

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: P732302

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-S-B2750-W2D-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

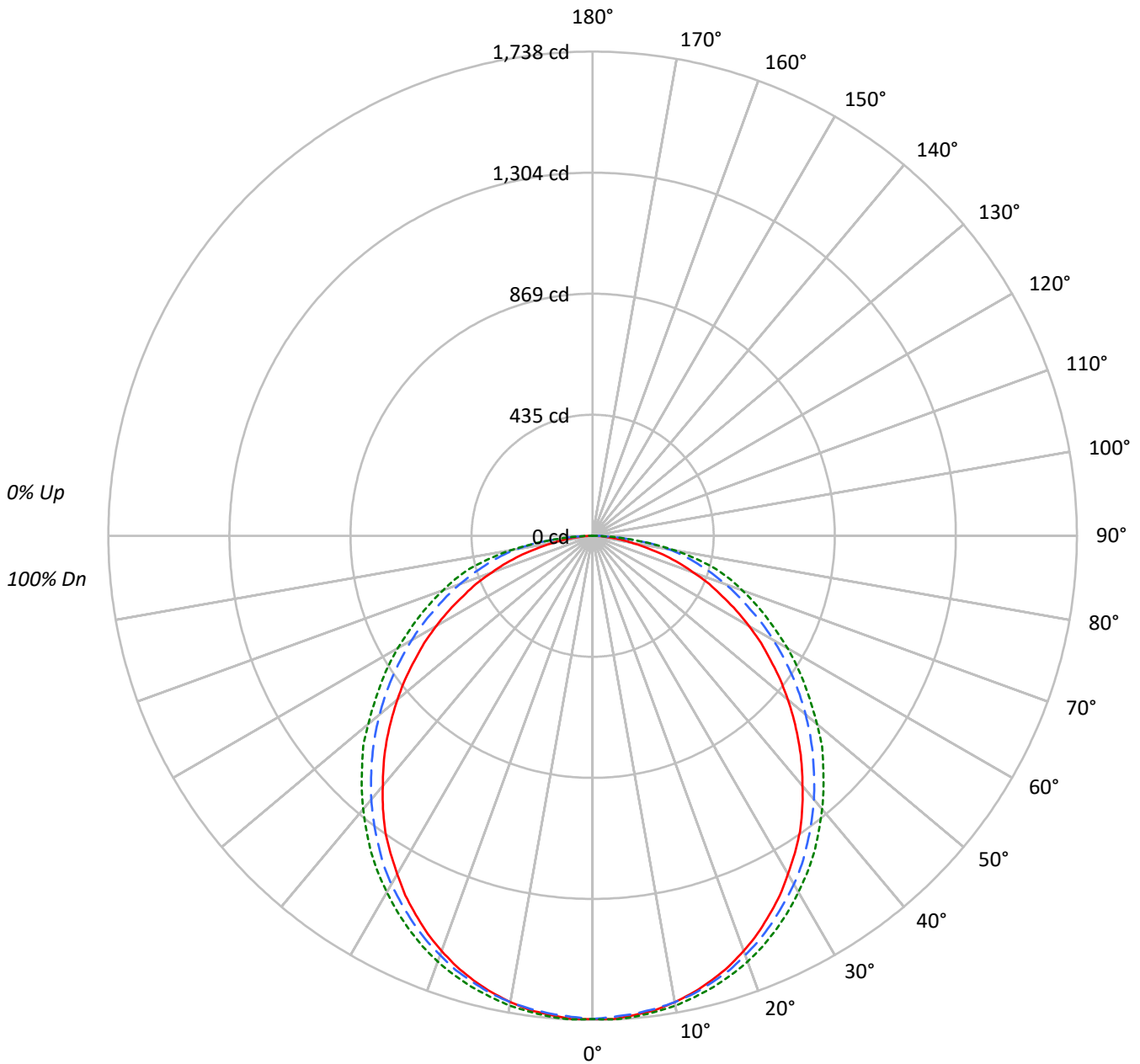
Lumens per Lamp: N/A  
Luminaire Lumens: 4938.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P732302

