

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: P275513

Luminaire Tested: **14CZ2-25-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275513  
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: 14CZ2-25-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2076.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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

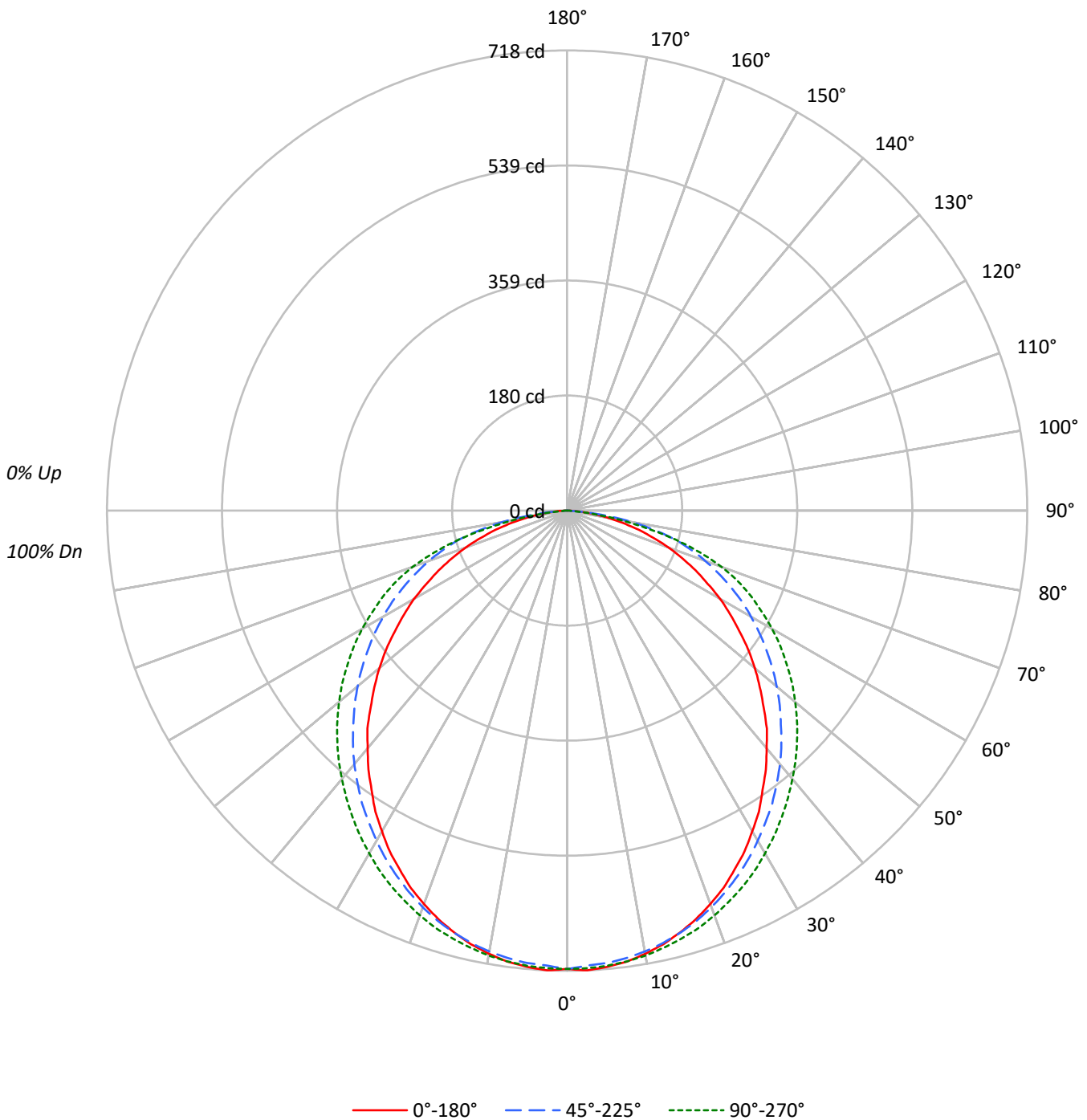
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275513

