

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: P880761

Luminaire Tested: **22CZ2-44VHE-RDP-B2750-W2D-5000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44VHE-RDP-B2750-W2D-5000K  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

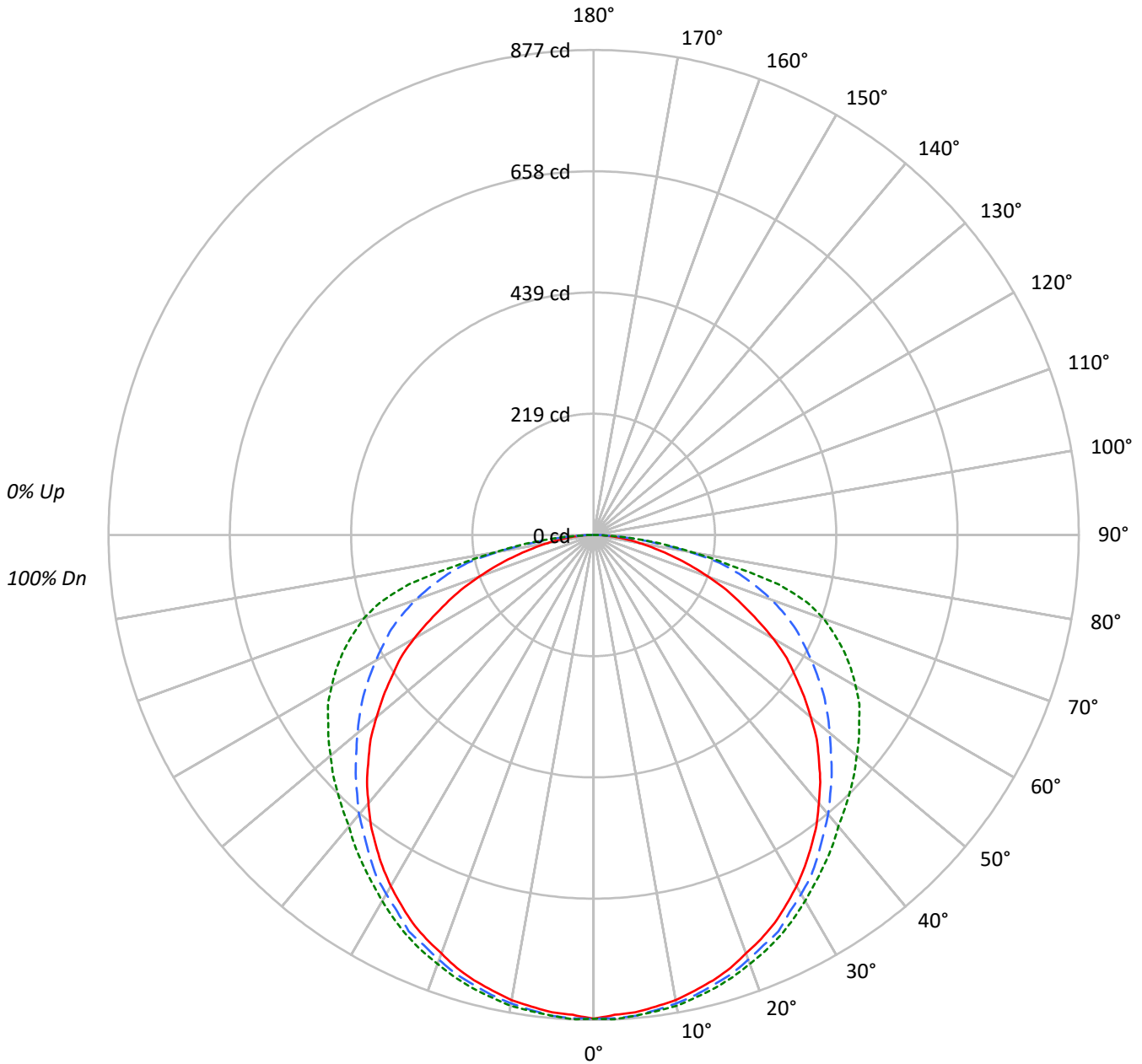
Lumens per Lamp: N/A  
Luminaire Lumens: 2785.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

