

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: P798092

Luminaire Tested: 24CZSB-SCT3-HRP-UNV-HIGH-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345038)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSB-SCT3-HRP-UNV-HIGH-4000K  
Description: Cruze SB Selectable Troffer  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

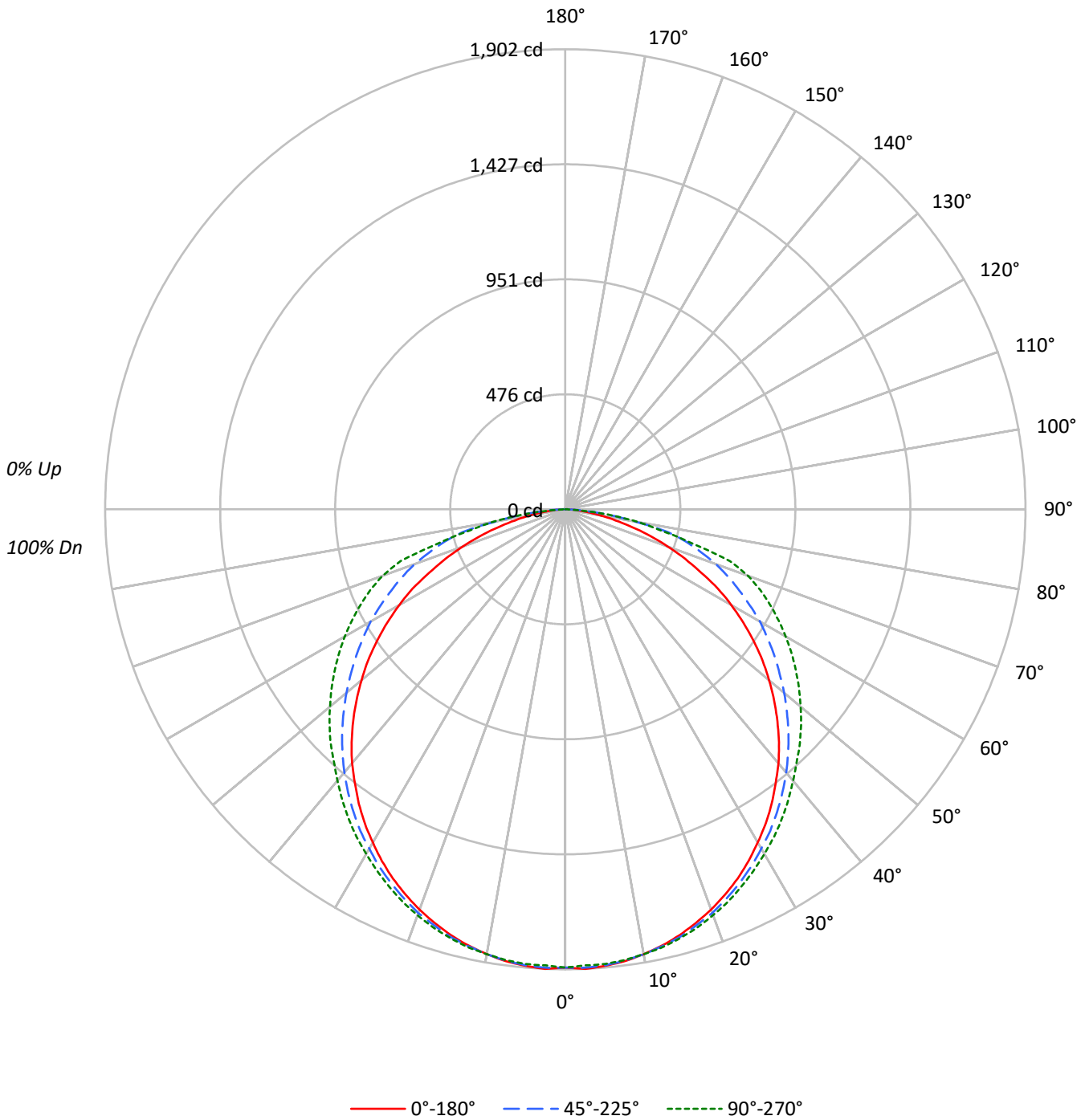
Lumens per Lamp: N/A  
Luminaire Lumens: 5767.0 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.1  
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				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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	30	30	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	2549	2549	2549
5°	2559	2556	2549
10°	2552	2552	2552
15°	2540	2550	2557
20°	2522	2543	2557
25°	2501	2531	2556
30°	2472	2518	2556
35°	2443	2508	2564
40°	2408	2495	2573
45°	2360	2482	2609
50°	2301	2472	2658
55°	2231	2474	2730
60°	2134	2499	2832
65°	1974	2525	2973
70°	1779	2605	3159
75°	1502	2684	2825
80°	1168	2297	2373
85°	840	1565	1371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 72.5°  
 Luminance: 3195 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	3.1
10°-20°	515.7	8.9
20°-30°	784.3	13.6
30°-40°	952.9	16.5
40°-50°	1005.7	17.4
50°-60°	945.0	16.4
60°-70°	778.0	13.5
70°-80°	490.1	8.5
80°-90°	115.7	2.0
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°	1479.6	25.7
0°-40°	2432.5	42.2
0°-60°	4383.2	76.0
0°-90°	5767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1895	1885	1892	1890	1887	180
15°	1823	1816	1830	1836	1836	514
25°	1685	1682	1705	1714	1722	776