CATALOG NUMBER: 14CZ2-25-UNV-L92765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P275513

CATALOG NUMBER: 14CZ2-25-UNV-L92765-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	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°	1925	1925	1925
5°	1931	1914	1926
10°	1919	1909	1926
15°	1898	1900	1925
20°	1871	1886	1925
25°	1835	1868	1923
30°	1795	1848	1919
35°	1747	1832	1918
40°	1701	1815	1920
45°	1649	1795	1931
50°	1601	1787	1944
55°	1540	1781	1961
60°	1485	1784	1988
65°	1409	1789	2019
70°	1322	1803	2017
75°	1199	1820	1824
80°	982	1571	1299
85°	729	744	299



TEST NUMBER: P275513

CATALOG NUMBER: 14CZ2-25-UNV-L92765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.3
10°-20°	193.3	9.3
20°-30°	291.2	14.0
30°-40°	349.5	16.8
40°-50°	364.2	17.5
50°-60°	337.2	16.2
60°-70°	272.4	13.1
70°-80°	166.1	8.0
80°-90°	34.3	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°	552.2	26.6
0°-40°	901.7	43.4
0°-60°	1603.1	77.2
0°-90°	2076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	715	713	709	714	713	68
15°	681	682	682	691	691	192
25°	618	622	629	645	648	285
35°	532	540	558	578	584	333
45°	433	446	472	498	507	335
55°	328	345	380	409	418	294
65°	221	243	281	309	317	219
75°	115	141	175	178	175	121
85°	24	35	24	13	10	29
90°	0	0	0	0	0	



TEST NUMBER: P275513

CATALOG NUMBER: 14CZ2-25-UNV-L92765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.2	715.2	715.2	715.2	715.2
2.5°	718.0	715.7	710.6	715.7	714.7
5°	714.7	712.9	708.7	713.8	712.9
7.5°	710.1	708.2	704.5	710.6	709.6
10°	702.2	701.3	698.5	705.5	705.0
12.5°	693.0	692.5	691.1	699.0	698.5
15°	681.4	681.9	681.9	691.1	691.1
17.5°	668.4	669.4	671.2	681.4	682.8
20°	653.2	655.0	658.7	670.3	672.1
22.5°	637.4	638.8	644.4	658.3	660.1
25°	618.0	621.7	629.1	644.8	647.6
27.5°	599.5	602.7	612.9	629.1	633.7
30°	577.7	582.8	594.8	612.4	617.5
32.5°	556.9	562.4	576.3	596.7	601.3
35°	531.9	540.2	557.8	578.2	583.7
37.5°	509.2	517.1	537.0	559.2	565.7
40°	484.2	493.9	516.6	540.2	546.7
42.5°	461.1	470.3	494.8	518.9	527.7
45°	433.3	446.2	471.7	498.1	507.3
47.5°	407.8	420.8	449.9	478.2	486.5
50°	382.4	396.2	426.8	456.0	464.3
52.5°	356.0	370.8	403.7	432.8	442.5
55°	328.2	345.3	379.6	409.2	418.0
57.5°	301.8	319.4	356.0	386.1	394.9
60°	275.9	293.9	331.4	360.1	369.4
62.5°	247.2	268.5	307.4	335.6	342.5
65°	221.3	243.0	281.0	309.2	317.1
67.5°	194.0	217.6	255.5	281.4	288.9
70°	168.0	192.6	229.1	253.2	256.4
72.5°	140.3	165.3	202.3	217.6	217.6
75°	115.3	140.7	175.0	177.8	175.4
77.5°	88.0	116.2	138.4	132.9	127.3
80°	63.4	91.2	101.4	91.2	83.8
82.5°	42.6	66.2	61.1	48.6	43.1
85°	23.6	35.2	24.1	13.4	9.7
87.5°	8.8	7.9	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)