	575.5	577.0
30°	551.2	552.7	554.2	561.8	563.4
32.5°	533.0	536.0	539.1	548.2	548.2
35°	514.8	517.8	522.4	533.0	534.5
37.5°	495.0	498.1	504.1	516.3	519.3
40°	473.8	478.3	487.4	499.6	504.1
42.5°	452.5	458.6	469.2	482.9	489.0
45°	429.7	435.8	449.5	466.2	473.8
47.5°	405.4	413.0	429.7	451.0	457.1
50°	379.6	390.3	410.0	432.8	440.4
52.5°	353.8	366.0	390.3	414.5	422.1
55°	326.5	340.1	370.5	394.8	403.9
57.5°	299.1	314.3	349.3	375.1	384.2
60°	270.3	288.5	326.5	352.3	359.9
62.5°	241.4	262.7	303.7	329.5	335.6
65°	211.1	236.9	279.4	302.2	308.3
67.5°	182.2	212.6	255.1	271.8	271.8
70°	151.8	185.3	227.8	232.3	223.2
72.5°	121.5	159.4	197.4	180.7	173.1
75°	92.6	135.1	154.9	139.7	135.1
77.5°	69.9	109.3	109.3	100.2	97.2
80°	48.6	83.5	72.9	63.8	59.2
82.5°	31.9	47.1	38.0	30.4	25.8
85°	16.7	18.2	10.6	9.1	7.6
87.5°	6.1	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)