

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: P732293

Luminaire Tested: **24CZ2-50-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-HRP-B2750-W2D-3500K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

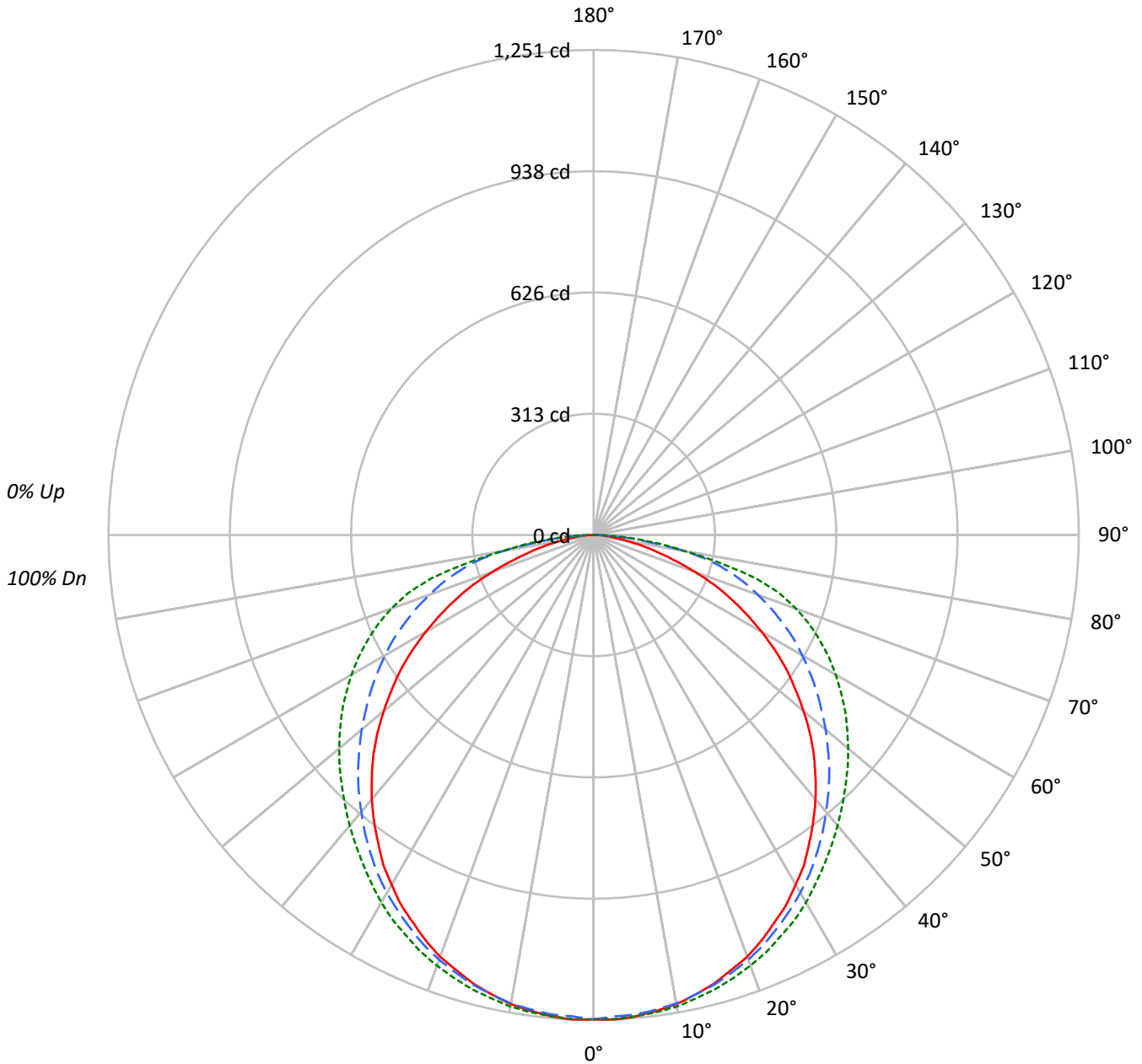
Lumens per Lamp: N/A  
Luminaire Lumens: 3852.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (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									
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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	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	24	35	29	24	23																			

