

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798107

Luminaire Tested: 24CZSB-SCT3-S-UNV-MID-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSB-SCT3-S-UNV-MID-4000K  
Description: Cruze SB Selectable Troffer  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

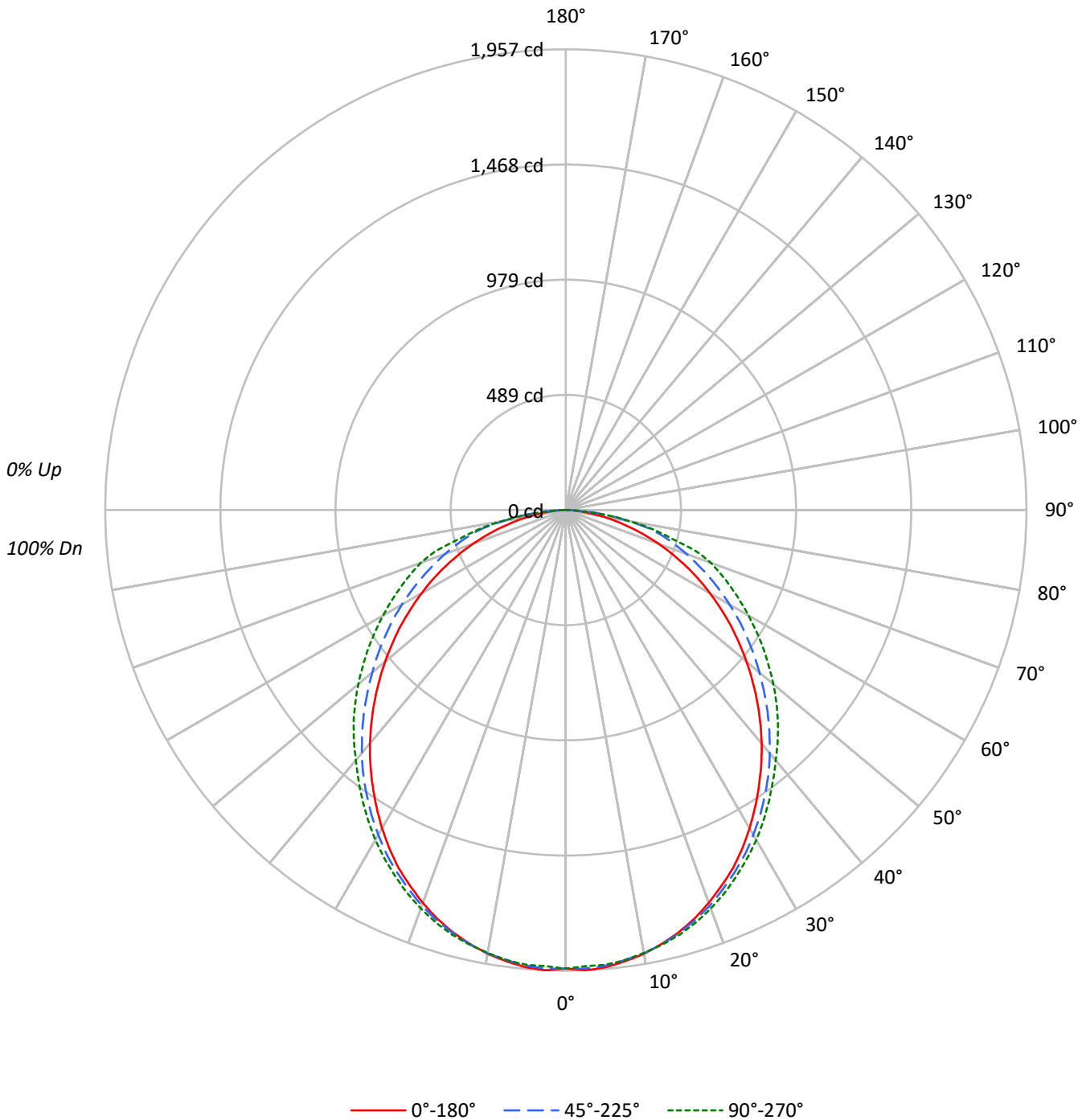
Lumens per Lamp: N/A  
Luminaire Lumens: 5380.8 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
Input Voltage (V): 120  
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: 24 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	69	
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	60	58	
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	50	
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	45	43	
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	38	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	35	33	
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	32	30	
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	29	27	
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	26	24	

