

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: P732294

Luminaire Tested: **24CZ2-50-HRP-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732294  
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-4000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

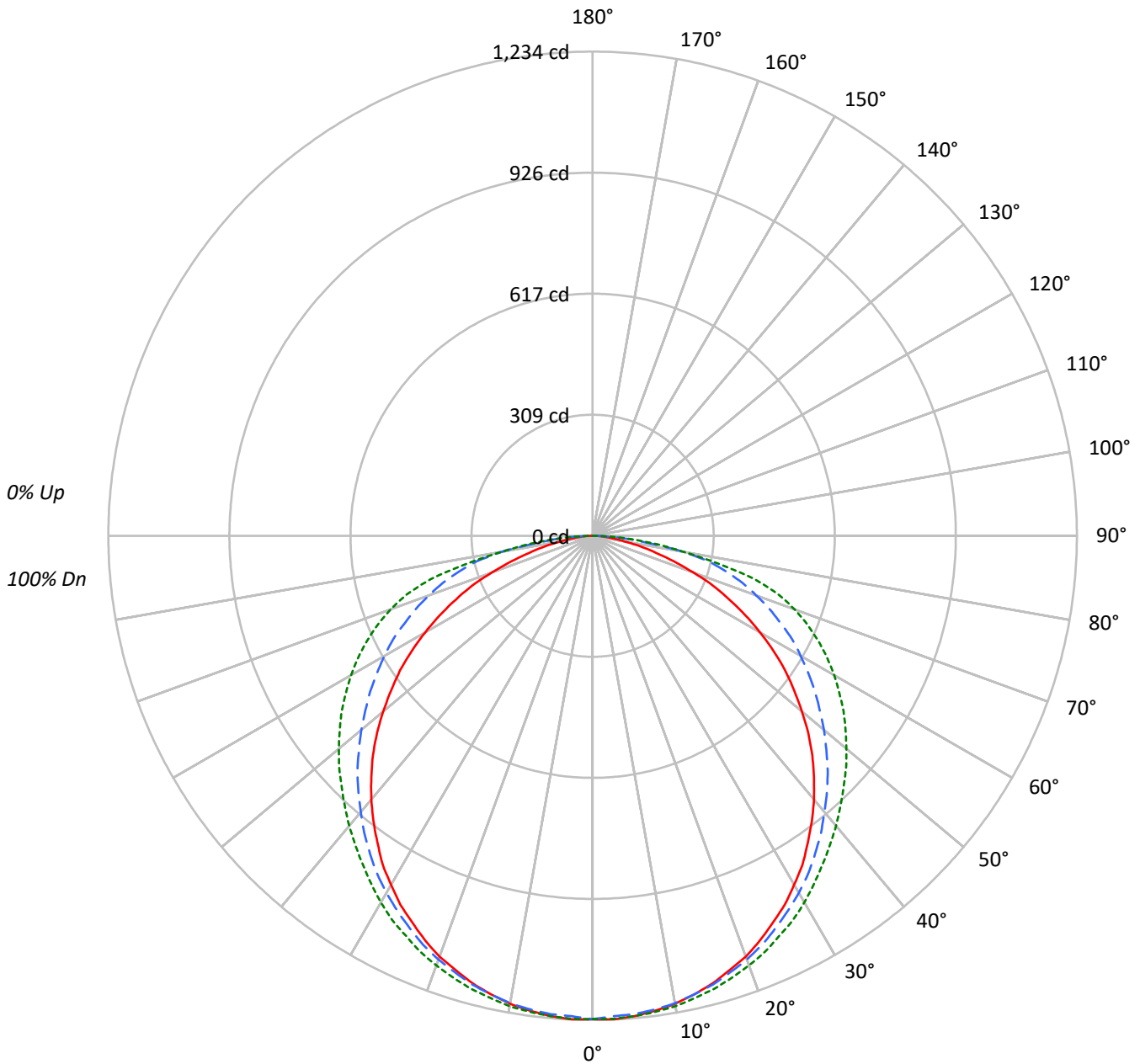
Lumens per Lamp: N/A  
Luminaire Lumens: 3797.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732294

