

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: P731957

Luminaire Tested: **22CZ2-20HE-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731957  
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-B2750-W2D-3000K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

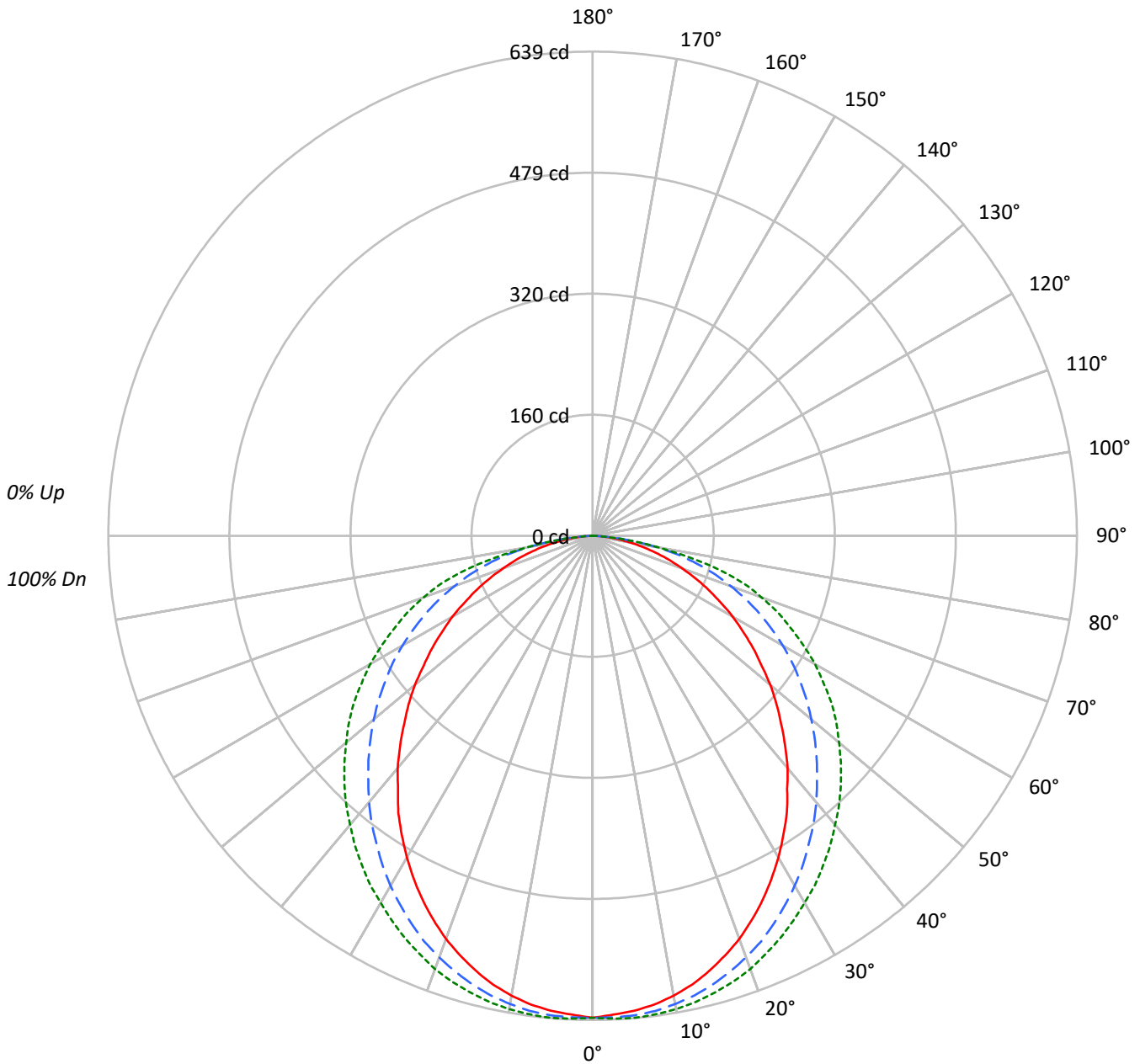
Lumens per Lamp: N/A  
Luminaire Lumens: 1821.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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									
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	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°	1805	1805	1805
5°	1792	1810	1819
10°	1775	1808	1828
15°	1747	1800	1833
20°	1709	1788	1837
25°	1661	1770	1834
30°	1606	1747	1832
35°	1548	1722	1838
40°	1482	1700	1844
45°	1412	1679	1859
50°	1350	1663	1873
55°	1279	1650	1903
60°	1212	1644	1923
65°	1132	1631	1938
70°	1040	1606	1965
75°	938	1564	1894
80°	806	1384	1427
85°	648	817	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	3.3
10°-20°	172.4	9.5
20°-30°	259.0	14.2
30°-40°	308.8	17.0
40°-50°	319.3	17.5
50°-60°	293.6	16.1
60°-70°	233.7	12.8
70°-80°	142.8	7.8
80°-90°	31.1	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°	491.7	27.0
0°-40°	800.5	44.0
0°-60°	1413.4	77.6
0°-90°	1821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	629	631	635	638	639	60
15°	595	602	613	621	624	167
25°	531	544	565	581	586	244
35°	447	466	497	523	531	279
45°	352	377	418	452	463	272
55°	258	287	334	372	385	231
65°	169	197	243	276	289	167
75°	86	111	143	168	173	91
85°	20	24	25	22	20	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	636.1	636.1	636.1	636.1	636.1
2.5°	632.6	633.5	636.1	637.8	637.8
5°	629.2	630.9	635.3	637.8	638.7
7.5°	624.0	626.6	632.6	636.1	637.0
10°	616.2	619.7	627.4	632.6	634.3
12.5°	606.7	611.9	621.4	628.3	630.1
15°	594.6	601.5	612.8	621.4	624.0
17.5°	580.8	589.4	603.2	613.6	617.1
20°	566.1	574.8	592.0	604.1	608.4
22.5°	548.8	560.0	579.9	593.8	597.2
25°	530.6	543.7	565.2	580.8	585.9
27.5°	510.8	526.4	549.6	568.7	573.0
30°	490.1	506.4	533.3	554.0	559.2
32.5°	468.4	487.4	516.0	539.3	546.2
35°	446.9	465.9	497.0	522.9	530.6
37.5°	421.7	444.2	478.8	505.6	515.1
40°	400.2	421.7	459.0	488.3	497.8
42.5°	376.0	399.3	438.2	470.1	481.4
45°	351.8	376.8	418.3	452.0	463.2
47.5°	329.3	354.3	397.5	433.0	444.2
50°	305.9	331.9	376.8	413.1	424.4
52.5°	280.9	309.4	356.1	392.4	405.4
55°	258.5	286.9	333.6	371.6	384.6
57.5°	235.1	264.5	312.8	349.1	361.2
60°	213.5	242.0	289.6	324.9	338.8
62.5°	190.1	219.5	266.2	300.7	313.8
65°	168.6	197.0	242.9	276.5	288.6
67.5°	146.9	175.5	218.7	250.6	264.5
70°	125.4	153.8	193.6	224.7	236.8
72.5°	106.4	131.4	169.4	198.0	209.1
75°	85.6	110.6	142.7	167.7	172.8
77.5°	66.6	89.1	115.8	127.1	128.8
80°	49.3	66.6	84.7	87.3	87.3
82.5°	32.8	45.9	52.8	53.6	52.8
85°	19.9	24.2	25.1	21.7	19.9
87.5°	6.9	6.9	4.4	2.7	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)