

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: P275519

Luminaire Tested: **14CZ2-25-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275519  
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-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: 2302.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

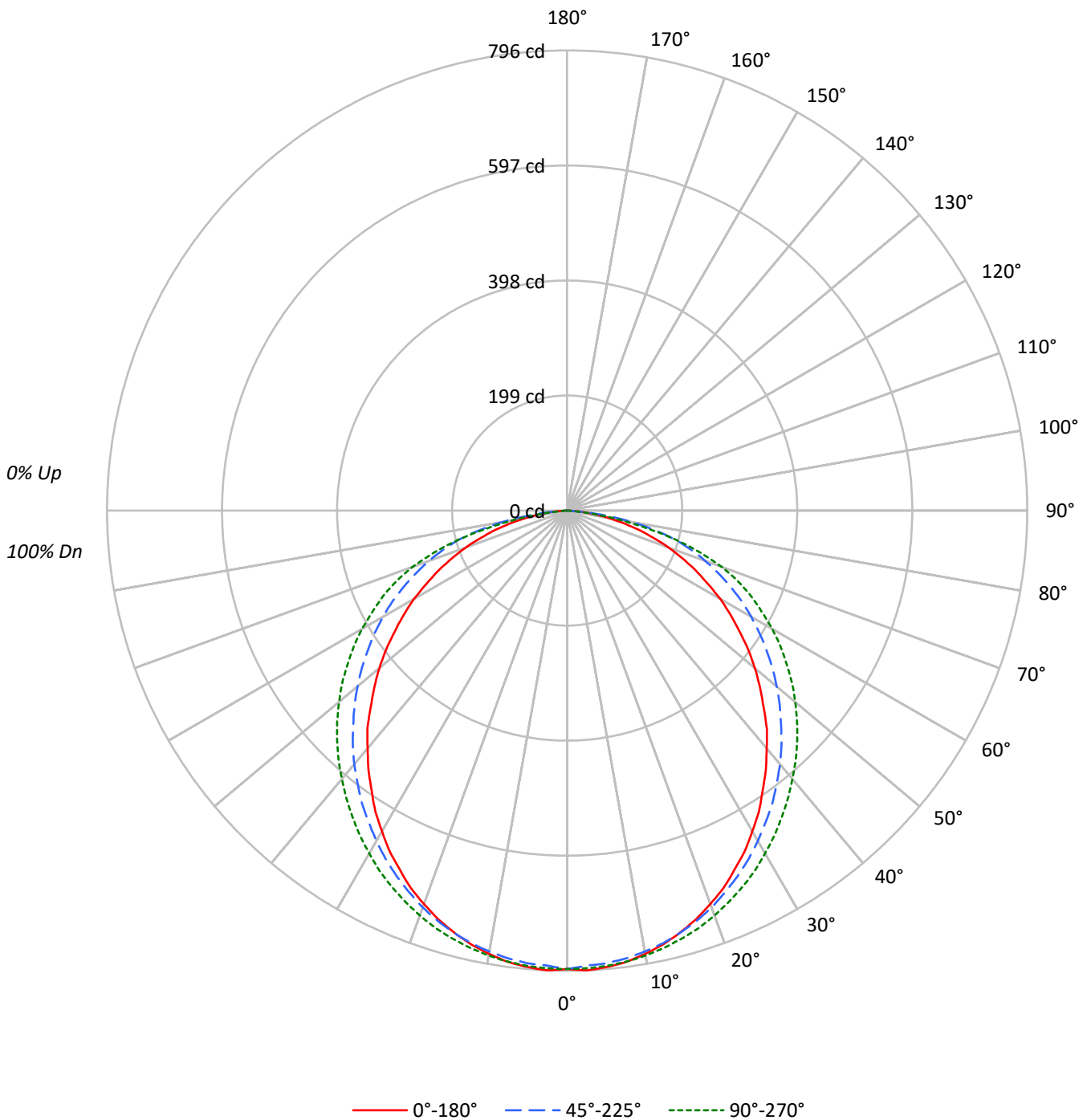
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275519

