

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: P731939

Luminaire Tested: **22CZ2-20HE-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-B2750-W2D-4000K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

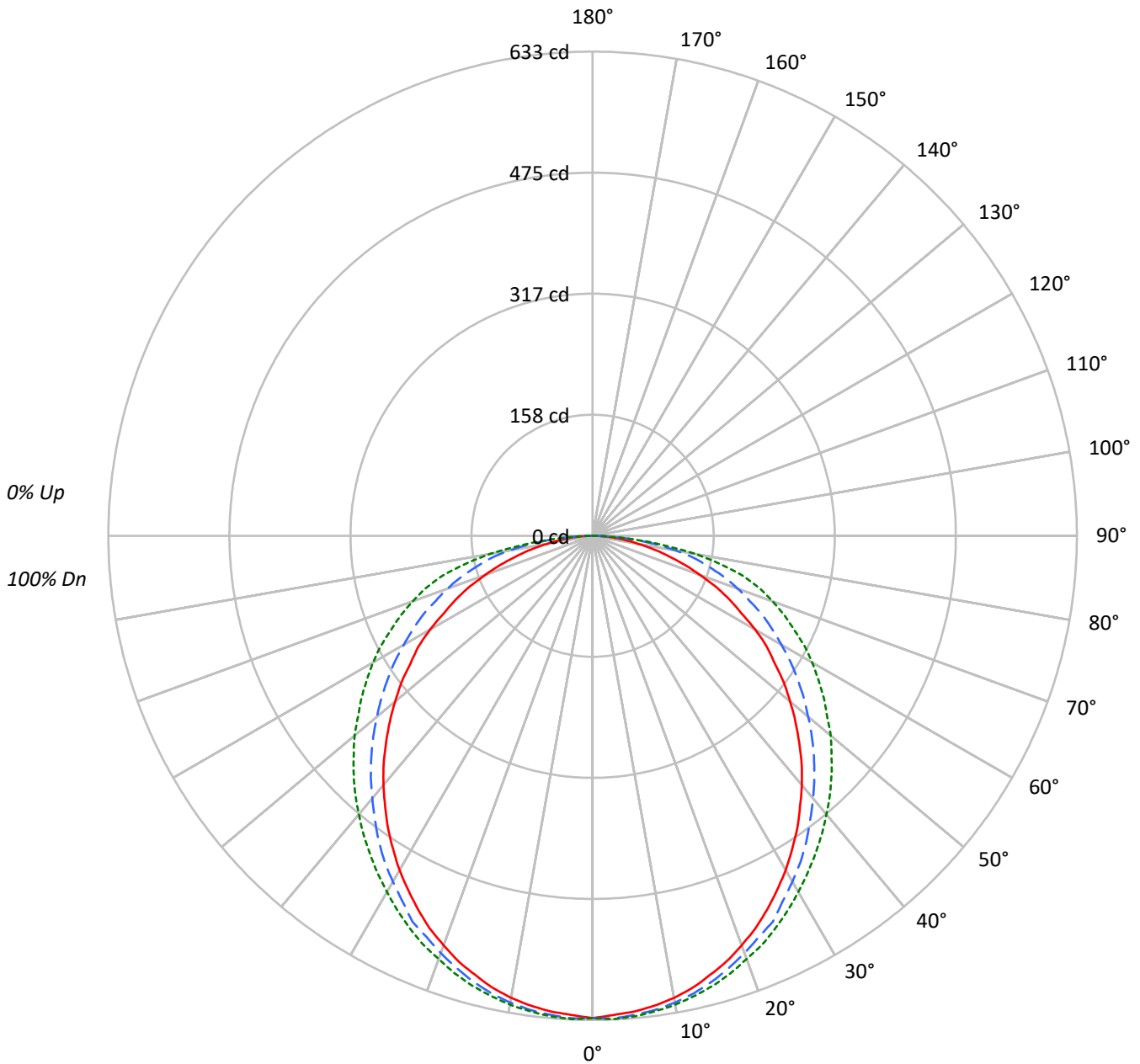
Lumens per Lamp: N/A  
Luminaire Lumens: 1855.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56								
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48								
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41								
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36								
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32								
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28								
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25								
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23								

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

	0°	45°	90°
0°	1790	1790	1790
5°	1778	1791	1796
10°	1767	1786	1794
15°	1746	1772	1788
20°	1720	1753	1778
25°	1689	1743	1772
30°	1654	1711	1762
35°	1616	1688	1758
40°	1576	1660	1761
45°	1531	1641	1772
50°	1487	1624	1793
55°	1436	1617	1824
60°	1393	1616	1880
65°	1323	1642	1949
70°	1235	1673	2075
75°	1131	1732	2242
80°	985	1804	2208
85°	863	1605	1755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	3.2
10°-20°	169.9	9.2
20°-30°	255.1	13.7
30°-40°	304.8	16.4
40°-50°	316.9	17.1
50°-60°	293.7	15.8
60°-70°	240.9	13.0
70°-80°	162.9	8.8
80°-90°	51.2	2.8
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°	484.6	26.1
0°-40°	789.4	42.6
0°-60°	1400.0	75.5
0°-90°	1855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1855.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	624	625	629	630	631	59
15°	594	597	603	607	609	168
25°	539	544	557	563	566	248
35°	466	473	487	502	508	292
45°	382	389	409	433	442	295
55°	290	299	327	356	369	261
65°	197	208	245	276	290	195
75°	103	120	158	190	204	109
85°	26	36	49	55	54	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	630.7	630.7	630.7	630.7	630.7
2.5°	627.1	628.8	631.6	632.6	632.6
5°	624.3	625.2	628.8	629.8	630.7
7.5°	619.7	621.6	625.2	626.2	627.1
10°	613.3	615.2	619.7	621.6	622.5
12.5°	605.2	607.0	612.5	615.2	616.1
15°	594.2	596.9	603.3	607.0	608.8
17.5°	583.3	585.9	592.4	597.8	599.7
20°	569.6	575.9	580.6	587.8	588.7
22.5°	555.9	559.6	567.7	575.1	578.7
25°	539.4	544.0	556.8	563.2	565.9
27.5°	522.2	528.5	538.5	548.6	552.2
30°	504.8	509.3	522.2	533.9	537.7
32.5°	485.6	492.0	505.7	517.5	523.0
35°	466.4	472.8	487.4	502.0	507.5
37.5°	445.5	452.7	467.4	484.6	492.0
40°	425.4	430.9	448.1	469.1	475.5
42.5°	404.3	410.7	429.0	451.9	459.1
45°	381.6	388.8	409.0	432.6	441.7
47.5°	359.6	366.9	388.8	412.6	423.5
50°	336.8	345.9	367.8	395.2	406.2
52.5°	314.9	323.2	347.8	376.1	386.1
55°	290.3	299.4	326.8	355.9	368.7
57.5°	270.2	276.5	306.7	336.8	349.6
60°	245.5	253.8	284.8	316.7	331.3
62.5°	219.1	232.8	264.7	297.5	312.2
65°	197.1	208.1	244.6	276.5	290.3
67.5°	174.3	186.2	221.8	255.6	271.1
70°	148.8	164.3	201.7	235.5	250.1
72.5°	125.9	142.4	180.7	213.6	229.1
75°	103.2	120.4	158.0	189.9	204.5
77.5°	81.3	100.4	136.9	161.6	170.7
80°	60.3	78.5	110.4	127.8	135.1
82.5°	42.0	57.5	81.3	90.4	92.2
85°	26.5	36.5	49.3	54.8	53.9
87.5°	11.9	14.6	18.3	20.1	19.1
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)