

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: P732237

Luminaire Tested: **24CZ2-45-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732237  
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: 24CZ2-45-B2750-W2D-3000K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

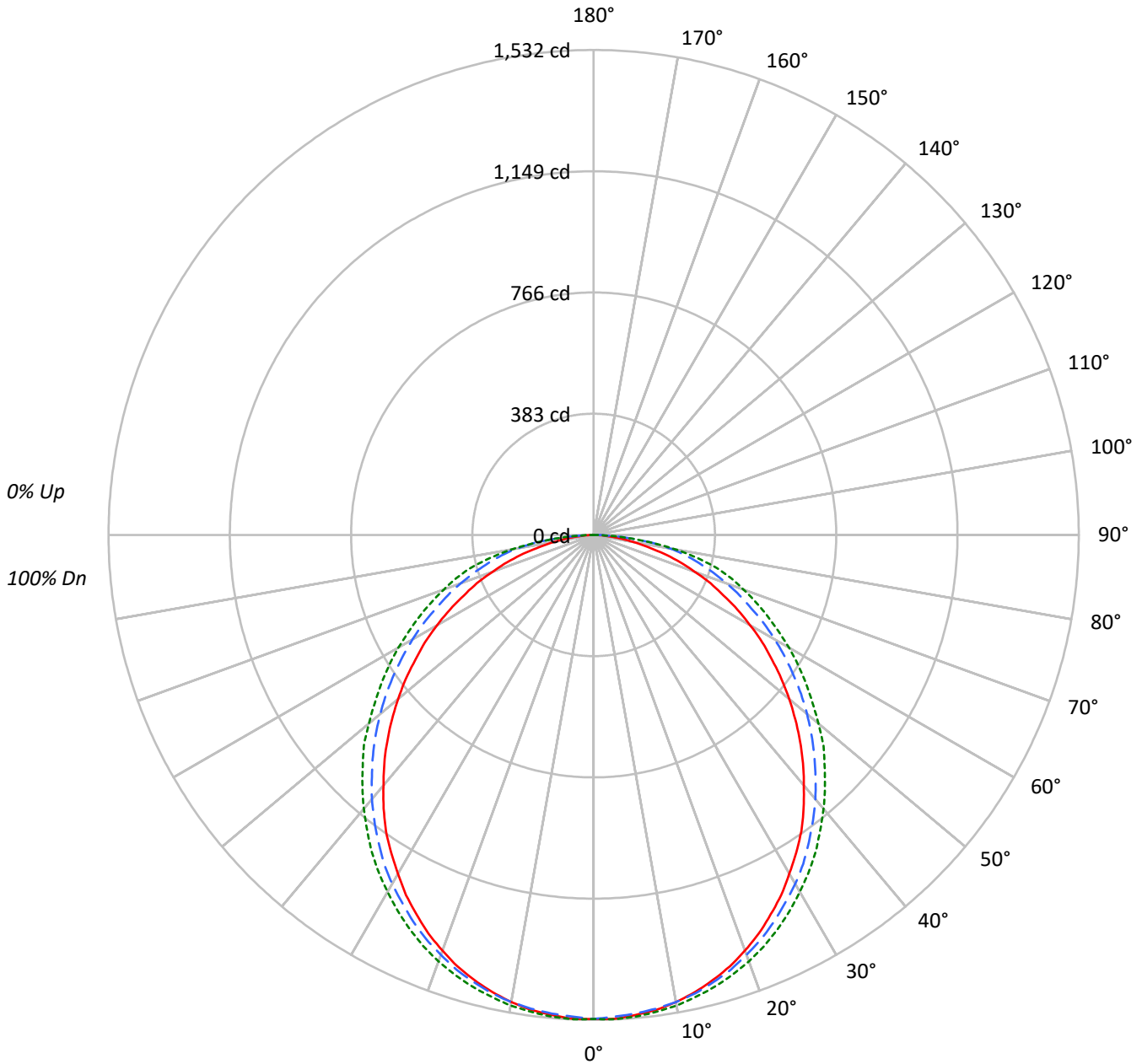
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4352.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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): 36  
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

