

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: P275846

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275846  
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: 14CZ2-20-RDP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1266.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 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

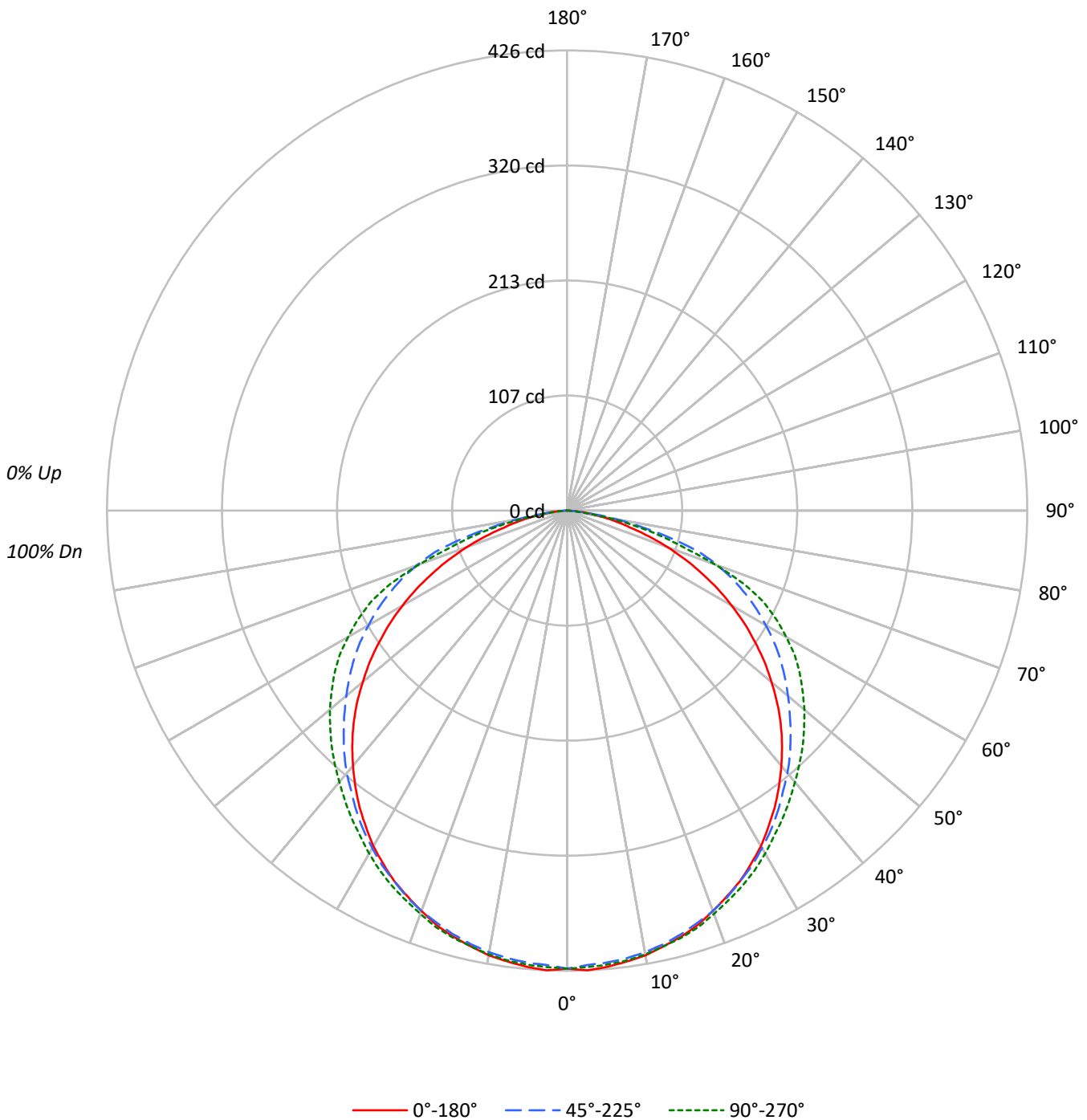
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275846

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P275846

CATALOG NUMBER: 14CZ2-20-RDP-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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	1141	1141	1141
5°	1145	1135	1140
10°	1142	1134	1140
15°	1137	1132	1140
20°	1129	1129	1138
25°	1124	1124	1139
30°	1115	1121	1139
35°	1101	1117	1143
40°	1083	1115	1153
45°	1064	1114	1174
50°	1034	1117	1200
55°	997	1132	1233
60°	947	1144	1260
65°	875	1158	1277
70°	777	1167	1143
75°	627	1048	915
80°	490	735	597
85°	337	213	151



TEST NUMBER: P275846

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	3.2
10°-20°	115.1	9.1
20°-30°	175.3	13.8
30°-40°	213.5	16.9
40°-50°	226.6	17.9
50°-60°	213.8	16.9
60°-70°	172.6	13.6
70°-80°	93.7	7.4
80°-90°	15.2	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°	330.6	26.1
0°-40°	544.2	43.0
0°-60°	984.5	77.8
0°-90°	1266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	424	423	420	423	422	40
15°	408	407	406	409	409	115
25°	379	378	379	382	384	174
35°	335	337	340	347	348	209
45°	280	284	293	303	308	215
55°	212	221	241	257	263	190
65°	137	154	182	197	201	136
75°	60	88	101	91	88	66
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



TEST NUMBER: P275846

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	424.0	424.0	424.0	424.0	424.0
2.5°	426.0	424.0	421.1	424.0	423.0
5°	424.0	423.0	420.1	423.0	422.0
7.5°	421.1	421.1	418.1	420.1	420.1
10°	418.1	417.1	415.1	418.1	417.1
12.5°	413.1	412.2	411.2	414.1	413.1
15°	408.2	407.2	406.2	409.2	409.2
17.5°	402.3	401.3	400.3	404.2	404.2
20°	394.4	394.4	394.4	398.3	397.3
22.5°	386.5	386.5	387.4	391.4	390.4
25°	378.6	377.6	378.6	382.5	383.5
27.5°	368.7	369.7	370.6	374.6	375.6
30°	358.8	359.8	360.8	365.7	366.7
32.5°	346.9	348.9	350.9	356.8	356.8
35°	335.1	337.0	340.0	346.9	347.9
37.5°	322.2	324.2	328.1	336.0	338.0
40°	308.4	311.3	317.3	325.2	328.1
42.5°	294.5	298.5	305.4	314.3	318.3
45°	279.7	283.7	292.6	303.4	308.4
47.5°	263.9	268.8	279.7	293.5	297.5
50°	247.1	254.0	266.9	281.7	286.6
52.5°	230.3	238.2	254.0	269.8	274.8
55°	212.5	221.4	241.2	257.0	262.9
57.5°	194.7	204.6	227.3	244.1	250.1
60°	175.9	187.8	212.5	229.3	234.2
62.5°	157.2	171.0	197.7	214.5	218.4
65°	137.4	154.2	181.9	196.7	200.6
67.5°	118.6	138.4	166.0	176.9	176.9
70°	98.8	120.6	148.3	151.2	145.3
72.5°	79.1	103.8	128.5	117.6	112.7
75°	60.3	88.0	100.8	90.9	88.0
77.5°	45.5	71.2	71.2	65.2	63.3
80°	31.6	54.4	47.4	41.5	38.5
82.5°	20.8	30.6	24.7	19.8	16.8
85°	10.9	11.9	6.9	5.9	4.9
87.5°	4.0	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)