

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: P732318

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732318  
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: 24CZ2-50HE-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**

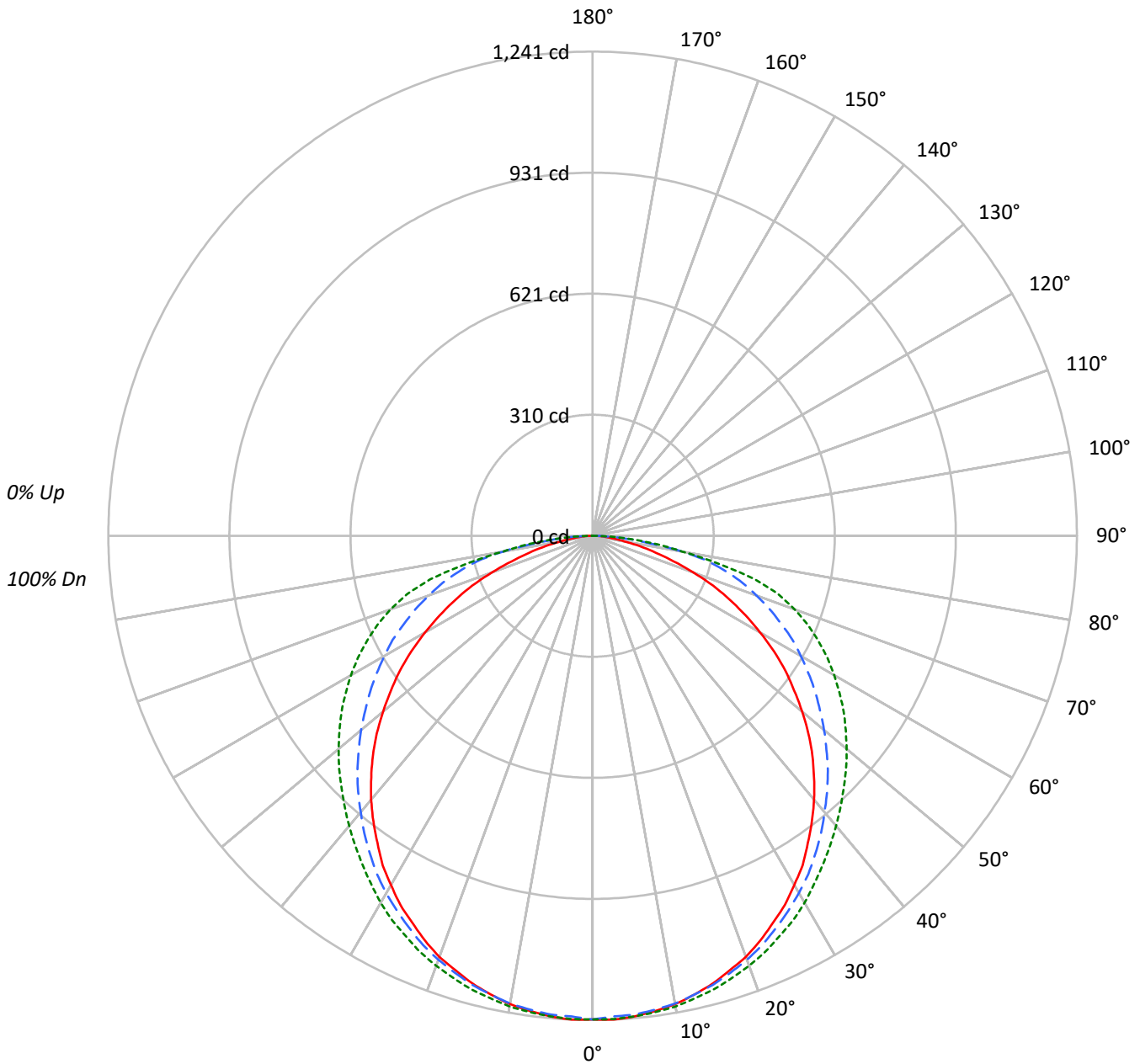
Lumens per Lamp: N/A  
Luminaire Lumens: 3821.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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: P732318