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

	0°	45°	90°
0°	2482	2482	2482
5°	2468	2486	2486
10°	2461	2479	2491
15°	2450	2473	2491
20°	2431	2468	2493
25°	2425	2476	2502
30°	2403	2457	2504
35°	2377	2448	2520
40°	2345	2444	2550
45°	2310	2442	2630
50°	2261	2460	2740
55°	2199	2514	2898
60°	2128	2580	3104
65°	1980	2711	3356
70°	1819	2840	3672
75°	1596	2986	3797
80°	1373	2843	2982
85°	1201	2064	2266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	3.0
10°-20°	237.6	8.5
20°-30°	362.5	13.0
30°-40°	442.6	15.9
40°-50°	473.2	17.0
50°-60°	456.8	16.4
60°-70°	393.2	14.1
70°-80°	266.1	9.6
80°-90°	70.2	2.5
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°	682.8	24.5
0°-40°	1125.5	40.4
0°-60°	2055.5	73.8
0°-90°	2785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	867	869	873	873	873	82
15°	834	836	842	846	848	235
25°	774	778	791	795	799	356
35°	686	692	707	721	727	429
45°	576	586	608	639	655	444
55°	444	459	508	559	586	398
65°	295	324	404	467	500	293
75°	146	193	272	328	346	156
85°	37	51	63	66	70	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	874.8	874.8	874.8	874.8	<i>874.8</i>
2.5°	<i>868.7</i>	<i>870.6</i>	<i>874.8</i>	<i>874.8</i>	<i>876.7</i>
5°	866.6	868.7	872.7	872.7	<i>872.7</i>
7.5°	860.4	862.5	866.6	868.7	<i>868.7</i>
10°	854.2	856.4	860.4	862.5	<i>864.6</i>
12.5°	844.1	846.0	852.1	856.4	<i>856.4</i>
15°	833.9	835.8	841.9	846.0	<i>848.1</i>
17.5°	821.4	825.6	831.8	835.8	<i>837.9</i>
20°	805.2	809.3	817.3	823.7	<i>825.6</i>
22.5°	790.8	795.1	803.1	809.3	<i>813.3</i>
25°	774.5	778.5	790.8	795.1	<i>799.1</i>
27.5°	753.9	758.1	768.3	776.4	<i>782.5</i>
30°	733.5	737.5	749.9	760.3	<i>764.3</i>
32.5°	710.8	717.0	731.4	739.7	<i>745.6</i>
35°	686.2	692.4	706.8	721.0	<i>727.4</i>
37.5°	661.8	668.0	682.2	700.6	<i>708.9</i>
40°	633.2	641.2	659.7	684.3	<i>688.3</i>
42.5°	606.4	616.6	633.2	661.8	<i>672.0</i>
45°	575.7	585.8	608.5	639.3	<i>655.4</i>
47.5°	547.0	557.2	581.8	618.7	<i>639.3</i>
50°	512.2	526.4	557.2	600.3	<i>620.6</i>
52.5°	479.3	491.6	532.8	579.7	<i>604.5</i>
55°	444.5	459.0	508.2	559.3	<i>585.8</i>
57.5°	414.0	426.1	481.4	538.9	<i>569.5</i>
60°	374.9	391.3	454.7	516.2	<i>547.0</i>
62.5°	333.8	358.6	428.2	491.6	<i>524.3</i>
65°	294.9	323.6	403.8	467.0	<i>499.9</i>
67.5°	260.1	290.9	373.0	440.5	<i>471.3</i>
70°	219.2	258.2	342.3	407.8	<i>442.6</i>
72.5°	182.5	225.3	307.5	373.0	<i>403.8</i>
75°	145.6	192.7	272.4	327.8	<i>346.3</i>
77.5°	112.7	157.9	233.4	250.0	<i>252.1</i>
80°	84.0	125.0	174.0	176.1	<i>182.5</i>
82.5°	57.5	88.1	112.7	122.9	<i>125.0</i>
85°	36.9	51.3	63.4	65.6	<i>69.6</i>
87.5°	16.6	18.5	22.5	20.6	<i>20.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)