

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: P732289

Luminaire Tested: **24CZ2-50-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-B2750-W2D-4000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

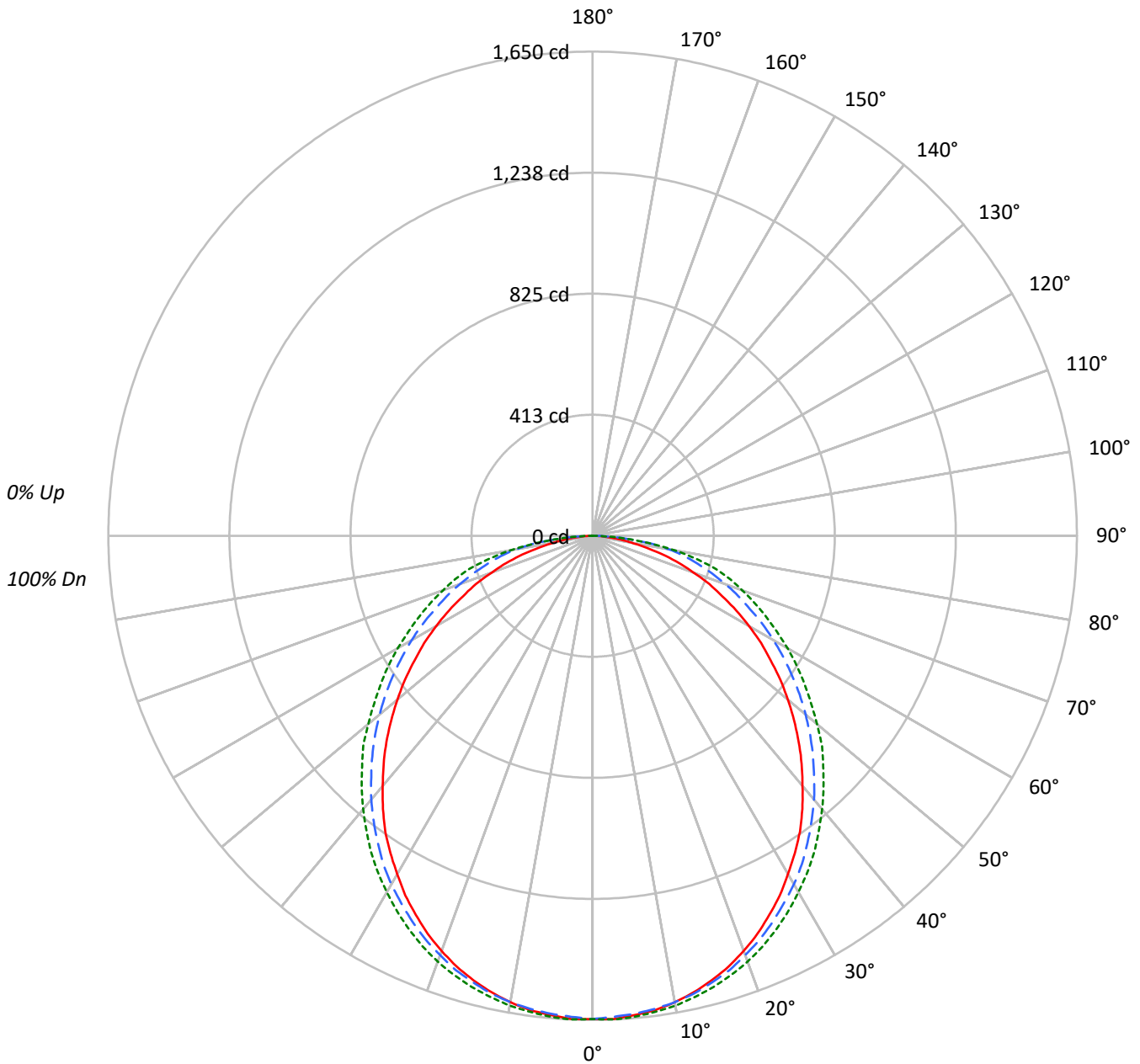
Lumens per Lamp: N/A  
Luminaire Lumens: 4688.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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

