

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: P275806

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275806
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1890.0 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

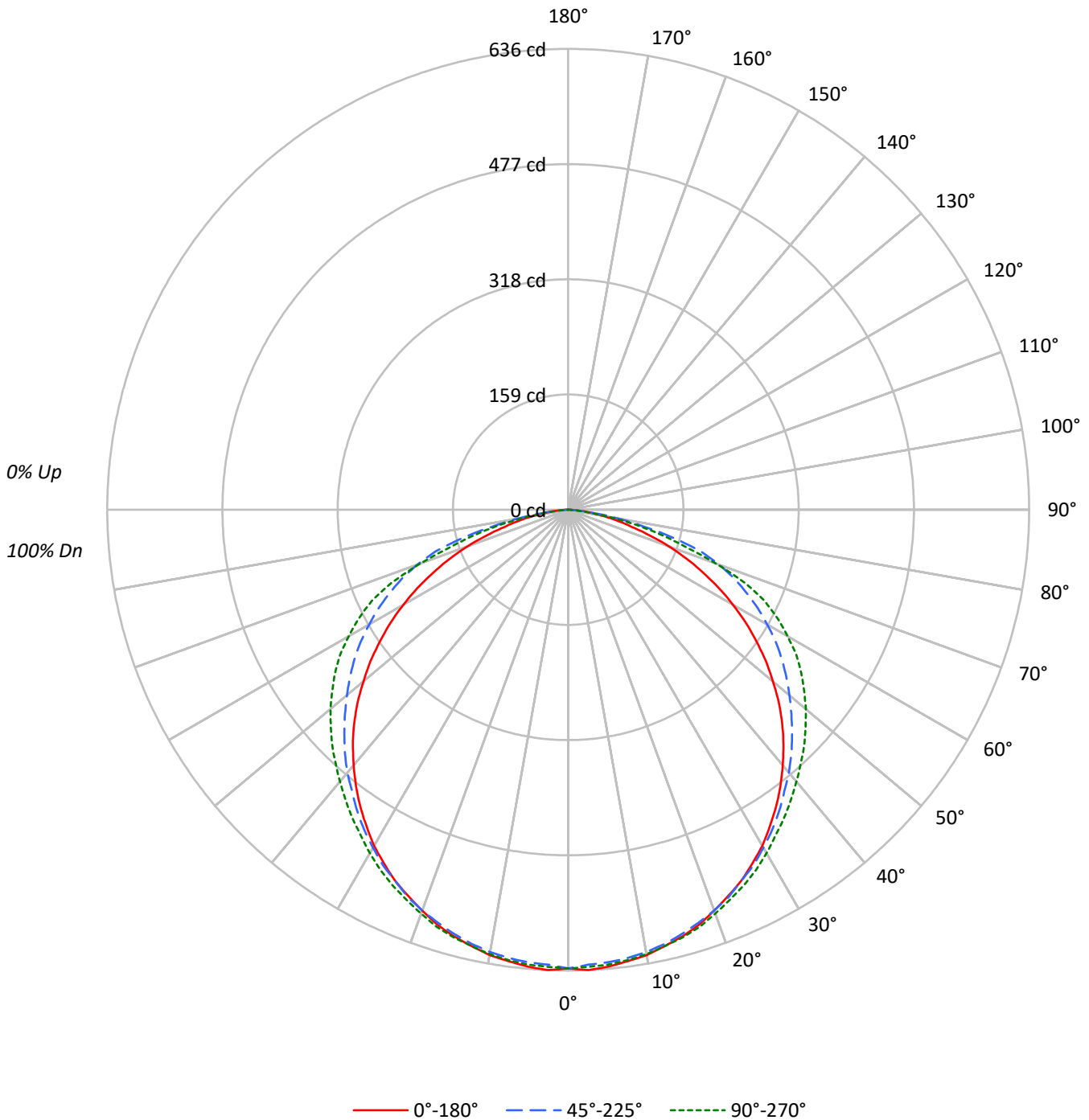
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1703	1703	1703
5°	1710	1694	1702
10°	1706	1693	1702
15°	1698	1689	1702
20°	1686	1686	1699
25°	1678	1678	1700
30°	1664	1674	1701
35°	1643	1668	1706
40°	1617	1664	1721
45°	1589	1662	1752
50°	1544	1668	1791
55°	1488	1689	1841
60°	1413	1707	1882
65°	1306	1729	1907
70°	1161	1741	1707
75°	936	1565	1365
80°	731	1097	891
85°	500	318	228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.2
10°-20°	171.9	9.1
20°-30°	261.7	13.8
30°-40°	318.8	16.9
40°-50°	338.2	17.9
50°-60°	319.2	16.9
60°-70°	257.7	13.6
70°-80°	139.8	7.4
80°-90°	22.6	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°	493.6	26.1
0°-40°	812.4	43.0
0°-60°	1469.8	77.8
0°-90°	1890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	633	632	627	632	630	60
15°	609	608	606	611	611	172
25°	565	564	565	571	572	260
35°	500	503	508	518	519	313
45°	418	424	437	453	460	322
55°	317	330	360	384	392	283
65°	205	230	272	294	300	203
75°	90	131	150	136	131	98
85°	16	18	10	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.0	633.0	633.0	633.0	633.0
2.5°	636.0	633.0	628.6	633.0	631.5
5°	633.0	631.5	627.1	631.5	630.1
7.5°	628.6	628.6	624.2	627.1	627.1
10°	624.2	622.7	619.7	624.2	622.7
12.5°	616.8	615.3	613.8	618.3	616.8
15°	609.4	607.9	606.4	610.9	610.9
17.5°	600.5	599.1	597.6	603.5	603.5
20°	588.7	588.7	588.7	594.6	593.2
22.5°	576.9	576.9	578.4	584.3	582.8
25°	565.1	563.7	565.1	571.0	572.5
27.5°	550.4	551.9	553.3	559.2	560.7
30°	535.6	537.1	538.6	546.0	547.4
32.5°	517.9	520.9	523.8	532.7	532.7
35°	500.2	503.2	507.6	517.9	519.4
37.5°	481.0	484.0	489.9	501.7	504.6
40°	460.4	464.8	473.7	485.5	489.9
42.5°	439.7	445.6	455.9	469.2	475.1
45°	417.6	423.5	436.8	453.0	460.4
47.5°	394.0	401.3	417.6	438.2	444.1
50°	368.9	379.2	398.4	420.5	427.9
52.5°	343.8	355.6	379.2	402.8	410.2
55°	317.2	330.5	360.0	383.6	392.5
57.5°	290.7	305.4	339.4	364.5	373.3
60°	262.6	280.4	317.2	342.3	349.7
62.5°	234.6	255.3	295.1	320.2	326.1
65°	205.1	230.2	271.5	293.6	299.5
67.5°	177.1	206.6	247.9	264.1	264.1
70°	147.6	180.0	221.3	225.8	216.9
72.5°	118.0	154.9	191.8	175.6	168.2
75°	90.0	131.3	150.5	135.8	131.3
77.5°	67.9	106.2	106.2	97.4	94.4
80°	47.2	81.2	70.8	62.0	57.5
82.5°	31.0	45.7	36.9	29.5	25.1
85°	16.2	17.7	10.3	8.9	7.4
87.5°	5.9	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)