

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: P880908

Luminaire Tested: **24CZ2-50VHE-RDP-B2750-W2D-3000K**

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: P880908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50VHE-RDP-B2750-W2D-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

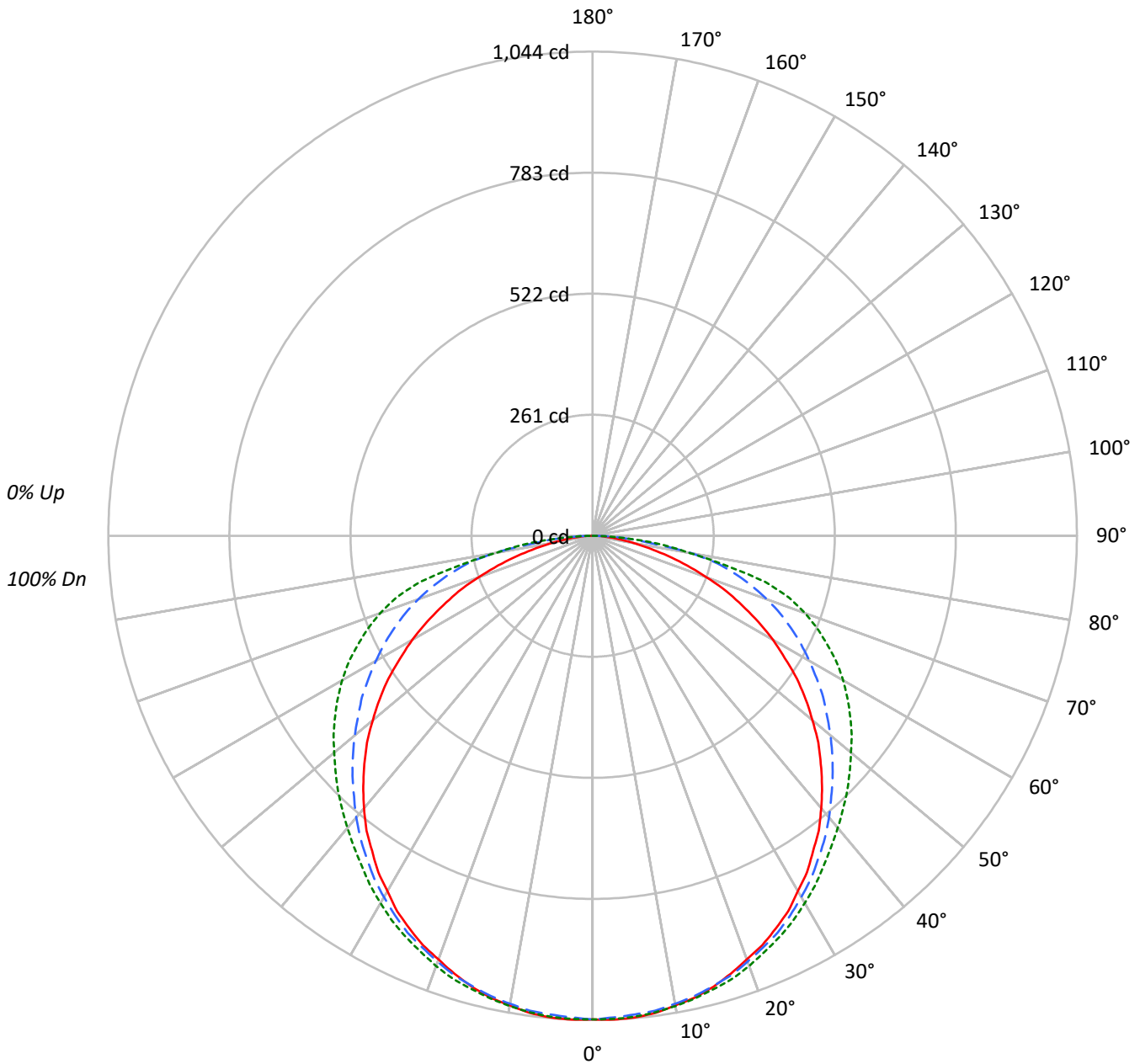
Lumens per Lamp: N/A  
Luminaire Lumens: 3316.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
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

