

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: P731941

Luminaire Tested: **22CZ2-20HE-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-HRP-B2750-W2D-2700K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

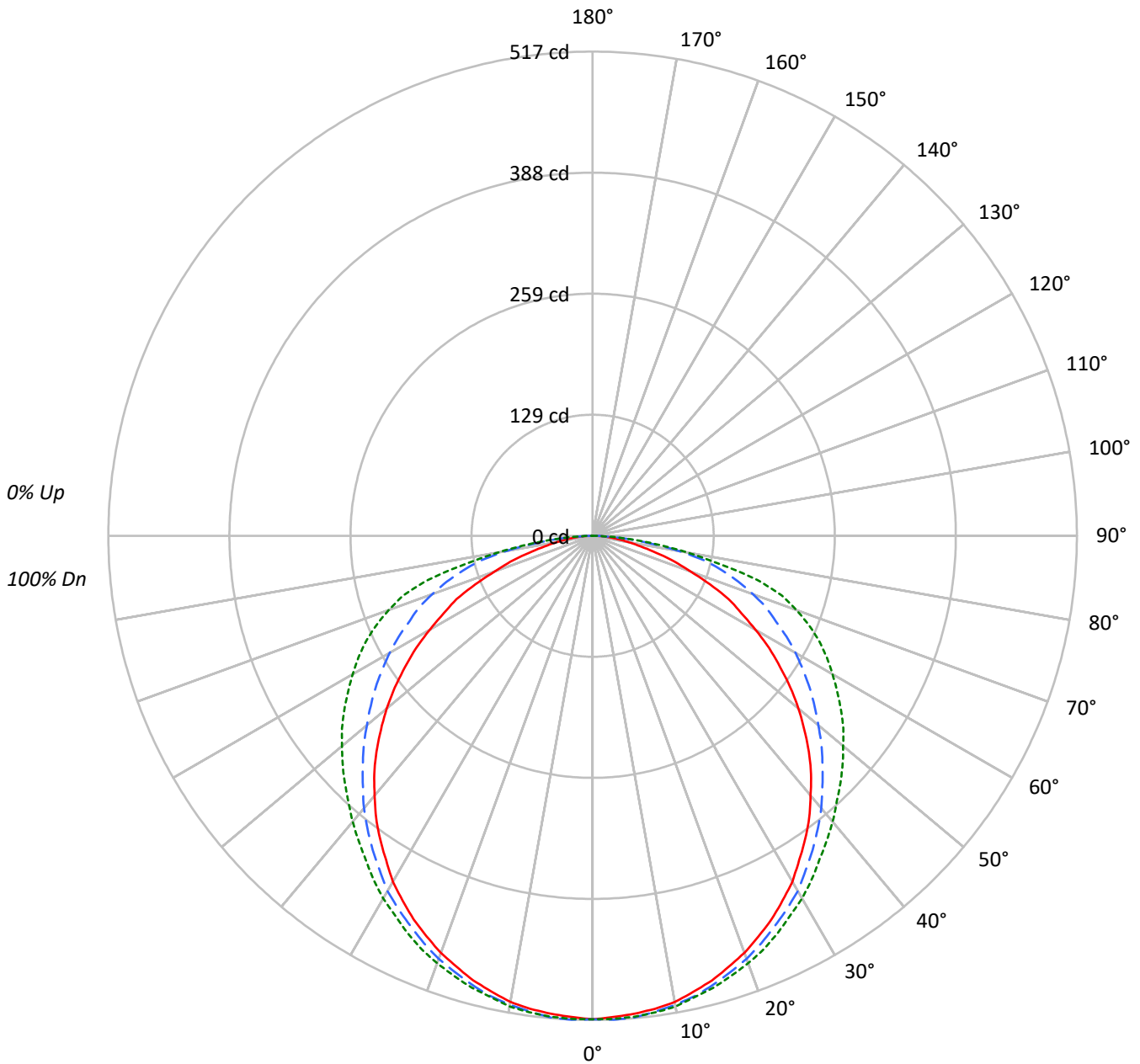
Lumens per Lamp: N/A  
Luminaire Lumens: 1568.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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

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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23			

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

	0°	45°	90°
0°	1465	1465	1465
5°	1460	1471	1468
10°	1457	1465	1471
15°	1444	1459	1467
20°	1431	1452	1467
25°	1415	1440	1465
30°	1397	1435	1465
35°	1370	1419	1463
40°	1341	1407	1476
45°	1310	1393	1500
50°	1266	1389	1542
55°	1209	1400	1600
60°	1140	1420	1678
65°	1076	1448	1793
70°	918	1510	1920
75°	770	1572	1995
80°	631	1520	1665
85°	550	1126	1221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	3.1
10°-20°	140.0	8.9
20°-30°	212.1	13.5
30°-40°	256.2	16.3
40°-50°	269.2	17.2
50°-60°	253.3	16.2
60°-70°	211.2	13.5
70°-80°	139.9	8.9
80°-90°	37.3	2.4
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°	401.1	25.6
0°-40°	657.2	41.9
0°-60°	1179.6	75.2
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	512	513	516	516	515	49
15°	492	494	497	498	499	139
25°	452	455	460	466	468	208
35°	396	400	410	418	422	247
45°	326	331	347	365	374	251
55°	244	255	283	312	324	219
65°	160	174	216	251	267	156
75°	70	98	143	173	182	76
85°	17	26	35	38	38	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	516.3	516.3	516.3	516.3	516.3
2.5°	514.3	515.4	517.3	517.3	516.3
5°	512.4	513.3	516.3	516.3	515.4
7.5°	509.4	510.4	512.4	514.3	513.3
10°	505.5	506.4	508.5	510.4	510.4
12.5°	498.5	499.4	503.5	504.4	504.4
15°	491.6	493.6	496.6	498.5	499.4
17.5°	482.7	484.7	488.6	492.6	492.6
20°	473.8	475.8	480.7	484.7	485.7
22.5°	463.0	465.8	470.8	475.8	477.7
25°	452.0	455.0	460.0	465.8	467.8
27.5°	439.2	442.2	449.1	456.0	457.0
30°	426.4	429.2	438.1	444.1	447.1
32.5°	410.5	414.5	423.3	432.2	435.2
35°	395.6	399.6	409.5	418.4	422.3
37.5°	379.8	383.7	394.7	405.6	410.5
40°	362.0	367.0	379.8	391.7	398.6
42.5°	345.2	350.1	363.0	378.9	385.7
45°	326.5	331.3	347.1	365.0	373.9
47.5°	306.6	312.6	331.3	353.1	362.0
50°	286.9	293.8	314.6	339.3	349.2
52.5°	266.1	275.0	298.7	325.4	337.3
55°	244.4	255.2	282.9	311.6	323.5
57.5°	223.6	233.4	266.1	296.8	309.6
60°	200.8	213.6	250.2	281.9	295.7
62.5°	179.0	192.9	233.4	267.1	281.9
65°	160.3	174.0	215.6	251.3	267.1
67.5°	135.5	154.3	200.8	234.4	250.2
70°	110.7	136.5	182.0	216.6	231.4
72.5°	92.0	116.7	163.2	197.8	211.7
75°	70.2	97.9	143.4	173.1	182.0
77.5°	52.4	81.1	122.6	137.5	138.5
80°	38.6	62.4	93.0	97.9	101.9
82.5°	26.7	43.5	60.3	66.3	68.2
85°	16.9	25.8	34.6	37.5	37.5
87.5°	8.9	9.9	11.9	11.9	11.9
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)