

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: P842896

Luminaire Tested: **22CZ2-20HE-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842896  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-S-UNV-B35  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

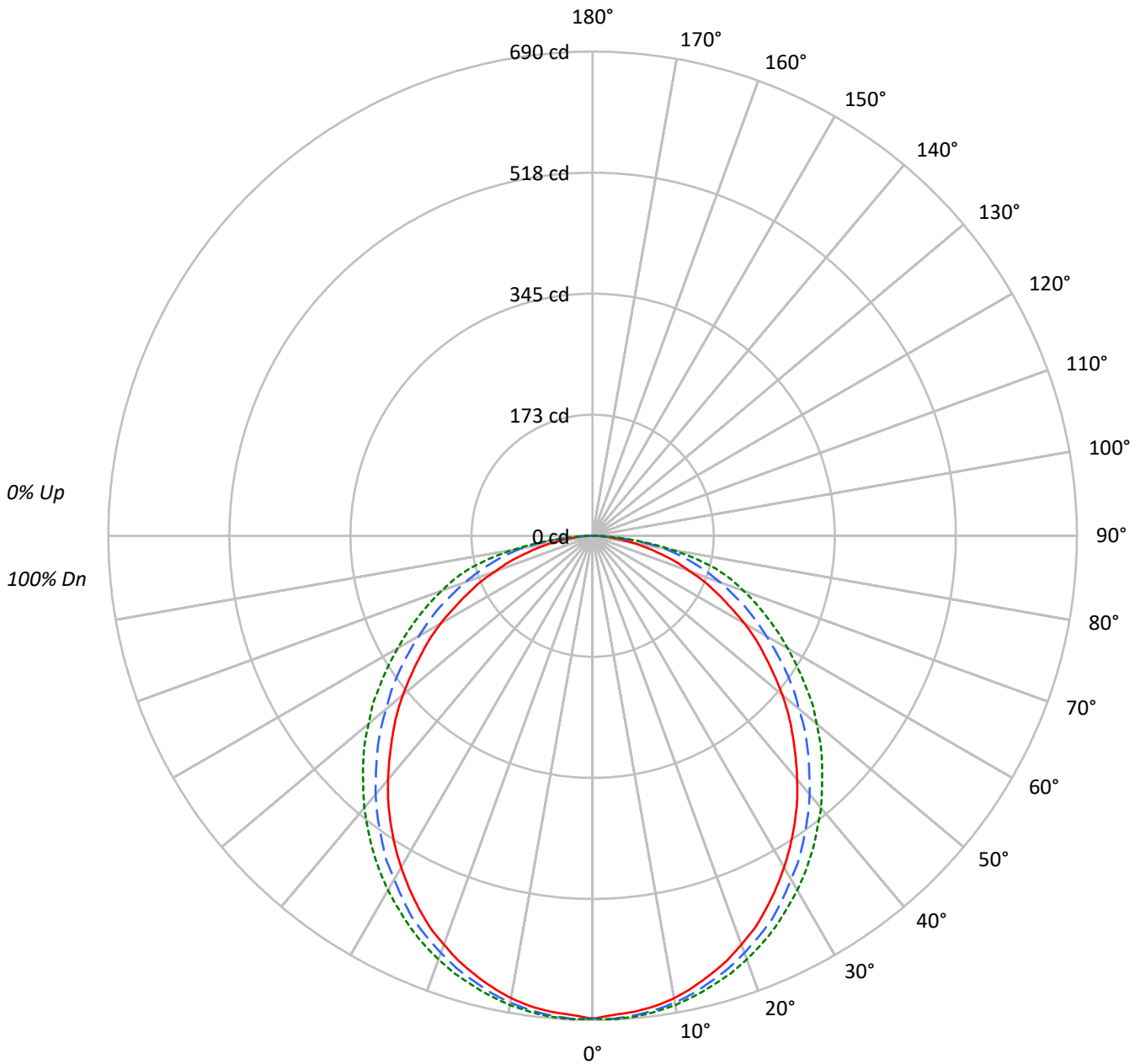
Lumens per Lamp: N/A  
Luminaire Lumens: 1920.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	1952	1952	1952
5°	1939	1955	1960
10°	1928	1946	1956
15°	1903	1929	1948
20°	1872	1910	1940
25°	1834	1890	1927
30°	1788	1852	1911
35°	1738	1819	1893
40°	1679	1782	1875
45°	1618	1740	1855
50°	1558	1693	1839
55°	1485	1662	1826
60°	1418	1622	1820
65°	1323	1612	1840
70°	1219	1598	1895
75°	1100	1620	1994
80°	951	1668	1873
85°	788	1400	1400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	3.4
10°-20°	185.2	9.6
20°-30°	277.0	14.4
30°-40°	328.1	17.1
40°-50°	334.4	17.4
50°-60°	299.7	15.6
60°-70°	234.6	12.2
70°-80°	151.3	7.9
80°-90°	44.7	2.3
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°	527.3	27.5
0°-40°	855.4	44.5
0°-60°	1489.4	77.6
0°-90°	1920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	681	683	686	687	688	65
15°	648	651	657	662	663	183
25°	586	591	604	612	616	270
35°	502	508	525	541	546	314
45°	403	412	434	456	462	311
55°	300	310	336	359	369	269
65°	197	209	240	263	274	196
75°	100	116	148	173	182	108
85°	24	33	43	43	43	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	688.0	688.0	688.0	688.0	688.0
2.5°	683.5	685.3	688.9	689.8	689.8
5°	680.9	682.6	686.2	687.1	688.0
7.5°	676.3	677.2	681.7	683.5	684.4
10°	669.2	670.9	675.5	678.2	679.0
12.5°	659.3	662.0	667.4	670.9	671.9
15°	647.7	651.3	656.6	662.0	663.0
17.5°	635.1	638.8	645.9	652.2	654.0
20°	619.9	624.4	632.4	639.6	642.3
22.5°	604.7	608.2	618.2	627.1	629.8
25°	585.9	591.3	603.8	611.9	615.5
27.5°	566.1	572.4	585.0	595.7	599.3
30°	545.6	551.9	565.3	578.8	583.2
32.5°	524.0	531.3	547.3	560.8	565.3
35°	501.7	507.9	525.0	541.1	546.5
37.5°	478.4	483.8	503.5	520.5	525.9
40°	453.3	460.4	481.1	500.8	506.1
42.5°	428.2	436.3	456.9	478.4	483.8
45°	403.1	412.1	433.6	456.0	462.3
47.5°	378.9	386.1	410.3	431.8	440.8
50°	352.9	360.1	383.5	407.6	416.6
52.5°	326.0	336.0	361.0	384.3	395.0
55°	300.1	309.9	336.0	359.3	369.1
57.5°	275.9	283.9	310.8	335.0	344.9
60°	249.9	257.2	285.8	311.8	320.7
62.5°	222.2	232.9	262.4	286.6	297.4
65°	197.1	208.7	240.1	263.4	274.1
67.5°	173.8	184.5	215.0	240.1	251.8
70°	146.9	161.3	192.6	217.6	228.4
72.5°	125.4	138.0	170.2	195.3	207.0
75°	100.3	115.5	147.8	172.9	181.9
77.5°	79.8	95.0	125.4	145.1	149.6
80°	58.2	73.4	102.1	112.0	114.6
82.5°	39.4	53.8	73.4	76.1	77.1
85°	24.2	33.1	43.0	43.0	43.0
87.5°	11.7	13.4	15.2	14.4	14.4
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)