

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: P732251

Luminaire Tested: **24CZ2-45-S-B2750-W2D-2700K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732251  
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-B2750-W2D-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

**Summary**

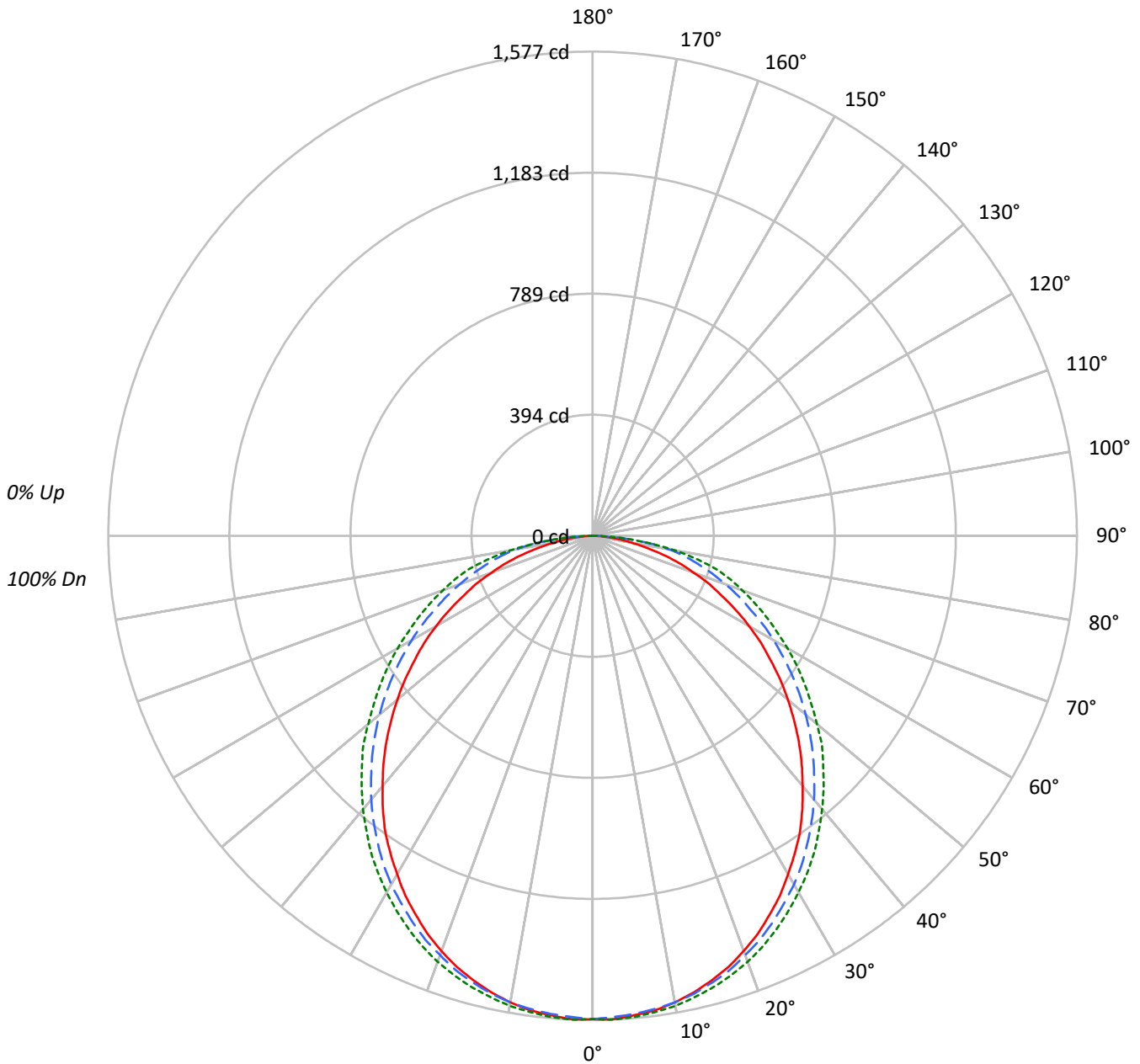
Lumens per Lamp: N/A  
Luminaire Lumens: 4482.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	2222	2222	2222
5°	2221	2214	2229
10°	2212	2212	2228
15°	2191	2201	2224
20°	2162	2183	2217
25°	2122	2161	2204
30°	2074	2137	2185
35°	2029	2102	2168
40°	1959	2067	2143
45°	1895	2026	2120
50°	1822	1988	2094
55°	1741	1951	2074
60°	1660	1921	2069
65°	1555	1887	2082
70°	1439	1898	2138
75°	1289	1933	2259
80°	1041	2048	2210
85°	784	1797	1752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	425.9	9.5
20°-30°	640.3	14.3
30°-40°	762.7	17.0
40°-50°	780.5	17.4
50°-60°	702.7	15.7
60°-70°	551.9	12.3
70°-80°	358.2	8.0
80°-90°	110.8	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°	1215.3	27.1
0°-40°	1977.9	44.1
0°-60°	3461.2	77.2
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1567	1570	1563	1572	1573	149
15°	1499	1503	1506	1519	1522	423
25°	1362	1374	1388	1411	1415	628
35°	1177	1192	1220	1250	1258	734
45°	950	972	1015	1054	1062	732
55°	708	739	793	834	843	634
65°	466	501	565	612	624	463
75°	236	282	354	403	414	250
