

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: P275528

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2751.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

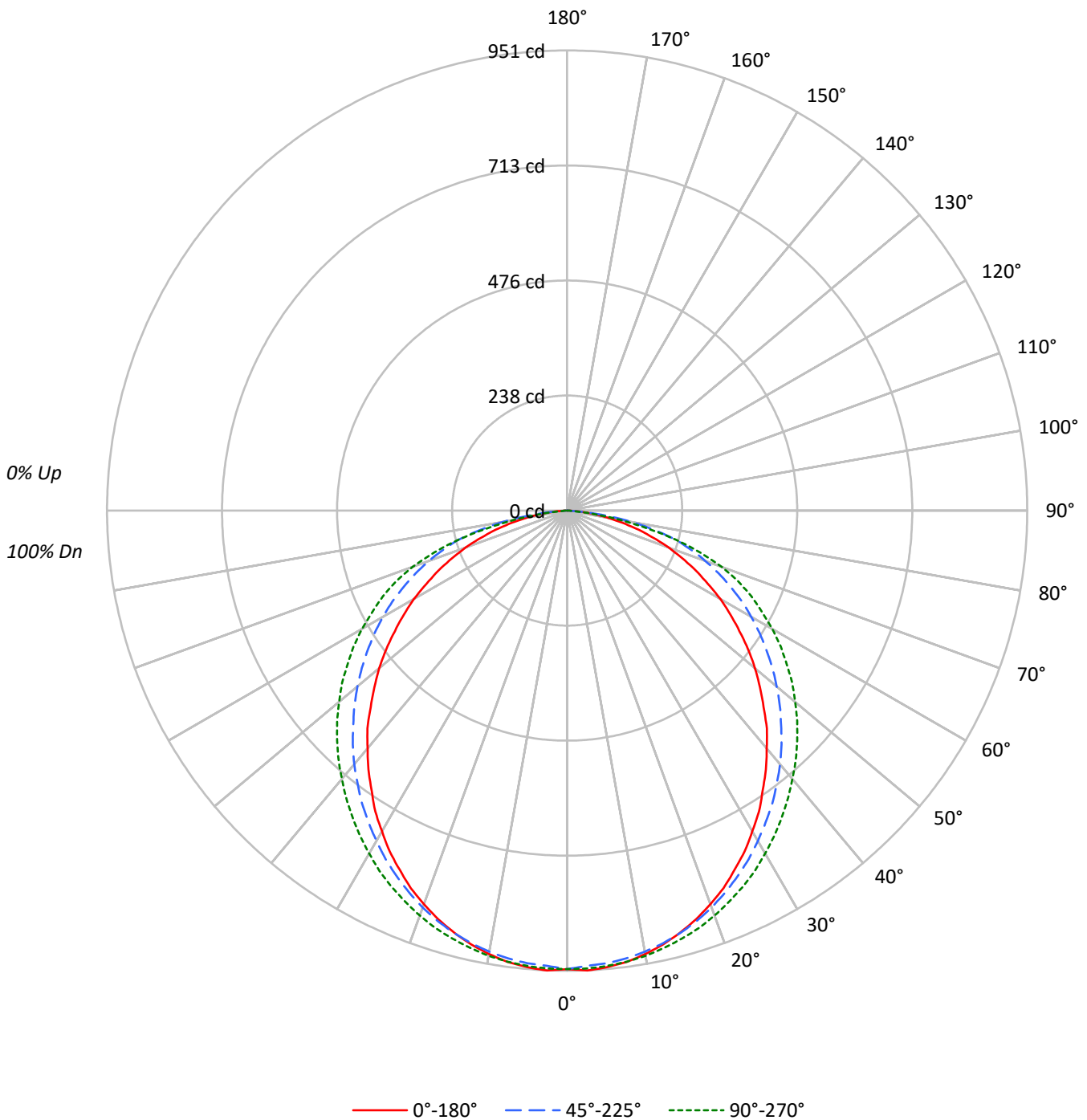
Input Watts (W): 23.157  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275528

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P275528

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-6500K

**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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2550	2550	2550
5°	2558	2537	2552
10°	2543	2529	2553
15°	2515	2517	2551
20°	2479	2500	2551
25°	2431	2475	2548
30°	2379	2449	2543
35°	2315	2428	2541
40°	2254	2405	2545
45°	2185	2379	2559
50°	2121	2368	2576
55°	2040	2360	2599
60°	1968	2364	2634
65°	1867	2371	2676
70°	1752	2389	2674
75°	1588	2411	2417
80°	1302	2081	1720
85°	966	985	398



TEST NUMBER: P275528

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	3.3
10°-20°	256.2	9.3
20°-30°	385.9	14.0
30°-40°	463.1	16.8
40°-50°	482.7	17.5
50°-60°	446.8	16.2
60°-70°	361.0	13.1
70°-80°	220.1	8.0
80°-90°	45.4	1.7
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°	731.8	26.6
0°-40°	1194.9	43.4
0°-60°	2124.4	77.2
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	939	946	945	90
15°	903	904	904	916	916	255
25°	819	824	834	854	858	377
35°	705	716	739	766	774	442
45°	574	591	625	660	672	444
55°	435	458	503	542	554	390
65°	293	322	372	410	420	290
75°	153	186	232	236	232	160
85°	31	47	32	18	13	38
90°	0	0	0	0	0	



TEST NUMBER: P275528

CATALOG NUMBER: 14CZ2-29-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	947.7	947.7	947.7	947.7	947.7
2.5°	951.4	948.3	941.6	948.3	947.1
5°	947.1	944.7	939.1	945.9	944.7
7.5°	941.0	938.5	933.6	941.6	940.4
10°	930.6	929.3	925.6	934.8	934.2
12.5°	918.3	917.7	915.8	926.3	925.6
15°	902.9	903.6	903.6	915.8	915.8
17.5°	885.8	887.0	889.5	902.9	904.8
20°	865.5	868.0	872.9	888.2	890.7
22.5°	844.7	846.5	853.9	872.3	874.7
25°	818.9	823.8	833.6	854.5	858.2
27.5°	794.4	798.7	812.2	833.6	839.8
30°	765.5	772.3	788.2	811.6	818.3
32.5°	737.9	745.3	763.7	790.7	796.8
35°	704.8	715.9	739.2	766.2	773.5
37.5°	674.8	685.2	711.6	741.0	749.6
40°	641.6	654.5	684.6	715.9	724.4
42.5°	611.0	623.2	655.7	687.6	699.3
45°	574.2	591.3	625.1	660.0	672.3
47.5°	540.4	557.6	596.2	633.7	644.7
50°	506.7	525.1	565.6	604.2	615.3
52.5°	471.7	491.3	534.9	573.5	586.4
55°	434.9	457.6	503.0	542.3	553.9
57.5°	399.9	423.3	471.7	511.6	523.2
60°	365.6	389.5	439.2	477.2	489.5
62.5°	327.6	355.8	407.3	444.7	453.9
65°	293.2	322.0	372.3	409.8	420.2
67.5°	257.0	288.3	338.6	373.0	382.8
70°	222.7	255.2	303.6	335.5	339.8
72.5°	185.9	219.0	268.1	288.3	288.3
75°	152.7	186.5	231.9	235.6	232.5
77.5°	116.5	154.0	183.4	176.1	168.7
80°	84.0	120.8	134.3	120.8	111.0
82.5°	56.4	87.7	81.0	64.4	57.0
85°	31.3	46.6	31.9	17.8	12.9
87.5°	11.7	10.4	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)