CATALOG NUMBER: 24CZ2-50HE-HRP-B2750-W2D-3500K

### 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°	1750	1750	1750
5°	1752	1745	1752
10°	1747	1744	1756
15°	1737	1741	1758
20°	1725	1737	1761
25°	1704	1729	1764
30°	1684	1723	1770
35°	1656	1714	1772
40°	1627	1703	1789
45°	1590	1702	1817
50°	1538	1700	1865
55°	1484	1712	1933
60°	1400	1738	2018
65°	1293	1779	2131
70°	1129	1842	2271
75°	916	1936	2346
80°	675	1899	1899
85°	518	1399	1579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.4	3.1
10°-20°	337.2	8.8
20°-30°	513.4	13.4
30°-40°	623.4	16.3
40°-50°	658.6	17.2
50°-60°	621.5	16.3
60°-70°	516.7	13.5
70°-80°	340.0	8.9
80°-90°	92.7	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°	968.1	25.3
0°-40°	1591.5	41.7
0°-60°	2871.6	75.2
0°-90°	3821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1237	1237	1232	1237	1237	117
15°	1188	1190	1192	1203	1203	335
25°	1094	1100	1110	1129	1133	505
35°	961	972	995	1021	1028	602
45°	797	813	853	894	910	613
55°	603	629	696	761	785	537
65°	387	432	533	611	638	383
75°	168	245	355	421	430	181
85°	32	70	86	96	98	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1241.4	1239.8	1233.2	1239.8	1239.8
5°	1236.6	1236.6	1231.7	1236.6	1236.6
7.5°	1228.5	1228.5	1225.3	1231.7	1231.7
10°	1219.0	1219.0	1217.2	1225.3	1225.3
12.5°	1204.6	1206.1	1204.6	1214.1	1214.1
15°	1188.5	1190.1	1191.7	1203.0	1203.0
17.5°	1167.8	1170.9	1174.1	1187.0	1188.5
20°	1148.6	1150.2	1156.5	1170.9	1172.5
22.5°	1122.9	1127.8	1135.7	1150.2	1154.9
25°	1094.2	1100.5	1110.2	1129.4	1132.6
27.5°	1066.9	1071.8	1084.5	1105.3	1111.8
30°	1033.4	1041.4	1057.4	1078.2	1086.1
32.5°	1001.4	1009.3	1028.5	1051.0	1057.4
35°	961.4	972.5	995.1	1020.6	1028.5
37.5°	923.1	934.1	961.4	990.1	999.8
40°	882.9	895.8	924.6	958.3	970.9
42.5°	839.8	857.4	889.4	926.2	940.7
45°	796.6	812.7	852.6	894.2	910.2
47.5°	750.2	769.3	812.7	862.1	881.3
50°	700.7	724.6	774.3	828.7	849.5
52.5°	651.0	678.1	734.1	795.1	817.4
55°	603.0	628.7	695.8	761.4	785.4
57.5°	550.4	582.2	655.8	726.2	750.2
60°	495.9	531.2	615.8	689.4	714.9
62.5°	441.5	481.5	577.5	651.0	678.1
65°	387.1	431.9	532.7	611.1	638.2
67.5°	334.3	384.0	491.0	569.5	596.6
70°	273.6	335.9	446.3	523.1	550.4
72.5°	217.6	289.6	403.2	475.2	499.1
75°	168.0	244.7	355.1	420.8	430.3
77.5°	123.2	200.0	305.4	328.0	329.6
80°	83.1	160.0	233.6	230.3	233.6
82.5°	54.4	119.9	147.2	164.8	166.4
85°	32.0	70.4	86.4	95.9	97.5
87.5°	16.0	23.9	30.5	32.0	35.2
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)