

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: P880903

Luminaire Tested: **24CZ2-50VHE-HRP-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: P880903  
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-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

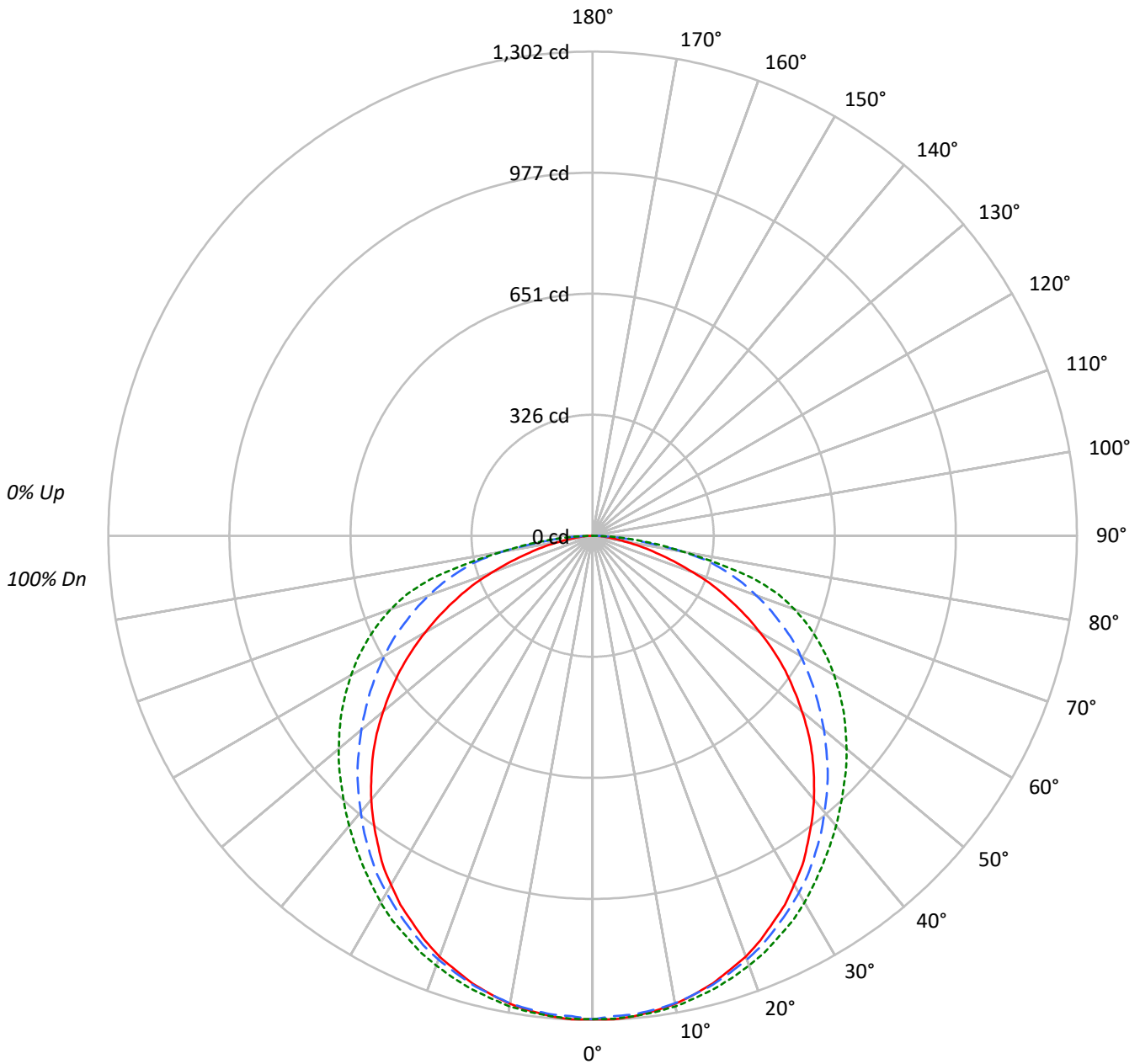
Lumens per Lamp: N/A  
Luminaire Lumens: 4007.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1835	1835	1835
5°	1837	1830	1837
10°	1832	1830	1841
15°	1821	1826	1843
20°	1809	1822	1847
25°	1787	1813	1849
30°	1766	1807	1856
35°	1737	1798	1859
40°	1706	1787	1876
45°	1667	1784	1905
50°	1613	1783	1956
55°	1556	1795	2027
60°	1468	1823	2116
65°	1356	1866	2236
70°	1184	1931	2381
75°	960	2030	2460
80°	710	1991	1991
85°	544	1467	1657



