

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: P842808

Luminaire Tested: **14CZ2-20-S-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-S-UNV-B50  
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

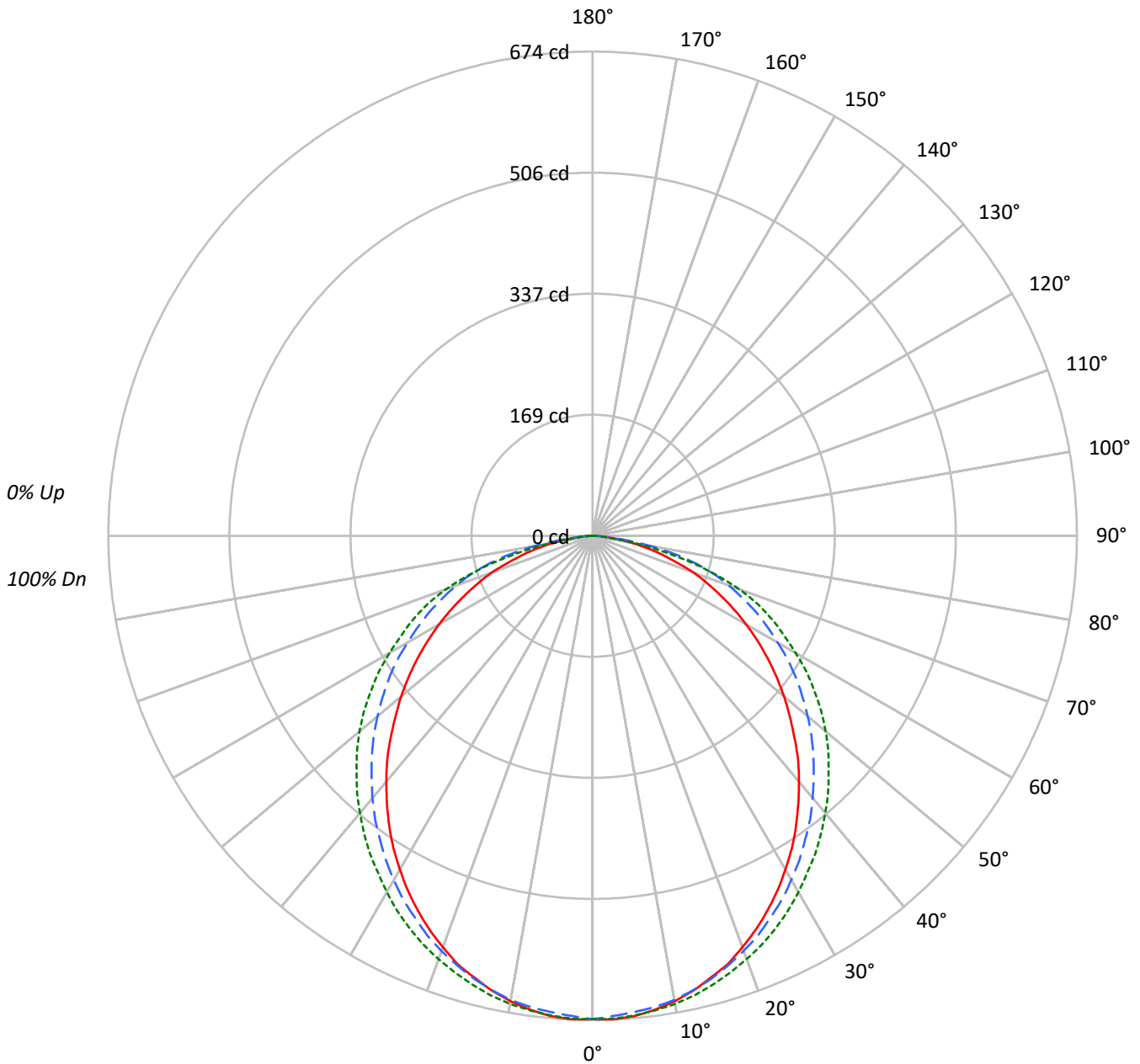
Lumens per Lamp: N/A  
Luminaire Lumens: 1885.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
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	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°	1899	1899	1899
5°	1902	1886	1899
10°	1886	1881	1897
15°	1860	1865	1890
20°	1831	1847	1884
25°	1793	1825	1877
30°	1748	1803	1867
35°	1701	1778	1861
40°	1646	1756	1856
45°	1586	1735	1854
50°	1527	1715	1859
55°	1463	1702	1854
60°	1393	1678	1842
65°	1311	1673	1842
70°	1235	1659	1789
75°	1070	1621	1529
80°	866	1307	1018
85°	576	453	304



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	3.4
10°-20°	180.8	9.6
20°-30°	271.2	14.4
30°-40°	323.5	17.2
40°-50°	334.5	17.7
50°-60°	305.4	16.2
60°-70°	240.3	12.7
70°-80°	139.9	7.4
80°-90°	25.8	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°	515.6	27.4
0°-40°	839.1	44.5
0°-60°	1479.0	78.5
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	671	669	666	671	670	64
15°	636	637	638	647	647	180
25°	576	579	586	600	603	265
35°	494	500	516	536	540	308
45°	397	410	435	459	464	307
55°	297	313	346	371	377	266
65°	196	217	250	270	276	195
75°	98	122	149	146	140	104
85°	18	25	14	11	9	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	672.9	672.9	672.9	672.9	672.9
2.5°	673.8	672.0	669.1	673.8	672.9
5°	671.1	669.1	665.5	671.1	670.1
7.5°	665.5	663.5	661.7	667.3	666.4
10°	657.9	657.0	656.1	662.6	661.7
12.5°	648.6	648.6	647.7	655.2	655.2
15°	636.5	637.4	638.3	646.7	646.7
17.5°	625.3	624.4	627.1	636.5	637.4
20°	609.4	611.2	615.0	626.2	627.1
22.5°	593.4	595.4	601.9	613.1	615.9
25°	575.7	578.6	586.0	600.0	602.8
27.5°	557.0	560.8	571.0	586.0	588.7
30°	536.4	542.0	553.2	570.1	572.9
32.5°	515.9	521.5	535.5	552.3	556.1
35°	493.5	500.0	515.9	535.5	540.2
37.5°	470.1	478.5	497.2	516.8	522.4
40°	446.7	456.1	476.6	497.2	503.8
42.5°	423.4	432.8	455.1	478.5	485.1
45°	397.2	410.3	434.6	458.9	464.5
47.5°	372.0	386.0	413.1	437.4	444.9
50°	347.7	361.7	390.6	415.9	423.4
52.5°	322.5	337.4	368.2	394.4	400.9
55°	297.2	313.1	345.9	371.0	376.7
57.5°	272.0	288.8	322.5	346.8	353.3
60°	246.8	264.5	297.2	321.5	326.2
62.5°	221.5	240.1	273.8	295.3	300.0
65°	196.3	216.8	250.5	270.2	275.8
67.5°	172.0	192.5	225.3	243.9	248.6
70°	149.6	168.2	201.0	215.0	216.8
72.5°	121.5	144.9	176.6	184.1	179.5
75°	98.1	121.5	148.6	145.8	140.2
77.5°	74.8	98.1	115.9	106.5	99.1
80°	53.3	76.6	80.4	66.3	62.6
82.5°	34.6	53.3	44.9	34.6	28.1
85°	17.8	25.2	14.0	11.2	9.4
87.5°	5.6	3.8	1.8	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)