CATALOG NUMBER: 24CZ2-50-HRP-B2750-W2D-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732294

CATALOG NUMBER: 24CZ2-50-HRP-B2750-W2D-4000K

**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°	1739	1739	1739
5°	1741	1734	1741
10°	1736	1733	1745
15°	1726	1730	1747
20°	1714	1726	1750
25°	1693	1718	1753
30°	1674	1712	1759
35°	1646	1704	1761
40°	1616	1693	1778
45°	1580	1691	1805
50°	1529	1689	1853
55°	1474	1701	1920
60°	1391	1727	2006
65°	1285	1768	2118
70°	1122	1830	2257
75°	910	1924	2332
80°	671	1887	1887
85°	515	1391	1569



TEST NUMBER: P732294

CATALOG NUMBER: 24CZ2-50-HRP-B2750-W2D-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	3.1
10°-20°	335.1	8.8
20°-30°	510.2	13.4
30°-40°	619.5	16.3
40°-50°	654.5	17.2
50°-60°	617.6	16.3
60°-70°	513.5	13.5
70°-80°	337.9	8.9
80°-90°	92.1	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°	962.0	25.3
0°-40°	1581.5	41.7
0°-60°	2853.5	75.2
0°-90°	3797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1229	1229	1224	1229	1229	117
15°	1181	1183	1184	1195	1195	333
25°	1087	1094	1103	1122	1125	502
35°	955	966	989	1014	1022	598
45°	792	808	847	889	904	610
55°	599	625	691	757	780	534
65°	385	429	529	607	634	380
75°	167	243	353	418	428	180
85°	32	70	86	95	97	39
90°	0	0	0	0	0	



TEST NUMBER: P732294

CATALOG NUMBER: 24CZ2-50-HRP-B2750-W2D-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1232.0	1232.0	1232.0	1232.0	1232.0
2.5°	1233.6	1232.0	1225.5	1232.0	1232.0
5°	1228.8	1228.8	1223.9	1228.8	1228.8
7.5°	1220.8	1220.8	1217.6	1223.9	1223.9
10°	1211.3	1211.3	1209.6	1217.6	1217.6
12.5°	1197.0	1198.6	1197.0	1206.4	1206.4
15°	1181.1	1182.6	1184.2	1195.4	1195.4
17.5°	1160.4	1163.6	1166.7	1179.5	1181.1
20°	1141.4	1142.9	1149.2	1163.6	1165.1
22.5°	1115.8	1120.7	1128.6	1142.9	1147.7
25°	1087.3	1093.6	1103.2	1122.3	1125.4
27.5°	1060.2	1065.1	1077.7	1098.3	1104.8
30°	1027.0	1034.8	1050.7	1071.4	1079.2
32.5°	995.1	1003.0	1022.0	1044.4	1050.7
35°	955.4	966.4	988.8	1014.2	1022.0
37.5°	917.3	928.3	955.4	983.9	993.5
40°	877.4	890.1	918.8	952.2	964.8
42.5°	834.5	852.0	883.8	920.4	934.8
45°	791.6	807.6	847.3	888.6	904.5
47.5°	745.4	764.5	807.6	856.7	875.8
50°	696.3	720.1	769.4	823.5	844.1
52.5°	647.0	673.9	729.5	790.1	812.3
55°	599.2	624.7	691.4	756.6	780.4
57.5°	546.9	578.5	651.7	721.7	745.4
60°	492.8	527.8	612.0	685.1	710.5
62.5°	438.8	478.5	573.8	647.0	673.9
65°	384.7	429.1	529.4	607.2	634.2
67.5°	332.2	381.6	487.9	566.0	592.9
70°	271.9	333.8	443.5	519.8	546.9
72.5°	216.2	287.8	400.6	472.2	496.0
75°	166.9	243.2	352.9	418.1	427.6
77.5°	122.5	198.7	303.5	325.9	327.5
80°	82.6	159.0	232.2	228.8	232.2
82.5°	54.1	119.1	146.3	163.8	165.3
85°	31.8	70.0	85.9	95.3	96.9
87.5°	15.9	23.8	30.3	31.8	35.0
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)