

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: P842899

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-SQR-UNV-B35  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

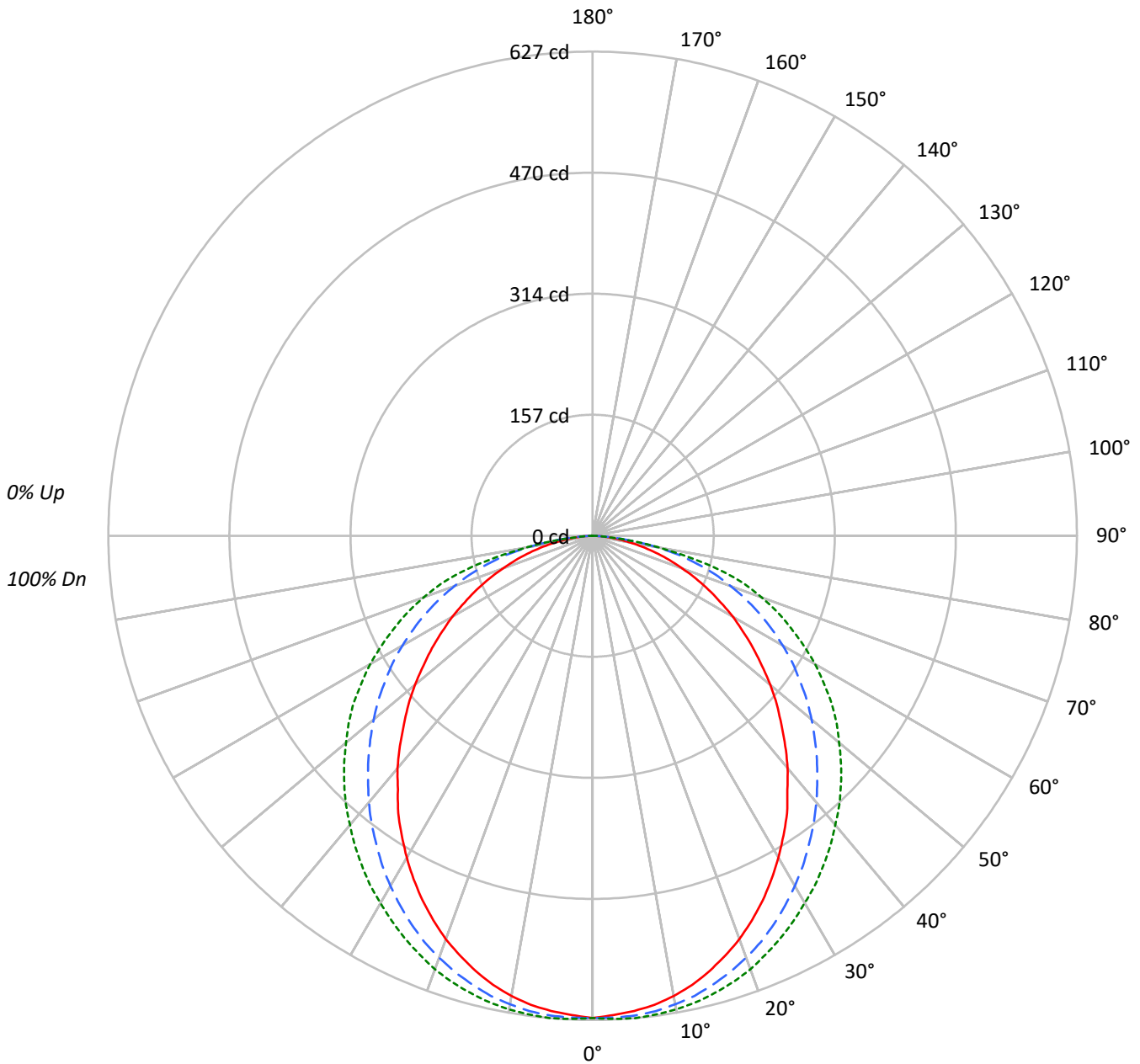
Lumens per Lamp: N/A  
Luminaire Lumens: 1788.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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					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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83								
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	68	60	54	66	59	53	64	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43								
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

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

	0°	45°	90°
0°	1772	1772	1772
5°	1759	1777	1786
10°	1743	1775	1794
15°	1715	1768	1800
20°	1679	1755	1804
25°	1631	1738	1801
30°	1577	1716	1799
35°	1520	1690	1805
40°	1455	1669	1811
45°	1386	1648	1825
50°	1326	1633	1839
55°	1256	1620	1869
60°	1190	1613	1888
65°	1111	1601	1903
70°	1021	1577	1929
75°	922	1536	1860
80°	791	1360	1402
85°	638	804	638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	3.3
10°-20°	169.3	9.5
20°-30°	254.3	14.2
30°-40°	303.2	17.0
40°-50°	313.5	17.5
50°-60°	288.2	16.1
60°-70°	229.5	12.8
70°-80°	140.2	7.8
80°-90°	30.5	1.7
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°	482.8	27.0
0°-40°	786.0	44.0
0°-60°	1387.8	77.6
0°-90°	1788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	618	619	624	626	627	59
15°	584	591	602	610	613	164
25°	521	534	555	570	575	240
35°	439	457	488	513	521	274
45°	345	370	411	444	455	267
55°	254	282	328	365	378	227
65°	166	194	238	272	283	164
75°	84	109	140	165	170	90
85°	20	24	25	21	20	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	624.5	624.5	624.5	624.5	624.5
2.5°	621.1	622.0	624.5	626.2	626.2
5°	617.7	619.4	623.7	626.2	627.1
7.5°	612.7	615.3	621.1	624.5	625.4
10°	605.1	608.5	616.1	621.1	622.8
12.5°	595.7	600.8	610.2	617.0	618.7
15°	583.8	590.6	601.7	610.2	612.7
17.5°	570.2	578.7	592.3	602.5	605.9
20°	555.9	564.3	581.3	593.2	597.4
22.5°	538.9	549.9	569.4	583.0	586.4
25°	521.0	533.8	555.0	570.2	575.3
27.5°	501.6	516.8	539.7	558.4	562.7
30°	481.2	497.3	523.6	544.0	549.1
32.5°	459.9	478.6	506.6	529.5	536.3
35°	438.8	457.4	488.0	513.4	521.0
37.5°	414.1	436.2	470.1	496.5	505.7
40°	392.9	414.1	450.6	479.5	488.8
42.5°	369.2	392.0	430.3	461.6	472.7
45°	345.4	370.0	410.7	443.9	454.8
47.5°	323.4	347.9	390.3	425.2	436.2
50°	300.4	325.8	370.0	405.6	416.7
52.5°	275.8	303.8	349.6	385.2	398.0
55°	253.8	281.7	327.5	364.9	377.7
57.5°	230.8	259.7	307.2	342.8	354.7
60°	209.7	237.6	284.3	319.1	332.6
62.5°	186.7	215.5	261.4	295.3	308.1
65°	165.5	193.5	238.5	271.5	283.4
67.5°	144.3	172.3	214.7	246.1	259.7
70°	123.1	151.0	190.1	220.6	232.5
72.5°	104.4	129.0	166.3	194.4	205.4
75°	84.1	108.6	140.1	164.6	169.7
77.5°	65.4	87.5	113.7	124.8	126.5
80°	48.4	65.4	83.2	85.8	85.8
82.5°	32.2	45.0	51.8	52.6	51.8
85°	19.6	23.8	24.7	21.3	19.6
87.5°	6.8	6.8	4.3	2.6	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)