

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: P798367

Luminaire Tested: 14CZSB-SCT3-S-UNV-HIGH-4000K

Issue Date: 3/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSB-SCT3-S-UNV-HIGH-4000K  
Description: Cruze SB Selectable Troffer  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

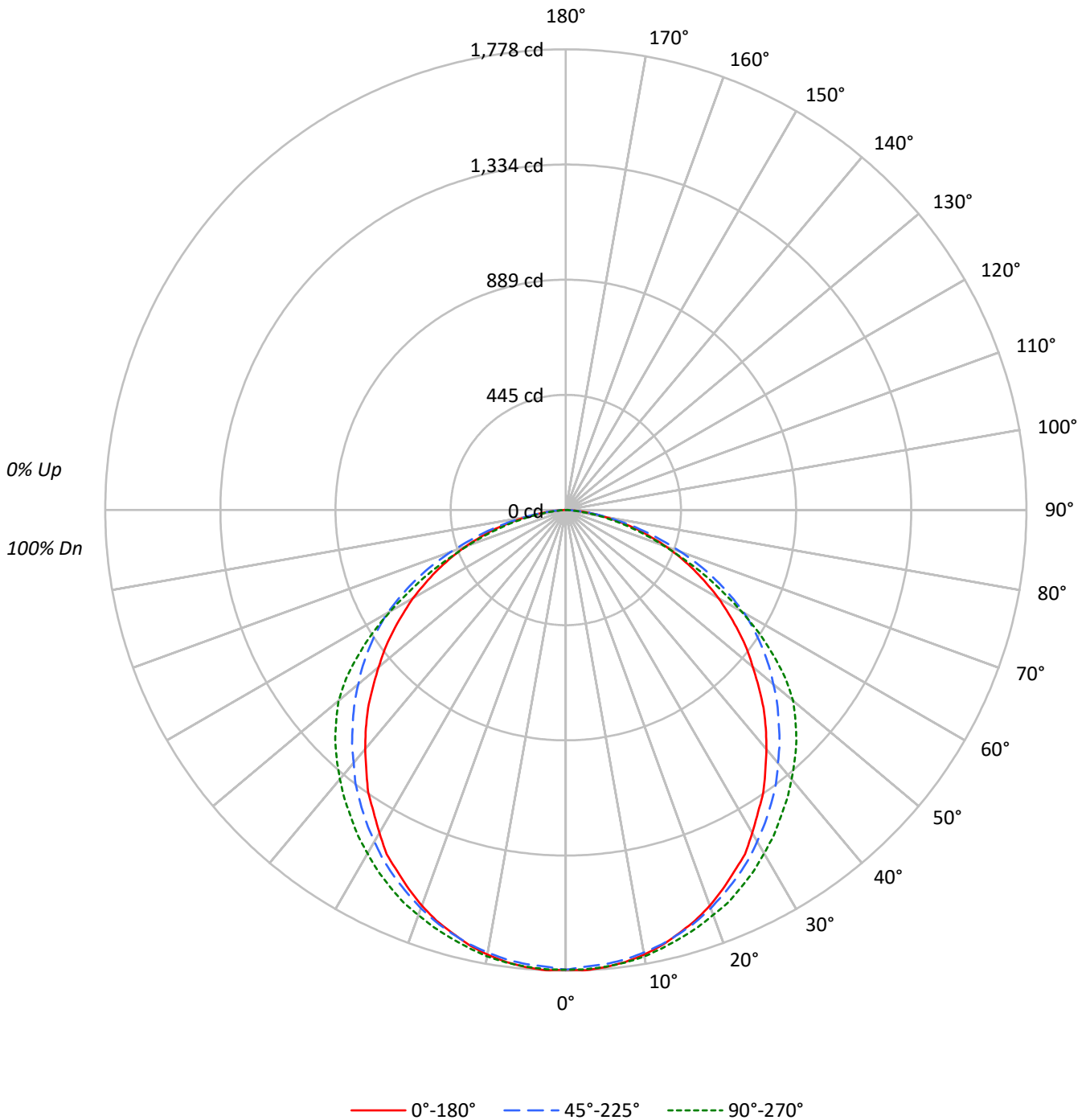
Lumens per Lamp: N/A  
Luminaire Lumens: 4919.9 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.7  
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

