

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: P731938

Luminaire Tested: **22CZ2-20HE-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731938  
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-3500K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

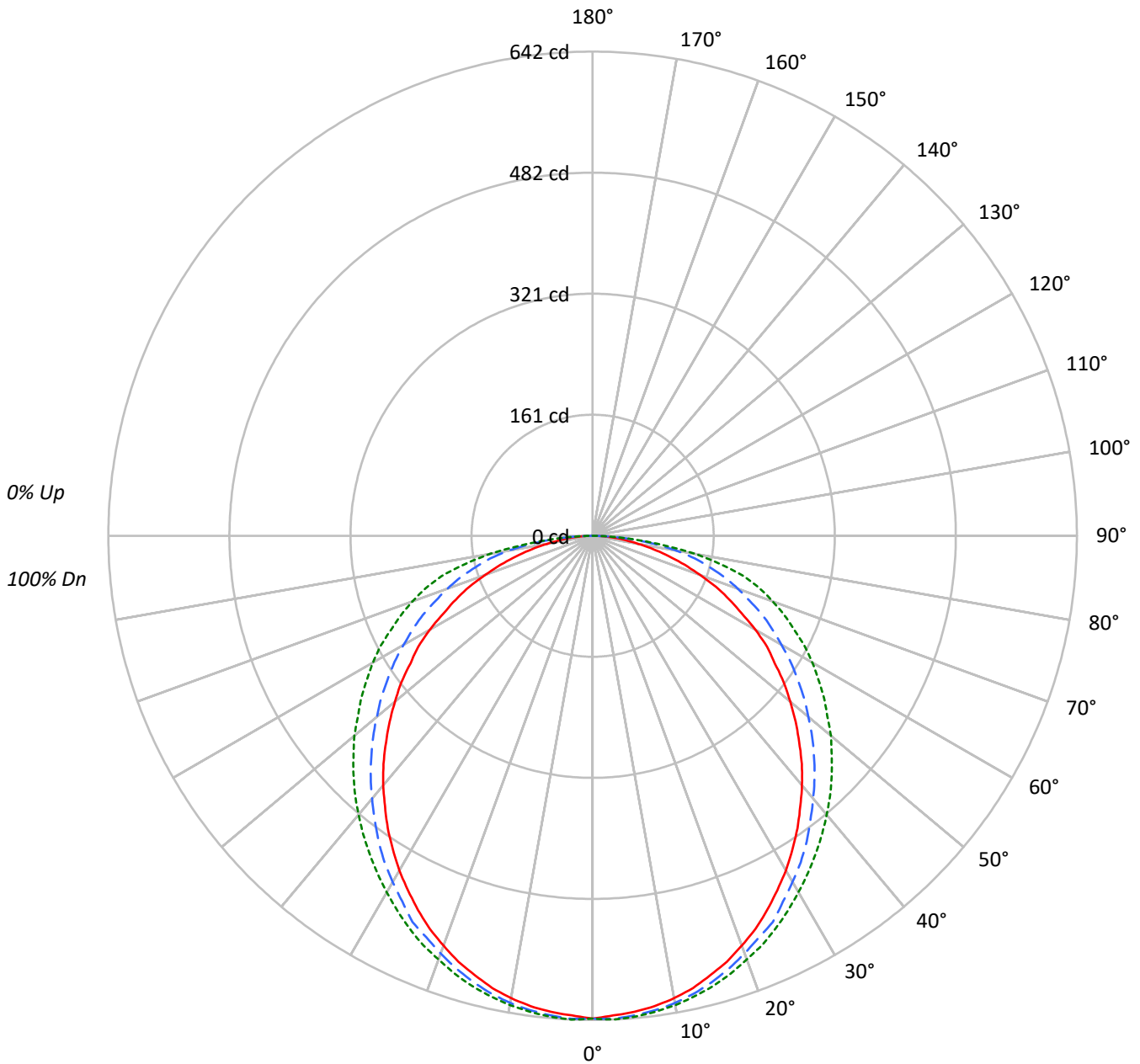
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1883.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