CATALOG NUMBER: 14CZ2-25-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P275519

CATALOG NUMBER: 14CZ2-25-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°	2134	2134	2134
5°	2141	2123	2135
10°	2128	2117	2136
15°	2105	2106	2135
20°	2074	2092	2134
25°	2035	2071	2132
30°	1991	2050	2128
35°	1938	2032	2126
40°	1886	2012	2129
45°	1828	1991	2141
50°	1775	1981	2155
55°	1707	1975	2175
60°	1646	1978	2204
65°	1563	1984	2239
70°	1466	1999	2238
75°	1329	2017	2022
80°	1089	1742	1440
85°	809	824	333



TEST NUMBER: P275519

CATALOG NUMBER: 14CZ2-25-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	3.3
10°-20°	214.4	9.3
20°-30°	322.9	14.0
30°-40°	387.5	16.8
40°-50°	403.9	17.5
50°-60°	373.9	16.2
60°-70°	302.1	13.1
70°-80°	184.2	8.0
80°-90°	38.0	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°	612.3	26.6
0°-40°	999.9	43.4
0°-60°	1777.7	77.2
0°-90°	2302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	792	790	786	792	790	75
15°	756	756	756	766	766	213
25°	685	689	698	715	718	316
35°	590	599	618	641	647	369
45°	480	495	523	552	563	371
55°	364	383	421	454	464	326
65°	245	270	312	343	352	243
75°	128	156	194	197	194	134
85°	26	39	27	15	11	32
90°	0	0	0	0	0	



TEST NUMBER: P275519

CATALOG NUMBER: 14CZ2-25-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	793.0	793.0	793.0	793.0	793.0
2.5°	796.1	793.6	787.9	793.6	792.5
5°	792.5	790.5	785.9	791.5	790.5
7.5°	787.4	785.3	781.2	787.9	786.9
10°	778.7	777.6	774.6	782.3	781.8
12.5°	768.4	767.9	766.4	775.1	774.6
15°	755.6	756.1	756.1	766.4	766.4
17.5°	741.2	742.2	744.3	755.6	757.1
20°	724.3	726.3	730.4	743.3	745.3
22.5°	706.8	708.4	714.5	729.9	732.0
25°	685.3	689.4	697.6	715.0	718.1
27.5°	664.7	668.3	679.6	697.6	702.7
30°	640.6	646.2	659.6	679.1	684.7
32.5°	617.5	623.7	639.1	661.6	666.8
35°	589.8	599.0	618.5	641.1	647.3
37.5°	564.6	573.4	595.4	620.1	627.3
40°	536.9	547.7	572.8	599.0	606.2
42.5°	511.2	521.5	548.7	575.4	585.2
45°	480.4	494.8	523.1	552.3	562.6
47.5°	452.2	466.6	498.9	530.2	539.5
50°	424.0	439.4	473.3	505.6	514.8
52.5°	394.7	411.2	447.6	479.9	490.7
55°	363.9	382.9	420.9	453.8	463.5
57.5°	334.7	354.2	394.7	428.1	437.8
60°	305.9	325.9	367.5	399.3	409.6
62.5°	274.1	297.7	340.8	372.1	379.8
65°	245.4	269.5	311.6	342.9	351.6
67.5°	215.1	241.3	283.3	312.1	320.3
70°	186.3	213.5	254.1	280.8	284.4
72.5°	155.5	183.2	224.3	241.3	241.3
75°	127.8	156.0	194.0	197.1	194.5
77.5°	97.5	128.8	153.5	147.3	141.2
80°	70.3	101.1	112.4	101.1	92.9
82.5°	47.2	73.4	67.8	53.9	47.7
85°	26.2	39.0	26.7	14.9	10.8
87.5°	9.8	8.7	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)