

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: P842897

Luminaire Tested: **22CZ2-20HE-S-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842897  
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-B40  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

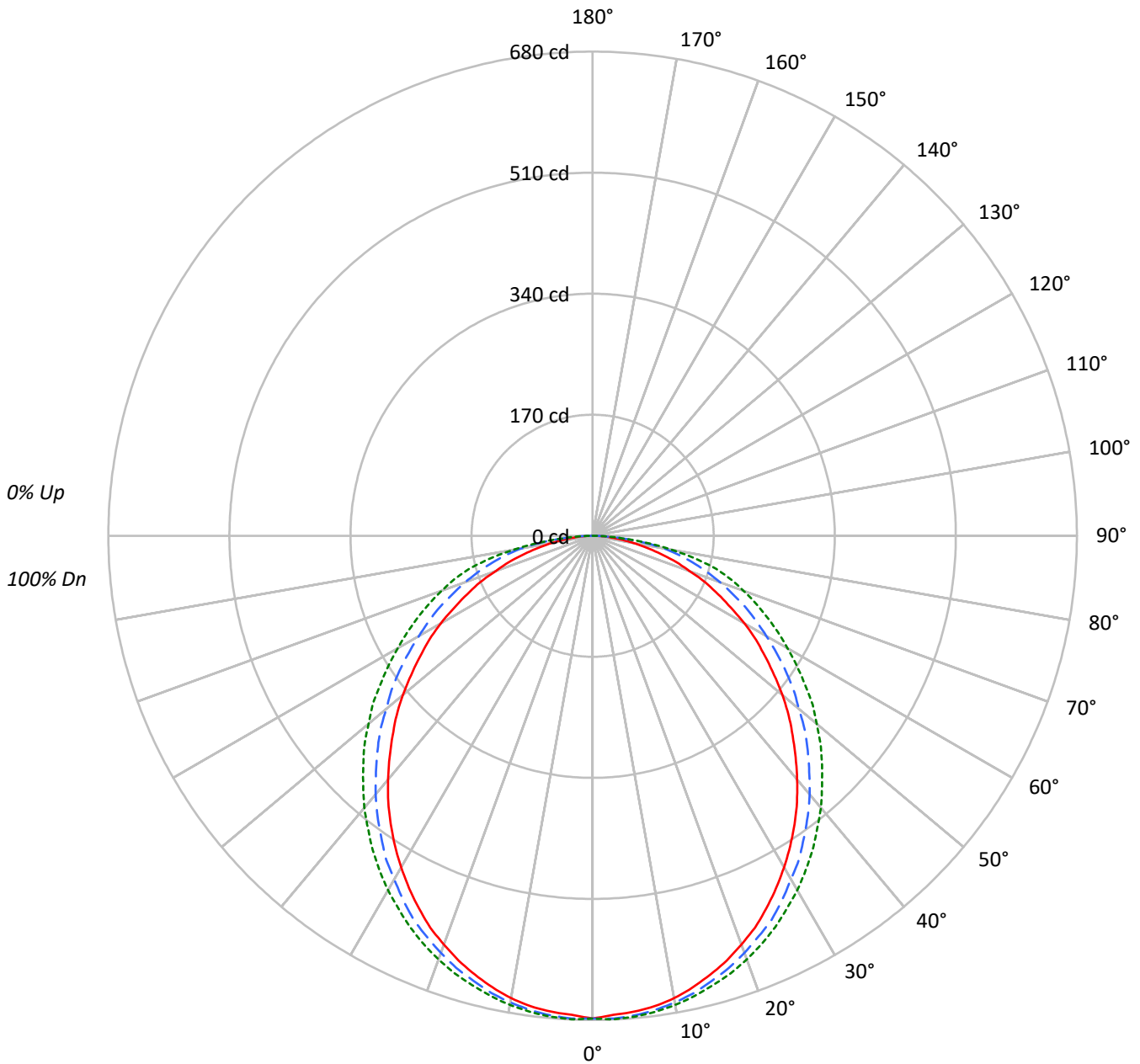
Lumens per Lamp: N/A  
Luminaire Lumens: 1892.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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°	1924	1924	1924
5°	1911	1926	1931
10°	1900	1918	1928
15°	1875	1901	1919
20°	1844	1882	1911
25°	1807	1863	1899
30°	1762	1825	1883
35°	1713	1792	1865
40°	1655	1756	1847
45°	1594	1714	1828
50°	1535	1668	1812
55°	1463	1638	1799
60°	1398	1598	1794
65°	1305	1589	1814
70°	1201	1575	1868
75°	1083	1596	1966
80°	936	1644	1847
85°	775	1377	1377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.4
10°-20°	182.5	9.6
20°-30°	273.0	14.4
30°-40°	323.3	17.1
40°-50°	329.5	17.4
50°-60°	295.3	15.6
60°-70°	231.2	12.2
70°-80°	149.1	7.9
80°-90°	44.0	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°	519.6	27.5
0°-40°	842.9	44.6
0°-60°	1467.7	77.6
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	671	673	676	677	678	64
15°	638	642	647	652	653	180
25°	577	583	595	603	606	266
35°	494	500	517	533	538	309
45°	397	406	427	449	456	307
55°	296	305	331	354	364	265
65°	194	206	237	260	270	193
75°	99	114	146	170	179	106
85°	24	33	42	42	42	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	678.0	678.0	678.0	678.0	678.0
2.5°	673.5	675.3	678.8	679.8	679.8
5°	670.9	672.7	676.2	677.1	678.0
7.5°	666.5	667.3	671.8	673.5	674.5
10°	659.5	661.2	665.6	668.3	669.1
12.5°	649.7	652.3	657.7	661.2	662.1
15°	638.3	641.8	647.0	652.3	653.3
17.5°	625.8	629.5	636.5	642.7	644.5
20°	610.8	615.3	623.2	630.3	633.0
22.5°	595.8	599.4	609.1	618.0	620.6
25°	577.3	582.7	595.0	603.0	606.5
27.5°	557.9	564.0	576.5	587.0	590.5
30°	537.7	543.8	557.0	570.3	574.7
32.5°	516.4	523.5	539.4	552.7	557.0
35°	494.4	500.5	517.3	533.2	538.5
37.5°	471.4	476.7	496.2	512.9	518.2
40°	446.7	453.7	474.0	493.5	498.7
42.5°	421.9	429.9	450.2	471.4	476.7
45°	397.2	406.1	427.2	449.4	455.5
47.5°	373.4	380.4	404.4	425.5	434.4
50°	347.8	354.9	377.9	401.7	410.5
52.5°	321.3	331.1	355.7	378.7	389.3
55°	295.7	305.4	331.1	354.0	363.7
57.5°	271.9	279.8	306.3	330.1	339.9
60°	246.3	253.4	281.6	307.2	316.1
62.5°	218.9	229.5	258.6	282.4	293.1
65°	194.3	205.6	236.6	259.6	270.1
67.5°	171.3	181.8	211.9	236.6	248.1
70°	144.8	158.9	189.8	214.5	225.1
72.5°	123.6	136.0	167.8	192.4	203.9
75°	98.8	113.8	145.6	170.4	179.3
77.5°	78.6	93.6	123.6	143.0	147.4
80°	57.3	72.3	100.6	110.3	113.0
82.5°	38.8	53.0	72.3	75.0	76.0
85°	23.8	32.7	42.3	42.3	42.3
87.5°	11.5	13.2	15.0	14.1	14.1
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)