35°	1487	1495	1527	1546	1561	930
45°	1240	1260	1304	1342	1371	956
55°	951	986	1055	1129	1164	849
65°	620	679	793	894	934	616
75°	289	378	516	563	543	309
85°	54	91	101	94	89	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1902.2	1889.9	1897.2	1894.7	1887.4
5°	1894.7	1884.9	1892.2	1889.9	1887.4
7.5°	1884.9	1875.1	1882.4	1879.9	1879.9
10°	1867.6	1860.1	1867.6	1867.6	1867.6
12.5°	1847.8	1840.5	1850.3	1852.8	1855.3
15°	1823.2	1815.7	1830.5	1835.5	1835.5
17.5°	1793.6	1788.6	1803.4	1808.4	1813.2
20°	1761.5	1759.0	1776.3	1781.1	1786.1
22.5°	1724.4	1724.4	1741.7	1746.5	1756.5
25°	1684.7	1682.2	1704.6	1714.3	1721.9
27.5°	1640.3	1640.3	1665.1	1677.4	1684.7
30°	1590.9	1595.9	1620.5	1635.3	1645.3
32.5°	1541.5	1546.5	1576.1	1593.4	1605.7
35°	1487.3	1494.6	1526.7	1546.5	1561.3
37.5°	1427.8	1440.4	1474.7	1497.1	1514.4
40°	1371.1	1380.9	1420.5	1445.1	1464.9
42.5°	1306.9	1324.2	1363.6	1393.2	1415.5
45°	1240.2	1260.0	1304.4	1341.5	1371.1
47.5°	1170.9	1195.7	1242.7	1292.1	1321.7
50°	1099.4	1126.5	1180.9	1240.2	1269.8
52.5°	1027.7	1057.3	1116.7	1185.7	1217.8
55°	951.1	985.7	1054.8	1129.0	1163.6
57.5°	872.1	911.5	990.5	1074.6	1109.2
60°	793.1	835.0	928.8	1012.8	1052.5
62.5°	711.5	758.4	859.8	956.1	993.0
65°	620.0	679.4	793.1	894.2	933.8
67.5°	536.1	597.9	728.8	830.0	872.1
70°	452.1	523.6	662.1	763.4	802.9
72.5°	368.1	452.1	587.8	691.7	714.0
75°	289.0	378.1	516.3	563.2	543.4
77.5°	212.5	311.3	434.8	410.2	405.2
80°	150.8	247.1	296.5	298.8	306.3
82.5°	96.3	182.9	192.7	195.2	197.7
85°	54.4	91.3	101.4	93.8	88.8
87.5°	24.6	29.6	24.6	17.3	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)