

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: P843076

Luminaire Tested: **24CZ2-45-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843076  
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-S-UNV-B35  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

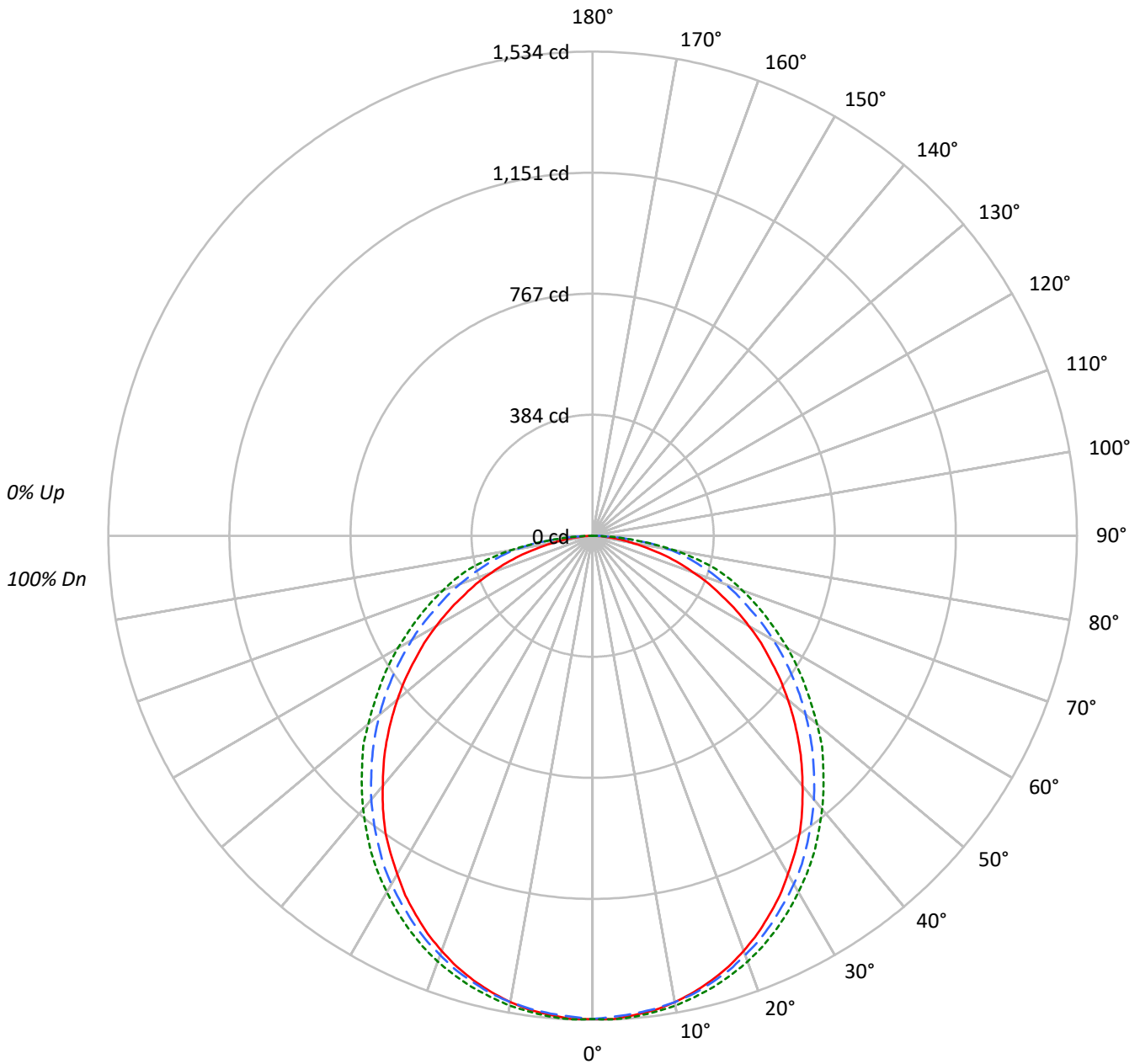
Lumens per Lamp: N/A  
Luminaire Lumens: 4358.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (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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CATALOG NUMBER: 24CZ2-45-S-UNV-B35

