

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: P275392

Luminaire Tested: **14CZ2-20-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275392  
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: 14CZ2-20-UNV-L83050-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2203.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 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

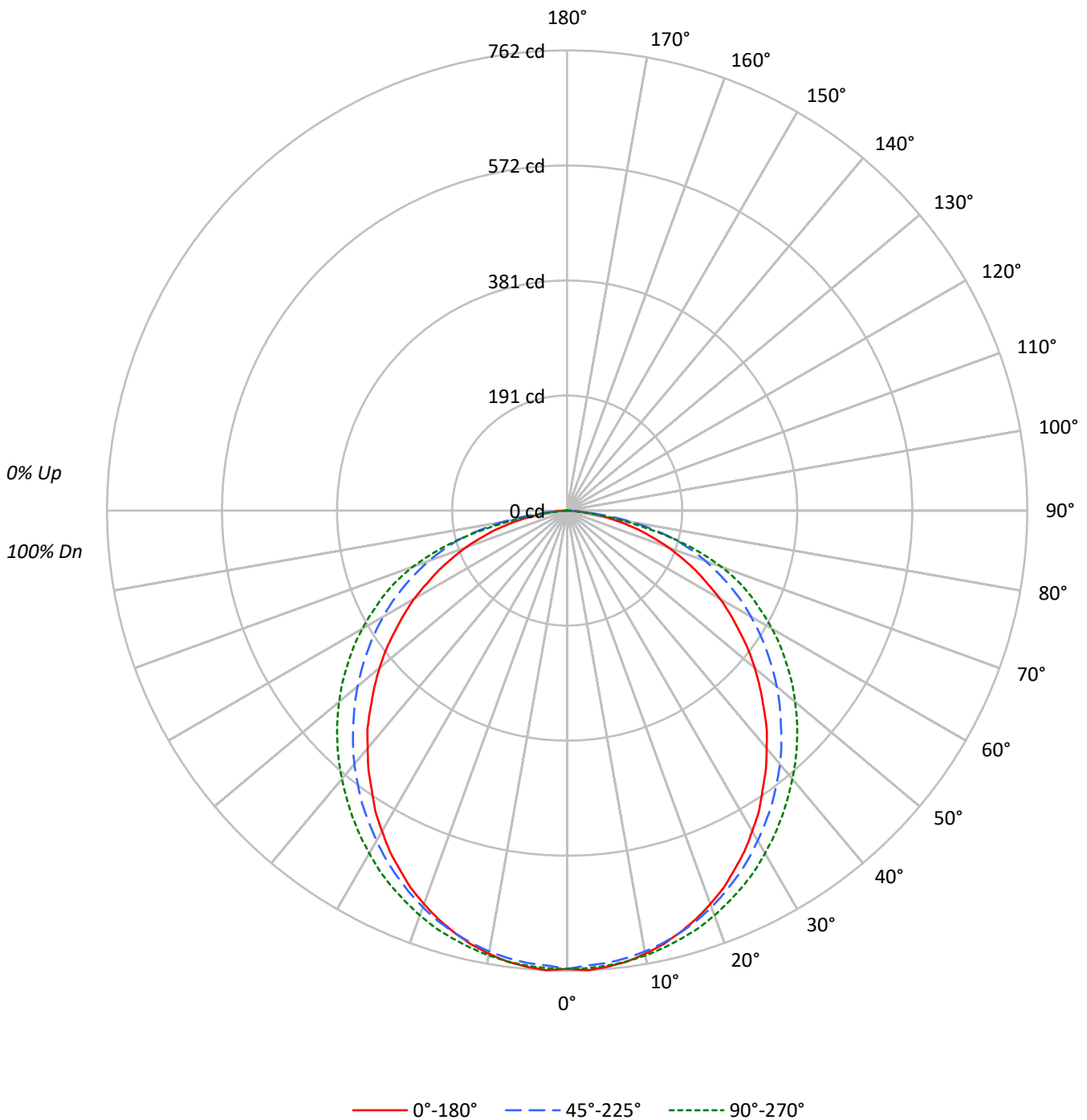
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2042	2042	2042
5°	2049	2032	2044
10°	2036	2026	2044
15°	2014	2016	2043
20°	1985	2002	2043
25°	1947	1982	2040
30°	1905	1961	2036
35°	1854	1944	2035
40°	1805	1926	2038
45°	1750	1905	2049
50°	1699	1896	2063
55°	1634	1890	2081
60°	1576	1893	2110
65°	1495	1899	2143
70°	1403	1913	2141
75°	1272	1931	1936
80°	1043	1667	1378
85°	775	787	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.3
10°-20°	205.2	9.3
20°-30°	309.0	14.0
30°-40°	370.8	16.8
40°-50°	386.5	17.5
50°-60°	357.8	16.2
60°-70°	289.1	13.1
70°-80°	176.3	8.0
80°-90°	36.4	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°	586.0	26.6
0°-40°	956.9	43.4
0°-60°	1701.2	77.2
0°-90°	2203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	758	756	752	758	756	72
15°	723	724	724	733	733	204
25°	656	660	668	684	687	302
35°	564	573	592	614	619	354
45°	460	474	501	529	538	355
55°	348	366	403	434	444	312
65°	235	258	298	328	336	232
75°	122	149	186	189	186	128
85°	25	37	26	14	10	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	758.9	758.9	758.9	758.9	758.9
2.5°	761.9	759.4	754.0	759.4	758.4
5°	758.4	756.5	752.1	757.5	756.5
7.5°	753.5	751.6	747.6	754.0	753.0
10°	745.2	744.2	741.3	748.6	748.1
12.5°	735.4	734.9	733.4	741.7	741.3
15°	723.1	723.6	723.6	733.4	733.4
17.5°	709.3	710.3	712.3	723.1	724.6
20°	693.1	695.1	699.0	711.3	713.3
22.5°	676.4	677.9	683.8	698.5	700.5
25°	655.8	659.7	667.6	684.3	687.2
27.5°	636.1	639.6	650.4	667.6	672.5
30°	613.0	618.5	631.2	649.9	655.3
32.5°	590.9	596.8	611.6	633.2	638.1
35°	564.4	573.3	591.9	613.5	619.4
37.5°	540.3	548.7	569.8	593.4	600.3
40°	513.8	524.1	548.2	573.3	580.1
42.5°	489.3	499.1	525.1	550.7	560.0
45°	459.8	473.5	500.6	528.6	538.4
47.5°	432.8	446.5	477.5	507.4	516.3
50°	405.8	420.5	452.9	483.9	492.7
52.5°	377.8	393.5	428.3	459.3	469.6
55°	348.3	366.5	402.8	434.2	443.6
57.5°	320.3	338.9	377.8	409.7	419.0
60°	292.8	311.9	351.7	382.2	392.0
62.5°	262.3	284.9	326.2	356.1	363.5
65°	234.8	257.9	298.2	328.1	336.5
67.5°	205.8	230.9	271.2	298.7	306.5
70°	178.3	204.3	243.2	268.7	272.1
72.5°	148.8	175.4	214.7	230.9	230.9
75°	122.3	149.3	185.7	188.6	186.2
77.5°	93.3	123.3	146.9	141.0	135.1
80°	67.3	96.8	107.6	96.8	88.9
82.5°	45.2	70.2	64.8	51.6	45.7
85°	25.1	37.3	25.5	14.2	10.3
87.5°	9.3	8.4	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)