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

	0°	45°	90°
0°	1764	1764	1764
5°	1766	1759	1766
10°	1761	1759	1770
15°	1751	1755	1772
20°	1739	1751	1775
25°	1718	1743	1778
30°	1698	1737	1784
35°	1670	1728	1786
40°	1640	1717	1803
45°	1603	1716	1831
50°	1551	1714	1880
55°	1496	1726	1948
60°	1411	1752	2034
65°	1303	1794	2149
70°	1138	1857	2289
75°	923	1952	2366
80°	681	1914	1914
85°	523	1412	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	3.1
10°-20°	340.0	8.8
20°-30°	517.6	13.4
30°-40°	628.5	16.3
40°-50°	664.0	17.2
50°-60°	626.5	16.3
60°-70°	520.9	13.5
70°-80°	342.7	8.9
80°-90°	93.4	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°	975.9	25.3
0°-40°	1604.4	41.7
0°-60°	2894.9	75.2
0°-90°	3852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1247	1247	1242	1247	1247	118
15°	1198	1200	1201	1213	1213	338
25°	1103	1109	1119	1139	1142	509
35°	969	980	1003	1029	1037	607
45°	803	819	860	901	918	618
55°	608	634	701	768	792	542
65°	390	435	537	616	643	386
75°	169	247	358	424	434	182
85°	32	71	87	97	98	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1249.8	1249.8	1249.8	1249.8	1249.8
2.5°	1251.4	1249.8	1243.3	1249.8	1249.8
5°	1246.6	1246.6	1241.7	1246.6	1246.6
7.5°	1238.5	1238.5	1235.3	1241.7	1241.7
10°	1228.9	1228.9	1227.1	1235.3	1235.3
12.5°	1214.3	1215.9	1214.3	1223.9	1223.9
15°	1198.2	1199.8	1201.4	1212.7	1212.7
17.5°	1177.2	1180.4	1183.6	1196.6	1198.2
20°	1157.9	1159.5	1165.9	1180.4	1182.0
22.5°	1132.0	1137.0	1144.9	1159.5	1164.3
25°	1103.1	1109.4	1119.2	1138.6	1141.7
27.5°	1075.5	1080.5	1093.3	1114.2	1120.8
30°	1041.8	1049.8	1066.0	1086.9	1094.9
32.5°	1009.5	1017.5	1036.8	1059.6	1066.0
35°	969.2	980.4	1003.1	1028.9	1036.8
37.5°	930.5	941.7	969.2	998.2	1007.9
40°	890.1	903.0	932.1	966.0	978.8
42.5°	846.6	864.3	896.6	933.7	948.3
45°	803.1	819.3	859.5	901.4	917.6
47.5°	756.2	775.6	819.3	869.1	888.5
50°	706.4	730.5	780.6	835.4	856.4
52.5°	656.3	683.6	740.1	801.5	824.0
55°	607.9	633.8	701.4	767.6	791.7
57.5°	554.8	586.9	661.1	732.1	756.2
60°	500.0	535.5	620.8	695.0	720.7
62.5°	445.1	485.4	582.1	656.3	683.6
65°	390.3	435.4	537.1	616.0	643.4
67.5°	337.0	387.1	495.0	574.2	601.5
70°	275.8	338.6	449.9	527.3	554.8
72.5°	219.4	292.0	406.4	479.0	503.2
75°	169.3	246.7	358.0	424.2	433.8
77.5°	124.2	201.6	307.9	330.7	332.3
80°	83.8	161.3	235.5	232.1	235.5
82.5°	54.8	120.9	148.4	166.1	167.7
85°	32.3	71.0	87.2	96.7	98.3
87.5°	16.2	24.1	30.7	32.3	35.5
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)