TEST NUMBER: P880908

CATALOG NUMBER: 24CZ2-50VHE-RDP-B2750-W2D-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P880908

CATALOG NUMBER: 24CZ2-50VHE-RDP-B2750-W2D-3000K

**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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	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°	1472	1472	1472
5°	1477	1468	1475
10°	1473	1469	1476
15°	1471	1468	1478
20°	1460	1467	1482
25°	1455	1470	1486
30°	1442	1466	1490
35°	1428	1462	1496
40°	1412	1461	1515
45°	1389	1461	1549
50°	1358	1470	1596
55°	1323	1493	1667
60°	1268	1523	1759
65°	1187	1576	1867
70°	1079	1650	2009
75°	914	1740	2099
80°	722	1751	1697
85°	533	1331	1493



TEST NUMBER: P880908

CATALOG NUMBER: 24CZ2-50VHE-RDP-B2750-W2D-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	3.0
10°-20°	284.7	8.6
20°-30°	435.3	13.1
30°-40°	532.2	16.0
40°-50°	567.2	17.1
50°-60°	542.3	16.4
60°-70°	459.4	13.9
70°-80°	308.8	9.3
80°-90°	87.1	2.6
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°	819.0	24.7
0°-40°	1351.1	40.7
0°-60°	2460.7	74.2
0°-90°	3316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1043	1041	1036	1041	1041	99
15°	1006	1006	1005	1013	1012	284
25°	934	938	944	952	954	431
35°	829	836	849	865	868	519
45°	696	707	732	763	776	537
55°	538	558	607	655	678	479
65°	355	392	472	534	559	353
75°	168	228	319	373	385	180
85°	33	68	82	89	92	41
90°	0	0	0	0	0	



TEST NUMBER: P880908

CATALOG NUMBER: 24CZ2-50VHE-RDP-B2750-W2D-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1044.5	1044.5	1039.5	1042.8	1042.8
5°	1042.8	1041.2	1036.3	1041.2	1041.2
7.5°	1037.9	1036.3	1032.9	1037.9	1036.3
10°	1028.1	1028.1	1024.7	1029.7	1029.7
12.5°	1019.7	1018.1	1016.5	1023.1	1021.5
15°	1006.5	1006.5	1004.9	1013.1	1011.5
17.5°	990.2	991.8	993.5	1000.1	1001.7
20°	972.0	975.4	977.0	987.0	987.0
22.5°	955.6	957.2	960.6	970.4	970.4
25°	934.3	937.5	944.1	952.3	954.0
27.5°	912.8	914.5	922.7	934.3	935.9
30°	884.8	889.8	899.7	912.8	914.5
32.5°	860.2	865.1	876.6	889.8	893.2
35°	828.9	835.5	848.7	865.1	868.4
37.5°	801.0	805.8	822.3	840.5	845.3
40°	766.6	776.2	792.8	814.1	822.3
42.5°	731.9	741.9	761.6	789.4	799.2
45°	695.8	707.3	731.9	763.2	776.2
47.5°	659.6	672.8	700.7	736.9	751.7
50°	618.4	634.9	669.4	710.5	727.1
52.5°	579.0	598.8	636.5	682.6	704.0
55°	537.7	557.5	606.9	654.7	677.6
57.5°	491.8	518.0	572.4	626.7	651.3
60°	449.1	473.6	539.5	598.8	623.3
62.5°	403.0	435.9	506.6	569.0	593.8
65°	355.3	391.6	472.0	534.5	559.2
67.5°	312.5	352.1	437.5	500.0	524.6
70°	261.5	310.8	399.8	462.1	486.8
72.5°	213.8	268.1	360.3	421.1	444.1
75°	167.7	228.5	319.1	373.4	385.0
77.5°	125.1	189.0	276.3	299.4	291.2
80°	88.8	151.5	215.4	203.8	208.8
82.5°	57.7	115.2	133.3	151.5	156.1
85°	32.9	67.5	82.2	88.8	92.2
87.5°	14.8	24.7	32.9	32.9	31.3
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)