CATALOG NUMBER: 24CZ2-50-S-B2750-W2D-3000K

### 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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2448	2448	2448
5°	2447	2440	2455
10°	2437	2437	2454
15°	2413	2425	2450
20°	2382	2405	2443
25°	2338	2381	2428
30°	2285	2354	2408
35°	2235	2316	2389
40°	2159	2277	2361
45°	2088	2232	2336
50°	2008	2190	2307
55°	1918	2150	2285
60°	1829	2116	2280
65°	1713	2080	2294
70°	1585	2091	2356
75°	1420	2130	2489
80°	1148	2256	2434
85°	863	1980	1930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.2	3.3
10°-20°	469.3	9.5
20°-30°	705.4	14.3
30°-40°	840.2	17.0
40°-50°	860.0	17.4
50°-60°	774.2	15.7
60°-70°	608.0	12.3
70°-80°	394.6	8.0
80°-90°	122.0	2.5
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°	1338.9	27.1
0°-40°	2179.1	44.1
0°-60°	3813.3	77.2
0°-90°	4938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1727	1730	1722	1732	1733	164
15°	1652	1656	1659	1674	1677	466
25°	1501	1514	1529	1554	1559	691
35°	1297	1313	1344	1377	1386	809
45°	1046	1071	1118	1161	1170	807
55°	780	814	874	919	929	699
65°	513	552	623	674	687	511
75°	260	310	391	444	456	276
85°	53	99	122	119	119	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1734.8	1734.8	1734.8	1734.8	1734.8
2.5°	1736.3	1736.3	1728.4	1736.3	1737.9
5°	1726.9	1730.1	1722.2	1731.6	1733.1
7.5°	1717.4	1717.4	1712.7	1722.2	1723.9
10°	1700.2	1701.8	1700.2	1711.2	1712.7
12.5°	1678.3	1681.4	1683.1	1694.0	1695.5
15°	1651.7	1656.4	1659.4	1673.6	1676.8
17.5°	1621.8	1626.5	1634.3	1650.0	1653.2
20°	1585.7	1592.0	1601.4	1621.8	1626.5
22.5°	1546.6	1552.8	1568.5	1587.2	1595.2
25°	1501.1	1513.5	1529.2	1554.4	1559.1
27.5°	1455.5	1466.5	1486.9	1513.5	1520.0
30°	1402.2	1419.4	1444.6	1471.2	1477.4
32.5°	1350.4	1367.6	1397.5	1425.9	1433.6
35°	1297.2	1312.8	1344.2	1377.1	1386.5
37.5°	1235.9	1256.3	1290.9	1323.8	1333.3
40°	1171.7	1196.8	1235.9	1270.5	1281.5
42.5°	1110.4	1137.1	1176.4	1214.0	1226.5
45°	1046.2	1071.3	1118.4	1160.7	1170.2
47.5°	980.2	1008.6	1058.7	1101.0	1116.7
50°	914.5	944.3	997.6	1041.5	1050.9
52.5°	848.5	879.9	936.4	983.4	988.2
55°	779.5	814.1	873.7	919.2	928.6
57.5°	716.8	746.7	810.9	858.0	868.9
60°	647.8	680.7	749.7	793.7	807.7
62.5°	581.9	616.5	688.6	732.5	745.0
65°	512.9	552.2	622.7	674.5	686.9
67.5°	453.4	491.0	566.2	616.5	628.9
70°	384.2	426.7	506.7	558.4	570.9
72.5°	324.7	368.5	448.6	498.7	517.6
75°	260.4	310.5	390.6	443.9	456.4
77.5°	197.7	255.7	337.1	378.0	378.0
80°	141.2	202.4	277.6	296.5	299.5
82.5°	92.6	152.1	205.4	203.9	203.9
85°	53.3	98.8	122.3	119.2	119.2
87.5°	20.4	40.8	43.8	43.8	42.3
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)