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

	0°	45°	90°
0°	2621	2621	2621
5°	2633	2623	2619
10°	2615	2613	2610
15°	2586	2591	2601
20°	2543	2561	2579
25°	2493	2520	2547
30°	2426	2476	2515
35°	2349	2423	2473
40°	2273	2368	2437
45°	2187	2306	2426
50°	2099	2249	2409
55°	2007	2201	2403
60°	1903	2163	2414
65°	1790	2137	2462
70°	1649	2148	2578
75°	1461	2224	2401
80°	1222	2109	2165
85°	911	1687	1548

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 72.5°  
 Luminance: 2595 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.2	3.4
10°-20°	523.8	9.7
20°-30°	780.6	14.5
30°-40°	918.9	17.1
40°-50°	933.8	17.4
50°-60°	839.5	15.6
60°-70°	663.2	12.3
70°-80°	420.8	7.8
80°-90°	116.1	2.2
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°	1488.5	27.7
0°-40°	2407.4	44.7
0°-60°	4180.7	77.7
0°-90°	5380.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5380.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1950	1934	1942	1939	1939	185
15°	1857	1848	1860	1865	1868	523
25°	1679	1678	1697	1708	1715	772
35°	1430	1440	1475	1492	1506	895
45°	1149	1166	1212	1248	1275	887
55°	856	877	938	999	1024	764
65°	562	591	671	745	773	557
75°	281	329	428	465	462	299
85°	59	102	109	100	100	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1947.9	1947.9	1947.9	1947.9	1947.9
2.5°	1956.9	1942.4	1949.8	1946.1	1939.0
5°	1949.8	1933.6	1942.4	1939.0	1939.0
7.5°	1933.6	1921.0	1928.1	1926.5	1928.1
10°	1913.8	1901.4	1912.2	1912.2	1910.4
12.5°	1887.1	1876.3	1888.9	1888.9	1890.6
15°	1856.6	1847.8	1860.3	1865.4	1867.5
17.5°	1819.1	1810.1	1826.2	1831.5	1837.0
20°	1776.0	1772.5	1788.5	1794.0	1801.1
22.5°	1727.8	1727.8	1743.7	1750.9	1761.7
25°	1679.4	1677.5	1697.3	1708.2	1715.3
27.5°	1622.0	1624.0	1648.9	1659.8	1668.7
30°	1561.3	1564.8	1593.4	1606.1	1618.5
32.5°	1496.8	1503.9	1536.2	1550.5	1563.0
35°	1430.4	1439.6	1475.2	1491.5	1505.8
37.5°	1364.3	1376.9	1414.5	1430.4	1446.7
40°	1294.4	1305.2	1348.1	1367.7	1387.5
42.5°	1222.9	1237.2	1280.1	1308.7	1332.2
45°	1149.4	1165.5	1212.1	1248.0	1274.8
47.5°	1076.1	1097.5	1142.3	1190.7	1213.9
50°	1002.6	1024.2	1074.2	1128.0	1151.1
52.5°	927.4	949.0	1006.2	1061.6	1086.7
55°	855.7	877.4	938.2	999.1	1024.2
57.5°	780.6	803.9	872.0	934.6	959.5
60°	707.2	730.3	803.9	870.0	897.0
62.5°	635.7	660.7	737.7	807.5	834.3
65°	562.2	590.8	671.3	744.8	773.4
67.5°	490.6	522.8	607.0	684.0	714.4
70°	419.1	456.6	546.1	624.9	655.4
72.5°	349.2	390.3	485.2	563.9	580.0
75°	281.0	329.4	427.9	465.4	461.8
77.5°	216.7	270.2	363.5	370.7	381.3
80°	157.7	216.7	272.2	286.5	279.4
82.5°	103.8	163.0	195.2	187.9	186.3
85°	59.0	102.1	109.3	100.3	100.3
87.5°	25.1	41.1	35.9	26.8	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)