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	3.1
10°-20°	353.7	8.8
20°-30°	538.4	13.4
30°-40°	653.7	16.3
40°-50°	690.7	17.2
50°-60°	651.8	16.3
60°-70°	541.9	13.5
70°-80°	356.5	8.9
80°-90°	97.2	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°	1015.2	25.3
0°-40°	1669.0	41.7
0°-60°	3011.4	75.2
0°-90°	4007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1297	1297	1292	1297	1297	123
15°	1246	1248	1250	1262	1262	352
25°	1147	1154	1164	1184	1188	529
35°	1008	1020	1043	1070	1079	631
45°	835	852	894	938	954	643
55°	632	659	730	799	824	563
65°	406	453	559	641	670	401
75°	176	257	372	441	451	190
85°	34	74	91	101	102	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1300.1	1300.1	1300.1	1300.1	1300.1
2.5°	1301.7	1300.1	1293.3	1300.1	1300.1
5°	1296.8	1296.8	1291.6	1296.8	1296.8
7.5°	1288.3	1288.3	1284.9	1291.6	1291.6
10°	1278.2	1278.2	1276.6	1284.9	1284.9
12.5°	1263.2	1264.7	1263.2	1273.1	1273.1
15°	1246.3	1248.0	1249.8	1261.5	1261.5
17.5°	1224.7	1228.0	1231.3	1244.7	1246.3
20°	1204.5	1206.0	1212.8	1228.0	1229.6
22.5°	1177.7	1182.7	1191.1	1206.0	1211.3
25°	1147.3	1154.1	1164.2	1184.3	1187.6
27.5°	1118.9	1124.0	1137.4	1159.2	1166.0
30°	1083.6	1092.1	1108.8	1130.6	1139.0
32.5°	1050.1	1058.5	1078.7	1102.0	1108.8
35°	1008.2	1020.0	1043.3	1070.2	1078.7
37.5°	967.9	979.6	1008.2	1038.3	1048.6
40°	925.9	939.3	969.7	1004.8	1018.2
42.5°	880.6	899.1	932.7	971.2	986.4
45°	835.3	852.2	894.0	937.6	954.5
47.5°	786.9	807.0	852.2	904.2	924.4
50°	734.8	759.9	812.0	868.9	890.9
52.5°	682.9	711.3	770.0	833.6	857.3
55°	632.4	659.2	729.6	798.6	823.7
57.5°	577.0	610.8	687.8	761.6	786.9
60°	520.0	557.0	645.8	722.9	749.8
62.5°	463.0	504.9	605.5	682.9	711.3
65°	405.9	453.0	558.7	640.9	669.5
67.5°	350.5	402.6	515.0	597.2	625.6
70°	286.9	352.3	467.9	548.6	577.0
72.5°	228.2	303.7	422.6	498.3	523.5
75°	176.1	256.8	372.3	441.1	451.2
77.5°	129.1	209.7	320.4	343.7	345.6
80°	87.3	167.7	245.0	241.6	245.0
82.5°	57.0	125.8	154.3	172.8	174.4
85°	33.6	73.9	90.6	100.7	102.3
87.5°	16.7	25.1	31.9	33.6	36.9
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)