

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: P275675

Luminaire Tested: **14CZ2-20-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-S-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1942.0 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

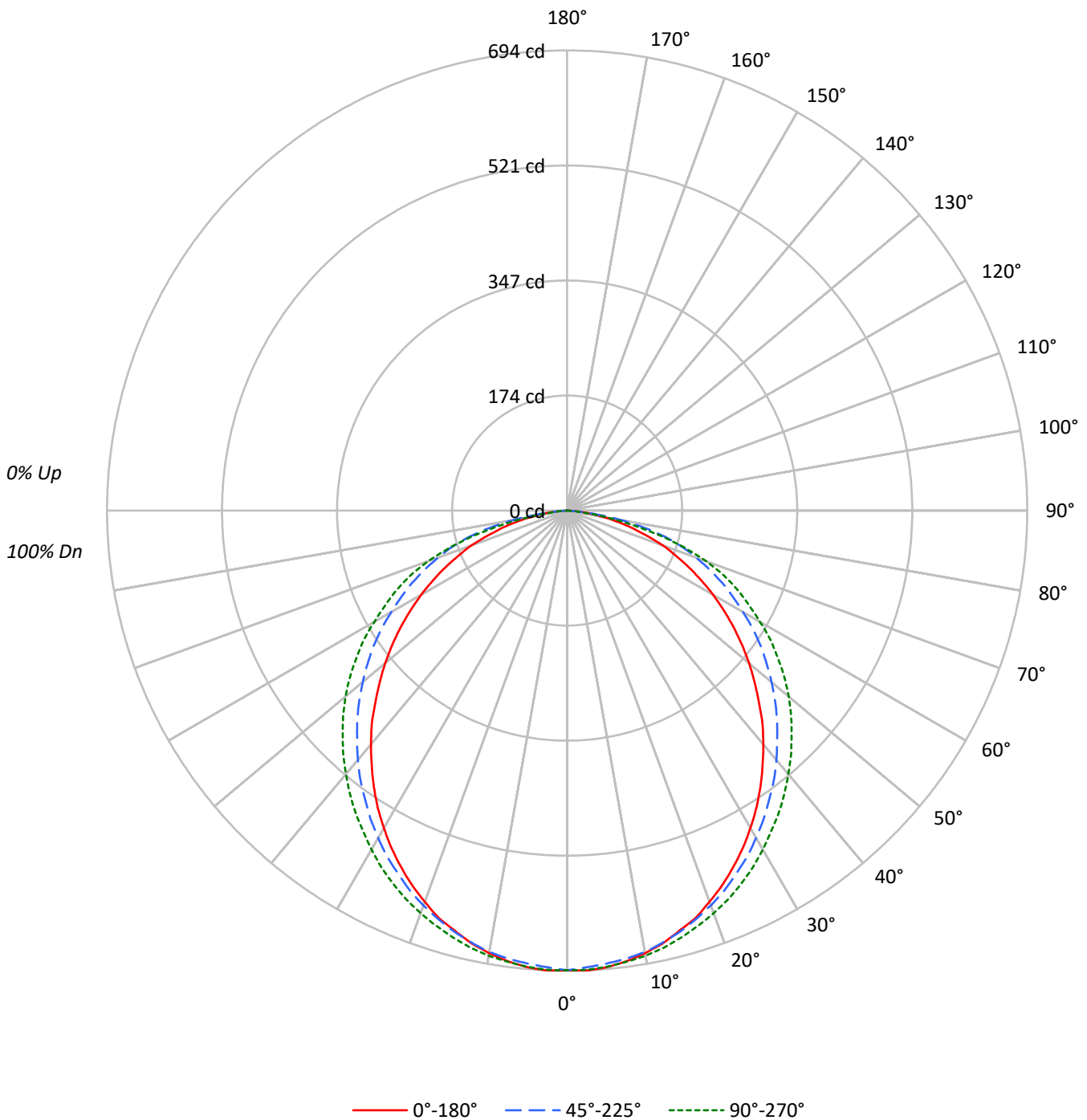
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1866	1866	1866
5°	1867	1852	1865
10°	1852	1847	1863
15°	1827	1832	1856
20°	1798	1814	1850
25°	1761	1792	1844
30°	1717	1771	1834
35°	1670	1746	1828
40°	1617	1725	1823
45°	1557	1704	1821
50°	1500	1685	1826
55°	1437	1672	1820
60°	1368	1648	1808
65°	1287	1643	1808
70°	1212	1629	1758
75°	1051	1592	1501
80°	851	1283	1000
85°	565	445	296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	3.4
10°-20°	186.3	9.6
20°-30°	279.4	14.4
30°-40°	333.3	17.2
40°-50°	344.6	17.7
50°-60°	314.6	16.2
60°-70°	247.6	12.7
70°-80°	144.1	7.4
80°-90°	26.6	1.4
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°	531.2	27.4
0°-40°	864.5	44.5
0°-60°	1523.7	78.5
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	691	689	686	691	690	66
15°	656	657	658	666	666	185
25°	593	596	604	618	621	273
35°	508	515	532	552	556	318
45°	409	423	448	473	478	316
55°	306	323	356	382	388	274
65°	202	223	258	278	284	201
75°	101	125	153	150	144	107
85°	18	26	14	12	10	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	693.3	693.3	693.3	693.3	693.3
2.5°	694.2	692.3	689.4	694.2	693.3
5°	691.3	689.4	685.6	691.3	690.4
7.5°	685.6	683.6	681.7	687.5	686.5
10°	677.9	676.9	675.9	682.7	681.7
12.5°	668.2	668.2	667.3	675.0	675.0
15°	655.7	656.7	657.6	666.3	666.3
17.5°	644.2	643.2	646.1	655.7	656.7
20°	627.8	629.7	633.6	645.1	646.1
22.5°	611.4	613.3	620.1	631.6	634.5
25°	593.1	596.0	603.7	618.2	621.0
27.5°	573.9	577.7	588.3	603.7	606.6
30°	552.7	558.5	570.0	587.3	590.2
32.5°	531.5	537.3	551.7	569.1	572.9
35°	508.4	515.1	531.5	551.7	556.5
37.5°	484.3	493.0	512.2	532.5	538.2
40°	460.2	469.9	491.1	512.2	519.0
42.5°	436.2	445.8	468.9	493.0	499.7
45°	409.2	422.7	447.7	472.8	478.5
47.5°	383.2	397.7	425.6	450.6	458.3
50°	358.2	372.6	402.5	428.5	436.2
52.5°	332.2	347.6	379.4	406.3	413.1
55°	306.2	322.6	356.3	382.3	388.0
57.5°	280.2	297.5	332.2	357.2	364.0
60°	254.2	272.5	306.2	331.2	336.0
62.5°	228.2	247.5	282.1	304.3	309.1
65°	202.2	223.4	258.0	278.3	284.0
67.5°	177.2	198.3	232.1	251.3	256.1
70°	154.1	173.3	207.0	221.5	223.4
72.5°	125.2	149.2	182.0	189.7	184.9
75°	101.1	125.2	153.1	150.2	144.4
77.5°	77.0	101.1	119.4	109.8	102.1
80°	54.9	79.0	82.8	68.4	64.5
82.5°	35.6	54.9	46.2	35.6	28.9
85°	18.3	26.0	14.4	11.6	9.6
87.5°	5.8	3.9	1.9	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)