

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: P880906

Luminaire Tested: **24CZ2-50VHE-HRP-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: P880906  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50VHE-HRP-B2750-W2D-5000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

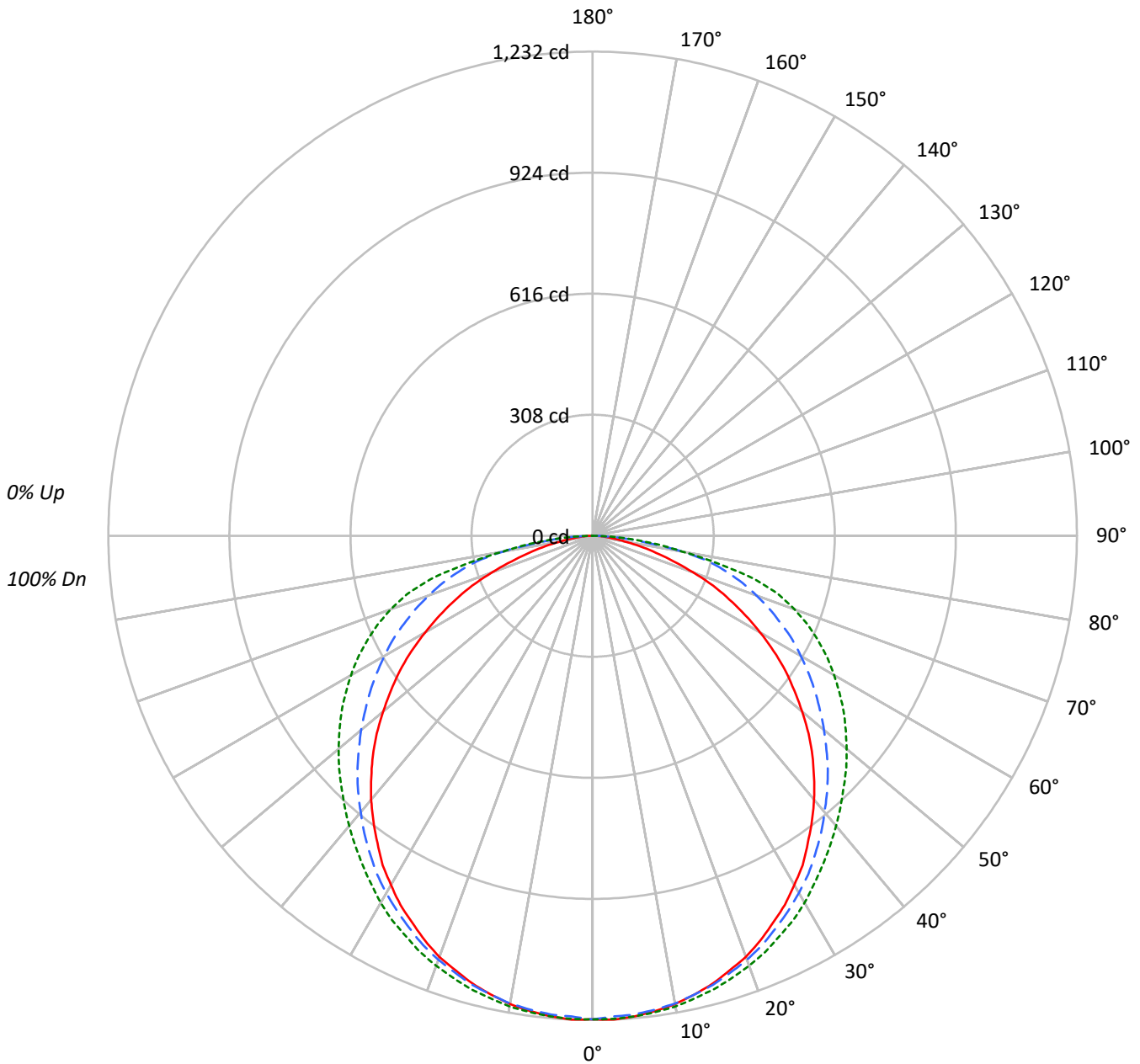
Lumens per Lamp: N/A  
Luminaire Lumens: 3793.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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°	1737	1737	1737
5°	1739	1732	1739
10°	1734	1732	1743
15°	1724	1729	1745
20°	1712	1724	1748
25°	1691	1716	1751
30°	1672	1711	1757
35°	1644	1702	1759
40°	1615	1691	1776
45°	1578	1689	1803
50°	1527	1688	1852
55°	1473	1700	1919
60°	1389	1726	2004
65°	1283	1766	2116
70°	1120	1828	2254
75°	909	1922	2329
80°	671	1885	1885
85°	515	1389	1569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	3.1
10°-20°	334.8	8.8
20°-30°	509.7	13.4
30°-40°	618.8	16.3
40°-50°	653.8	17.2
50°-60°	616.9	16.3
60°-70°	513.0	13.5
70°-80°	337.5	8.9
80°-90°	92.0	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°	961.0	25.3
0°-40°	1579.8	41.7
0°-60°	2850.6	75.2
0°-90°	3793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1228	1228	1223	1228	1228	117
15°	1180	1181	1183	1194	1194	333
25°	1086	1092	1102	1121	1124	501
35°	954	966	988	1013	1021	597
45°	791	807	846	888	904	609
55°	599	624	691	756	780	533
65°	384	429	529	607	634	380
75°	167	243	352	418	427	180