### 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°	2161	2161	2161
5°	2159	2153	2167
10°	2150	2150	2166
15°	2130	2140	2162
20°	2102	2123	2156
25°	2063	2102	2143
30°	2017	2078	2125
35°	1972	2044	2108
40°	1905	2010	2084
45°	1843	1970	2061
50°	1772	1933	2036
55°	1693	1897	2017
60°	1614	1867	2012
65°	1511	1835	2025
70°	1399	1845	2079
75°	1253	1880	2196
80°	1013	1991	2149
85°	761	1747	1704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	3.3
10°-20°	414.1	9.5
20°-30°	622.5	14.3
30°-40°	741.6	17.0
40°-50°	758.9	17.4
50°-60°	683.3	15.7
60°-70°	536.6	12.3
70°-80°	348.2	8.0
80°-90°	107.7	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°	1181.6	27.1
0°-40°	1923.2	44.1
0°-60°	3365.4	77.2
0°-90°	4358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4358.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1524	1527	1520	1528	1530	145
15°	1458	1462	1464	1477	1480	411
25°	1325	1336	1350	1372	1376	610
35°	1145	1159	1186	1215	1224	714
45°	923	946	987	1024	1033	712
55°	688	718	771	811	820	617
65°	453	487	550	595	606	451
75°	230	274	345	392	403	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°	1531.1	1531.1	1531.1	1531.1	1531.1
2.5°	1532.4	1532.4	1525.4	1532.4	1533.7
5°	1524.1	1526.9	1519.9	1528.2	1529.6
7.5°	1515.7	1515.7	1511.6	1519.9	1521.4
10°	1500.5	1501.9	1500.5	1510.2	1511.6
12.5°	1481.2	1483.9	1485.4	1495.0	1496.4
15°	1457.7	1461.9	1464.5	1477.0	1479.9
17.5°	1431.3	1435.5	1442.3	1456.2	1459.0
20°	1399.5	1405.0	1413.3	1431.3	1435.5
22.5°	1364.9	1370.5	1384.3	1400.8	1407.8
25°	1324.8	1335.8	1349.6	1371.8	1376.0
27.5°	1284.6	1294.2	1312.2	1335.8	1341.4
30°	1237.5	1252.7	1274.9	1298.4	1303.9
32.5°	1191.8	1207.0	1233.4	1258.4	1265.2
35°	1144.8	1158.6	1186.3	1215.3	1223.7
37.5°	1090.8	1108.8	1139.3	1168.3	1176.7
40°	1034.1	1056.2	1090.8	1121.3	1131.0
42.5°	980.0	1003.5	1038.2	1071.4	1082.4
45°	923.3	945.5	987.0	1024.4	1032.7
47.5°	865.1	890.1	934.3	971.7	985.5
50°	807.1	833.4	880.4	919.1	927.5
52.5°	748.9	776.5	826.4	867.9	872.1
55°	688.0	718.5	771.0	811.2	819.6
57.5°	632.6	659.0	715.7	757.2	766.9
60°	571.7	600.8	661.6	700.5	712.8
62.5°	513.5	544.0	607.8	646.4	657.5
65°	452.6	487.3	549.5	595.2	606.3
67.5°	400.1	433.3	499.7	544.0	555.1
70°	339.1	376.6	447.1	492.8	503.9
72.5°	286.5	325.2	395.9	440.1	456.8
75°	229.8	274.0	344.7	391.8	402.8
77.5°	174.5	225.7	297.5	333.6	333.6
80°	124.6	178.6	245.0	261.7	264.4
82.5°	81.7	134.3	181.3	180.0	180.0
85°	47.0	87.2	107.9	105.2	105.2
87.5°	18.0	36.0	38.7	38.7	37.4
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)