TEST NUMBER: P731938  
CATALOG NUMBER: 22CZ2-20HE-B2750-W2D-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P731938

CATALOG NUMBER: 22CZ2-20HE-B2750-W2D-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	43	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°	1817	1817	1817
5°	1805	1818	1824
10°	1794	1813	1821
15°	1772	1799	1815
20°	1746	1779	1805
25°	1714	1770	1799
30°	1679	1737	1788
35°	1640	1714	1785
40°	1599	1685	1788
45°	1554	1666	1799
50°	1509	1648	1820
55°	1458	1641	1852
60°	1414	1641	1909
65°	1344	1667	1979
70°	1254	1699	2106
75°	1148	1757	2276
80°	1000	1832	2240
85°	876	1628	1781



TEST NUMBER: P731938

CATALOG NUMBER: 22CZ2-20HE-B2750-W2D-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	3.2
10°-20°	172.5	9.2
20°-30°	258.9	13.7
30°-40°	309.4	16.4
40°-50°	321.7	17.1
50°-60°	298.2	15.8
60°-70°	244.6	13.0
70°-80°	165.3	8.8
80°-90°	52.0	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°	491.9	26.1
0°-40°	801.3	42.6
0°-60°	1421.1	75.5
0°-90°	1883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	634	635	638	639	640	60
15°	603	606	612	616	618	170
25°	548	552	565	572	574	252
35°	473	480	495	510	515	296
45°	387	395	415	439	448	299
55°	295	304	332	361	374	265
65°	200	211	248	281	295	198
75°	105	122	160	193	208	111
85°	27	37	50	56	55	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	640.2	640.2	640.2	640.2	640.2
2.5°	636.6	638.3	641.1	642.1	642.1
5°	633.8	634.7	638.3	639.3	640.2
7.5°	629.1	631.0	634.7	635.7	636.6
10°	622.6	624.5	629.1	631.0	631.9
12.5°	614.3	616.1	621.7	624.5	625.4
15°	603.2	606.0	612.4	616.1	618.0
17.5°	592.1	594.8	601.4	606.9	608.8
20°	578.2	584.6	589.3	596.7	597.6
22.5°	564.3	568.0	576.3	583.7	587.4
25°	547.6	552.3	565.2	571.7	574.5
27.5°	530.0	536.5	546.7	556.8	560.5
30°	512.4	517.0	530.0	542.0	545.8
32.5°	493.0	499.4	513.3	525.3	530.9
35°	473.4	479.9	494.8	509.6	515.2
37.5°	452.2	459.6	474.4	492.0	499.4
40°	431.8	437.4	454.9	476.2	482.7
42.5°	410.4	416.9	435.5	458.7	466.1
45°	387.3	394.7	415.1	439.1	448.4
47.5°	365.0	372.5	394.7	418.8	429.9
50°	341.9	351.2	373.4	401.2	412.3
52.5°	319.7	328.0	353.1	381.8	391.9
55°	294.7	303.9	331.7	361.3	374.3
57.5°	274.2	280.7	311.3	341.9	354.8
60°	249.2	257.6	289.1	321.5	336.3
62.5°	222.4	236.3	268.6	302.0	316.9
65°	200.1	211.3	248.3	280.7	294.7
67.5°	177.0	189.0	225.1	259.5	275.2
70°	151.1	166.8	204.8	239.1	253.9
72.5°	127.8	144.6	183.5	216.8	232.6
75°	104.7	122.3	160.3	192.7	207.6
77.5°	82.5	101.9	139.0	164.0	173.3
80°	61.2	79.7	112.1	129.7	137.1
82.5°	42.7	58.4	82.5	91.8	93.6
85°	26.9	37.1	50.0	55.6	54.7
87.5°	12.1	14.9	18.5	20.4	19.4
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)