85°	32	70	86	95	97	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1230.6	1230.6	1230.6	1230.6	1230.6
2.5°	1232.2	1230.6	1224.2	1230.6	1230.6
5°	1227.5	1227.5	1222.7	1227.5	1227.5
7.5°	1219.5	1219.5	1216.2	1222.7	1222.7
10°	1210.0	1210.0	1208.4	1216.2	1216.2
12.5°	1195.7	1197.1	1195.7	1205.1	1205.1
15°	1179.8	1181.3	1183.1	1194.2	1194.2
17.5°	1159.3	1162.4	1165.5	1178.2	1179.8
20°	1140.2	1141.6	1148.0	1162.4	1164.0
22.5°	1114.8	1119.5	1127.5	1141.6	1146.6
25°	1086.0	1092.4	1102.0	1121.1	1124.2
27.5°	1059.1	1064.0	1076.6	1097.3	1103.7
30°	1025.8	1033.7	1049.6	1070.2	1078.2
32.5°	994.0	1002.0	1021.1	1043.1	1049.6
35°	954.4	965.5	987.6	1013.1	1021.1
37.5°	916.2	927.3	954.4	982.9	992.6
40°	876.5	889.1	917.9	951.1	963.8
42.5°	833.6	851.1	882.9	919.3	933.7
45°	790.7	806.7	846.2	887.6	903.5
47.5°	744.8	763.9	806.7	856.0	875.0
50°	695.5	719.3	768.6	822.5	843.3
52.5°	646.4	673.3	728.9	789.1	811.5
55°	598.7	624.0	690.7	755.9	779.7
57.5°	546.2	578.1	651.1	720.9	744.8
60°	492.2	527.3	611.3	684.3	709.8
62.5°	438.2	478.0	573.1	646.4	673.3
65°	384.2	428.8	528.8	606.6	633.7
67.5°	331.8	381.1	487.5	565.3	592.2
70°	271.5	333.5	442.9	519.3	546.2
72.5°	216.0	287.5	400.0	471.7	495.5
75°	166.7	243.1	352.5	417.6	427.1
77.5°	122.2	198.5	303.3	325.4	327.1
80°	82.6	158.7	231.9	228.7	231.9
82.5°	54.0	119.1	146.0	163.6	165.1
85°	31.8	70.0	85.8	95.3	96.9
87.5°	15.8	23.8	30.2	31.8	34.9
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)