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

	0°	45°	90°
0°	2387	2387	2387
5°	2392	2376	2390
10°	2381	2369	2390
15°	2355	2358	2383
20°	2327	2341	2382
25°	2284	2321	2383
30°	2235	2296	2378
35°	2184	2270	2375
40°	2116	2238	2382
45°	2053	2212	2395
50°	1973	2189	2396
55°	1907	2172	2296
60°	1833	2140	2105
65°	1734	2038	1873
70°	1619	1852	1582
75°	1461	1614	1328
80°	1175	1267	1012
85°	835	726	526

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 50°  
 Luminance: 2396 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.9	3.4
10°-20°	479.5	9.7
20°-30°	723.5	14.7
30°-40°	867.4	17.6
40°-50°	900.2	18.3
50°-60°	812.7	16.5
60°-70°	591.9	12.0
70°-80°	310.4	6.3
80°-90°	66.4	1.3
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°	1370.9	27.9
0°-40°	2238.3	45.5
0°-60°	3951.2	80.3
0°-90°	4919.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4919.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1771	1767	1759	1771	1769	168
15°	1691	1691	1693	1712	1711	477
25°	1539	1547	1564	1598	1605	709
35°	1330	1342	1382	1434	1446	829
45°	1079	1102	1162	1235	1259	831
55°	813	841	926	981	979	727
65°	545	578	640	611	588	539
75°	281	321	310	268	255	296
85°	54	65	47	36	34	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1774.0	1774.0	1774.0	1774.0	1774.0
2.5°	1777.8	1773.0	1763.6	1775.2	1774.0
5°	1770.7	1767.1	1759.1	1770.7	1769.4
7.5°	1759.1	1756.5	1749.5	1762.3	1761.1
10°	1742.4	1738.8	1734.3	1748.2	1749.5
12.5°	1720.1	1718.9	1716.4	1731.8	1730.5
15°	1690.6	1690.6	1692.9	1711.8	1710.8
17.5°	1661.3	1661.3	1667.1	1688.3	1689.3
20°	1624.9	1627.2	1635.3	1661.3	1663.5
22.5°	1583.5	1586.0	1600.1	1633.0	1639.0
25°	1538.7	1547.1	1563.5	1597.6	1604.9
27.5°	1497.5	1498.8	1523.6	1561.2	1570.6
30°	1438.7	1455.4	1477.6	1521.3	1530.6
32.5°	1381.1	1397.7	1431.9	1478.9	1491.7
35°	1329.5	1342.2	1382.3	1434.1	1446.0
37.5°	1264.8	1285.8	1332.8	1387.1	1403.6
40°	1204.7	1223.4	1274.2	1335.3	1356.3
42.5°	1142.3	1163.5	1221.4	1287.1	1308.3
45°	1078.9	1102.4	1162.5	1235.3	1258.8
47.5°	1009.4	1039.0	1106.9	1181.2	1202.4
50°	942.4	972.8	1045.8	1123.6	1144.8
52.5°	881.0	908.3	988.2	1059.9	1069.3
55°	813.1	841.4	925.8	981.4	978.8
57.5°	744.9	776.4	861.3	895.2	885.8
60°	681.2	710.5	795.1	802.5	782.3
62.5°	610.7	644.8	716.6	705.9	681.2
65°	544.7	577.8	640.0	610.7	588.2
67.5°	477.5	512.9	557.6	514.2	488.1
70°	411.6	454.0	470.7	423.7	402.2
72.5°	344.6	389.4	388.1	343.4	325.9
75°	281.0	321.1	310.5	268.3	255.4
77.5°	214.0	254.2	234.0	202.4	190.5
80°	151.6	189.5	163.5	138.7	130.6
82.5°	103.3	125.8	102.3	81.1	77.6
85°	54.1	64.7	47.0	36.4	34.1
87.5°	20.0	18.7	16.7	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)