TEST NUMBER: P732289

CATALOG NUMBER: 24CZ2-50-B2750-W2D-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732289

CATALOG NUMBER: 24CZ2-50-B2750-W2D-4000K

**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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	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°	2324	2324	2324
5°	2323	2316	2331
10°	2313	2313	2330
15°	2291	2302	2326
20°	2261	2283	2319
25°	2219	2261	2305
30°	2169	2235	2286
35°	2122	2199	2268
40°	2049	2162	2241
45°	1982	2119	2217
50°	1906	2080	2191
55°	1821	2041	2169
60°	1736	2009	2164
65°	1626	1974	2178
70°	1505	1985	2237
75°	1348	2022	2363
80°	1089	2142	2311
85°	819	1880	1833



TEST NUMBER: P732289

CATALOG NUMBER: 24CZ2-50-B2750-W2D-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	3.3
10°-20°	445.5	9.5
20°-30°	669.7	14.3
30°-40°	797.7	17.0
40°-50°	816.4	17.4
50°-60°	735.0	15.7
60°-70°	577.2	12.3
70°-80°	374.6	8.0
80°-90°	115.9	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°	1271.1	27.1
0°-40°	2068.8	44.1
0°-60°	3620.3	77.2
0°-90°	4688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1640	1642	1635	1644	1645	156
15°	1568	1572	1575	1589	1592	442
25°	1425	1437	1452	1476	1480	656
35°	1232	1246	1276	1307	1316	768
45°	993	1017	1062	1102	1111	766
55°	740	773	829	873	882	663
65°	487	524	591	640	652	485
75°	247	295	371	421	433	262
85°	51	94	116	113	113	61
90°	0	0	0	0	0	



TEST NUMBER: P732289

CATALOG NUMBER: 24CZ2-50-B2750-W2D-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1647.0	1647.0	1647.0	1647.0	1647.0
2.5°	1648.4	1648.4	1640.9	1648.4	1649.9
5°	1639.5	1642.5	1635.0	1644.0	1645.4
7.5°	1630.5	1630.5	1626.0	1635.0	1636.6
10°	1614.2	1615.6	1614.2	1624.6	1626.0
12.5°	1593.4	1596.2	1597.8	1608.2	1609.7
15°	1568.1	1572.5	1575.4	1588.9	1591.9
17.5°	1539.7	1544.2	1551.6	1566.4	1569.5
20°	1505.4	1511.4	1520.3	1539.7	1544.2
22.5°	1468.3	1474.2	1489.1	1506.9	1514.4
25°	1425.1	1436.9	1451.8	1475.7	1480.1
27.5°	1381.8	1392.2	1411.6	1436.9	1443.0
30°	1331.2	1347.6	1371.4	1396.7	1402.6
32.5°	1282.1	1298.4	1326.8	1353.7	1361.0
35°	1231.5	1246.4	1276.2	1307.4	1316.3
37.5°	1173.4	1192.7	1225.6	1256.8	1265.8
40°	1112.4	1136.2	1173.4	1206.2	1216.6
42.5°	1054.2	1079.5	1116.8	1152.5	1164.4
45°	993.2	1017.1	1061.8	1101.9	1110.9
47.5°	930.6	957.5	1005.1	1045.3	1060.1
50°	868.2	896.5	947.1	988.7	997.7
52.5°	805.6	835.3	889.0	933.7	938.1
55°	740.1	772.9	829.4	872.7	881.6
57.5°	680.5	708.9	769.9	814.5	824.9
60°	615.0	646.2	711.7	753.5	766.8
62.5°	552.4	585.2	653.8	695.4	707.2
65°	486.9	524.2	591.2	640.3	652.2
67.5°	430.4	466.1	537.5	585.2	597.1
70°	364.7	405.1	481.0	530.2	542.0
72.5°	308.2	349.9	425.9	473.5	491.4
75°	247.2	294.8	370.8	421.4	433.3
77.5°	187.7	242.7	320.1	358.8	358.8
80°	134.0	192.2	263.6	281.5	284.4
82.5°	87.9	144.4	195.0	193.6	193.6
85°	50.6	93.8	116.1	113.2	113.2
87.5°	19.4	38.8	41.6	41.6	40.2
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)