85°	48	90	111	108	108	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1574.6	1574.6	1574.6	1574.6	1574.6
2.5°	1576.0	1576.0	1568.8	1576.0	1577.4
5°	1567.4	1570.3	1563.1	1571.7	1573.1
7.5°	1558.8	1558.8	1554.6	1563.1	1564.7
10°	1543.2	1544.6	1543.2	1553.2	1554.6
12.5°	1523.3	1526.1	1527.6	1537.6	1539.0
15°	1499.2	1503.4	1506.2	1519.1	1522.0
17.5°	1472.1	1476.3	1483.4	1497.6	1500.5
20°	1439.3	1445.0	1453.5	1472.1	1476.3
22.5°	1403.8	1409.4	1423.7	1440.7	1447.9
25°	1362.4	1373.8	1388.0	1410.8	1415.1
27.5°	1321.1	1331.1	1349.6	1373.8	1379.6
30°	1272.7	1288.3	1311.2	1335.3	1341.0
32.5°	1225.7	1241.3	1268.5	1294.2	1301.2
35°	1177.4	1191.6	1220.1	1249.9	1258.5
37.5°	1121.8	1140.3	1171.7	1201.6	1210.1
40°	1063.5	1086.3	1121.8	1153.2	1163.1
42.5°	1007.9	1032.1	1067.8	1101.9	1113.2
45°	949.6	972.4	1015.1	1053.5	1062.1
47.5°	889.7	915.4	960.9	999.3	1013.6
50°	830.0	857.1	905.5	945.3	953.9
52.5°	770.2	798.6	849.9	892.6	896.9
55°	707.6	738.9	793.0	834.3	842.9
57.5°	650.6	677.7	736.0	778.7	788.7
60°	588.0	617.8	680.5	720.4	733.1
62.5°	528.1	559.5	625.0	664.8	676.2
65°	465.5	501.2	565.2	612.2	623.5
67.5°	411.5	445.6	513.9	559.5	570.8
70°	348.7	387.3	459.9	506.9	518.2
72.5°	294.7	334.5	407.2	452.7	469.8
75°	236.4	281.8	354.5	402.9	414.2
77.5°	179.4	232.1	306.0	343.1	343.1
80°	128.1	183.7	252.0	269.1	271.9
82.5°	84.0	138.1	186.5	185.1	185.1
85°	48.4	89.7	111.0	108.2	108.2
87.5°	18.5	37.1	39.8	39.8	38.4
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)