

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: P732292

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732292  
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-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

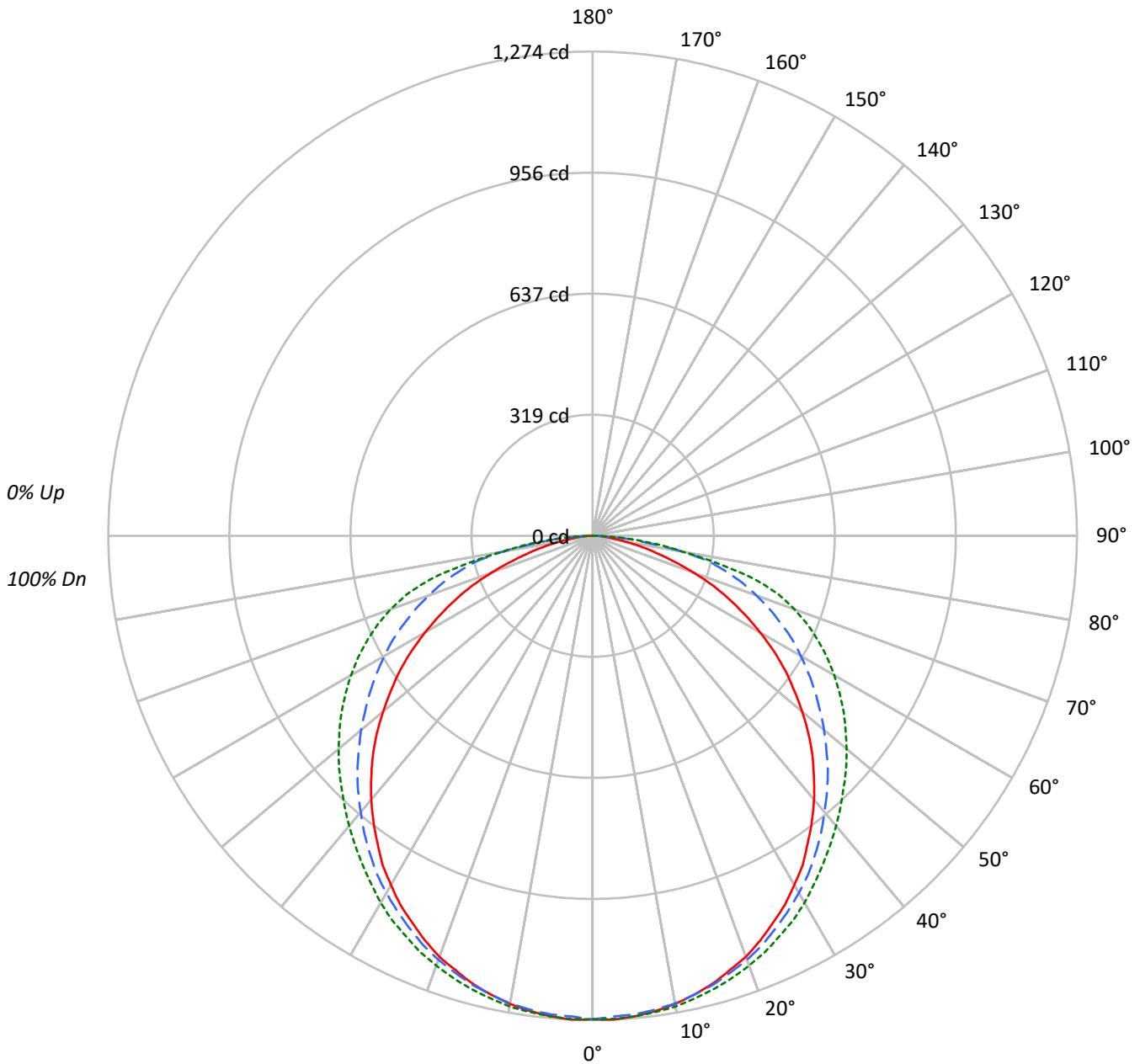
Lumens per Lamp: N/A  
Luminaire Lumens: 3922.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (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

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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	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°	1796	1796	1796
5°	1798	1791	1798
10°	1793	1791	1802
15°	1783	1787	1804
20°	1771	1783	1808
25°	1749	1774	1810
30°	1729	1769	1817
35°	1700	1760	1819
40°	1670	1749	1836
45°	1632	1747	1865
50°	1579	1745	1914
55°	1523	1757	1983
60°	1437	1784	2071
65°	1327	1826	2188
70°	1159	1890	2331
75°	940	1988	2408
80°	693	1949	1949
85°	533	1436	1621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	3.1
10°-20°	346.2	8.8
20°-30°	527.0	13.4
30°-40°	639.9	16.3
40°-50°	676.0	17.2
50°-60°	637.9	16.3
60°-70°	530.4	13.5
70°-80°	349.0	8.9
80°-90°	95.1	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°	993.7	25.3
0°-40°	1633.6	41.7
0°-60°	2947.5	75.2
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1269	1269	1264	1269	1269	121
15°	1220	1222	1223	1235	1235	344
25°	1123	1130	1140	1159	1162	518
35°	987	998	1021	1048	1056	618
45°	818	834	875	918	934	630
55°	619	645	714	782	806	551
65°	397	443	547	627	655	393
75°	172	251	364	432	442	186
85°	33	72	89	98	100	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1272.5	1272.5	1272.5	1272.5	1272.5
2.5°	1274.2	1272.5	1265.8	1272.5	1272.5
5°	1269.3	1269.3	1264.2	1269.3	1269.3
7.5°	1261.0	1261.0	1257.7	1264.2	1264.2
10°	1251.2	1251.2	1249.4	1257.7	1257.7
12.5°	1236.4	1238.0	1236.4	1246.1	1246.1
15°	1220.0	1221.6	1223.2	1234.8	1234.8
17.5°	1198.6	1201.9	1205.1	1218.3	1220.0
20°	1178.9	1180.6	1187.1	1201.9	1203.5
22.5°	1152.5	1157.6	1165.7	1180.6	1185.4
25°	1123.1	1129.6	1139.5	1159.2	1162.5
27.5°	1095.1	1100.2	1113.1	1134.5	1141.2
30°	1060.8	1068.9	1085.3	1106.6	1114.8
32.5°	1027.9	1036.0	1055.7	1078.8	1085.3
35°	986.8	998.2	1021.4	1047.6	1055.7
37.5°	947.5	958.8	986.8	1016.3	1026.2
40°	906.2	919.4	949.1	983.6	996.6
42.5°	862.0	880.0	912.9	950.7	965.5
45°	817.7	834.1	875.2	917.8	934.3
47.5°	770.0	789.7	834.1	884.9	904.6
50°	719.2	743.8	794.8	850.6	871.9
52.5°	668.3	696.1	753.5	816.1	839.0
55°	618.9	645.3	714.1	781.6	806.1
57.5°	564.9	597.6	673.1	745.4	770.0
60°	509.1	545.2	632.1	707.6	733.8
62.5°	453.2	494.2	592.7	668.3	696.1
65°	397.4	443.3	546.8	627.2	655.1
67.5°	343.2	394.1	504.0	584.6	612.4
70°	280.8	344.8	458.1	536.9	564.9
72.5°	223.4	297.3	413.8	487.7	512.3
75°	172.4	251.2	364.5	431.9	441.6
77.5°	126.5	205.3	313.5	336.7	338.3
80°	85.3	164.3	239.8	236.4	239.8
82.5°	55.8	123.1	151.1	169.1	170.8
85°	32.9	72.3	88.7	98.5	100.1
87.5°	16.4	24.6	31.3	32.9	36.1
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)