

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: P798087

Luminaire Tested: 24CZSB-SCT3-UNV-MID-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSB-SCT3-UNV-MID-3000K  
Description: Cruze SB Selectable Troffer  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

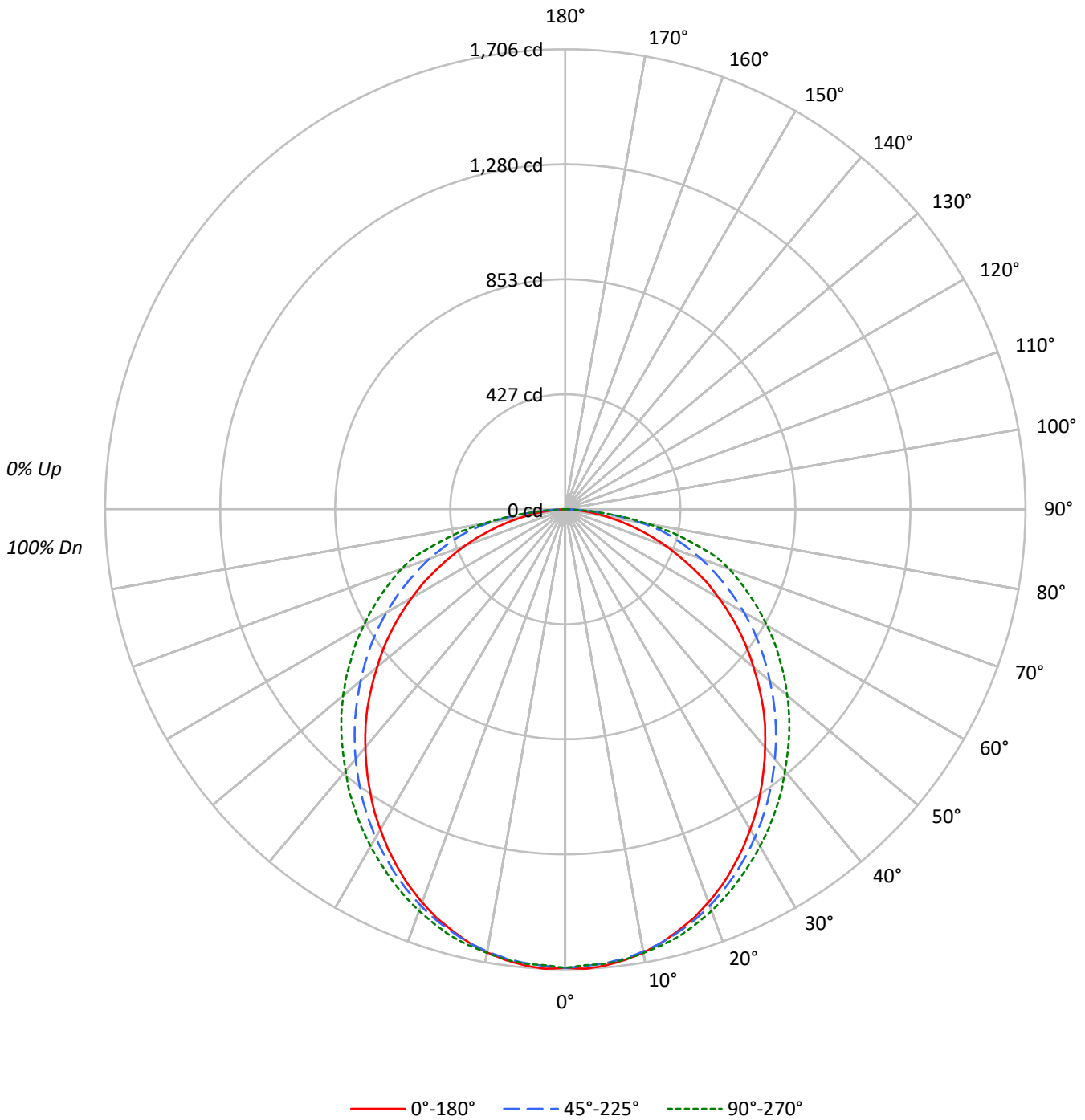
Lumens per Lamp: N/A  
Luminaire Lumens: 4956.0 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.8  
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	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	94	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	82
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	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	51	51	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	2288	2288	2288
5°	2294	2282	2285
10°	2280	2275	2283
15°	2253	2260	2282
20°	2221	2241	2269
25°	2179	2214	2255
30°	2130	2184	2243
35°	2078	2154	2234
40°	2024	2124	2225
45°	1973	2097	2234
50°	1906	2073	2249
55°	1846	2063	2275
60°	1769	2059	2322
65°	1671	2063	2401
70°	1564	2105	2546
75°	1408	2191	2570
80°	1190	2189	2404
85°	922	1775	1765