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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	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°	2158	2158	2158
5°	2156	2150	2164
10°	2148	2148	2163
15°	2127	2137	2159
20°	2099	2120	2153
25°	2060	2099	2140
30°	2014	2075	2122
35°	1970	2041	2105
40°	1902	2007	2081
45°	1840	1967	2058
50°	1770	1930	2034
55°	1690	1895	2014
60°	1611	1865	2009
65°	1509	1833	2022
70°	1397	1842	2076
75°	1251	1877	2193
80°	1011	1989	2146
85°	761	1746	1702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	3.3
10°-20°	413.6	9.5
20°-30°	621.7	14.3
30°-40°	740.5	17.0
40°-50°	757.9	17.4
50°-60°	682.4	15.7
60°-70°	535.9	12.3
70°-80°	347.8	8.0
80°-90°	107.6	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°	1180.0	27.1
0°-40°	1920.5	44.1
0°-60°	3360.8	77.2
0°-90°	4352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1522	1525	1518	1526	1528	145
15°	1456	1460	1462	1475	1478	410
25°	1323	1334	1348	1370	1374	609
35°	1143	1157	1185	1214	1222	713
45°	922	944	986	1023	1031	711
55°	687	718	770	810	818	616
65°	452	487	549	594	605	450
75°	230	274	344	391	402	243
85°	47	87	108	105	105	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1529.0	1529.0	1529.0	1529.0	1529.0
2.5°	1530.3	1530.3	1523.3	1530.3	1531.6
5°	1522.0	1524.8	1517.8	1526.1	1527.5
7.5°	1513.6	1513.6	1509.5	1517.8	1519.3
10°	1498.5	1499.8	1498.5	1508.1	1509.5
12.5°	1479.2	1481.8	1483.3	1493.0	1494.3
15°	1455.7	1459.8	1462.5	1475.0	1477.8
17.5°	1429.4	1433.5	1440.4	1454.2	1457.0
20°	1397.5	1403.0	1411.4	1429.4	1433.5
22.5°	1363.1	1368.6	1382.4	1398.9	1405.9
25°	1322.9	1333.9	1347.7	1369.9	1374.1
27.5°	1282.8	1292.5	1310.4	1333.9	1339.6
30°	1235.8	1251.0	1273.1	1296.6	1302.1
32.5°	1190.2	1205.3	1231.7	1256.6	1263.5
35°	1143.2	1157.0	1184.7	1213.7	1222.0
37.5°	1089.3	1107.2	1137.7	1166.7	1175.0
40°	1032.6	1054.8	1089.3	1119.7	1129.4
42.5°	978.7	1002.1	1036.8	1069.9	1080.9
45°	922.0	944.2	985.7	1023.0	1031.3
47.5°	863.9	888.9	933.0	970.3	984.2
50°	806.0	832.3	879.2	917.9	926.2
52.5°	747.8	775.5	825.3	866.7	870.9
55°	687.0	717.5	770.0	810.1	818.4
57.5°	631.7	658.1	714.7	756.2	765.8
60°	570.9	599.9	660.7	699.5	711.8
62.5°	512.8	543.3	606.9	645.6	656.6
65°	452.0	486.7	548.8	594.4	605.4
67.5°	399.6	432.7	499.0	543.3	554.3
70°	338.6	376.1	446.5	492.2	503.2
72.5°	286.1	324.8	395.4	439.5	456.2
75°	229.5	273.6	344.3	391.2	402.2
77.5°	174.2	225.3	297.1	333.1	333.1
80°	124.4	178.4	244.7	261.3	264.0
82.5°	81.6	134.1	181.0	179.7	179.7
85°	47.0	87.1	107.8	105.1	105.1
87.5°	18.0	36.0	38.6	38.6	37.3
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)