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 72.5°  
 Luminance: 2619 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	3.2
10°-20°	458.6	9.3
20°-30°	687.7	13.9
30°-40°	821.6	16.6
40°-50°	852.8	17.2
50°-60°	787.5	15.9
60°-70°	639.9	12.9
70°-80°	423.5	8.5
80°-90°	123.6	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°	1307.2	26.4
0°-40°	2128.7	43.0
0°-60°	3769.0	76.0
0°-90°	4956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1698	1694	1690	1694	1692	161
15°	1618	1616	1623	1638	1638	456
25°	1468	1473	1491	1514	1519	676
35°	1265	1281	1311	1347	1360	792
45°	1037	1056	1102	1156	1174	799
55°	787	815	880	949	970	703
65°	525	566	648	728	754	521
75°	271	327	422	484	494	287
85°	60	103	115	114	114	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	1705.8	1701.5	1695.6	1700.7	1692.7
5°	1698.5	1694.2	1689.8	1694.2	1692.0
7.5°	1686.2	1682.5	1680.3	1686.2	1684.7
10°	1668.7	1664.3	1665.1	1673.1	1670.9
12.5°	1646.1	1643.9	1646.9	1656.3	1655.6
15°	1617.7	1616.3	1622.8	1638.1	1638.1
17.5°	1587.9	1586.4	1596.6	1611.9	1612.6
20°	1551.5	1552.9	1565.3	1580.6	1585.0
22.5°	1512.2	1514.3	1529.6	1547.1	1553.7
25°	1467.8	1472.9	1491.1	1513.6	1518.7
27.5°	1421.9	1428.4	1449.6	1475.0	1481.6
30°	1370.9	1379.7	1405.9	1435.0	1443.7
32.5°	1320.7	1333.8	1359.3	1392.0	1403.0
35°	1265.4	1281.4	1311.2	1346.9	1360.0
37.5°	1209.3	1227.5	1260.3	1301.0	1316.3
40°	1152.5	1172.2	1209.3	1252.3	1266.8
42.5°	1096.4	1116.1	1156.1	1204.2	1220.2
45°	1036.7	1056.4	1102.3	1156.1	1174.3
47.5°	973.4	998.2	1046.2	1107.4	1125.6
50°	910.8	937.7	990.2	1054.2	1074.6
52.5°	850.4	876.6	935.5	1002.5	1023.6
55°	787.0	814.7	879.5	948.7	969.8
57.5°	723.0	753.5	822.7	894.0	919.5
60°	657.4	691.6	765.2	838.7	862.7
62.5°	594.8	628.3	706.9	783.4	809.6
65°	524.9	566.4	648.0	728.1	754.3
67.5°	458.7	504.5	591.2	673.4	699.7
70°	397.5	446.3	535.1	616.7	647.2
72.5°	332.7	385.1	476.9	559.1	585.4
75°	270.8	326.9	421.5	484.2	494.3
77.5°	211.1	270.1	361.1	401.2	410.6
80°	153.6	216.2	282.5	312.3	310.2
82.5°	102.7	163.8	203.1	211.1	212.6
85°	59.7	103.4	115.0	114.3	114.3
87.5°	25.5	42.2	37.1	33.5	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)