

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: P798371

Luminaire Tested: 14CZSB-SCT3-S-UNV-MID-3000K

Issue Date: 3/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798371  
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-MID-3000K  
Description: Cruze SB Selectable Troffer  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

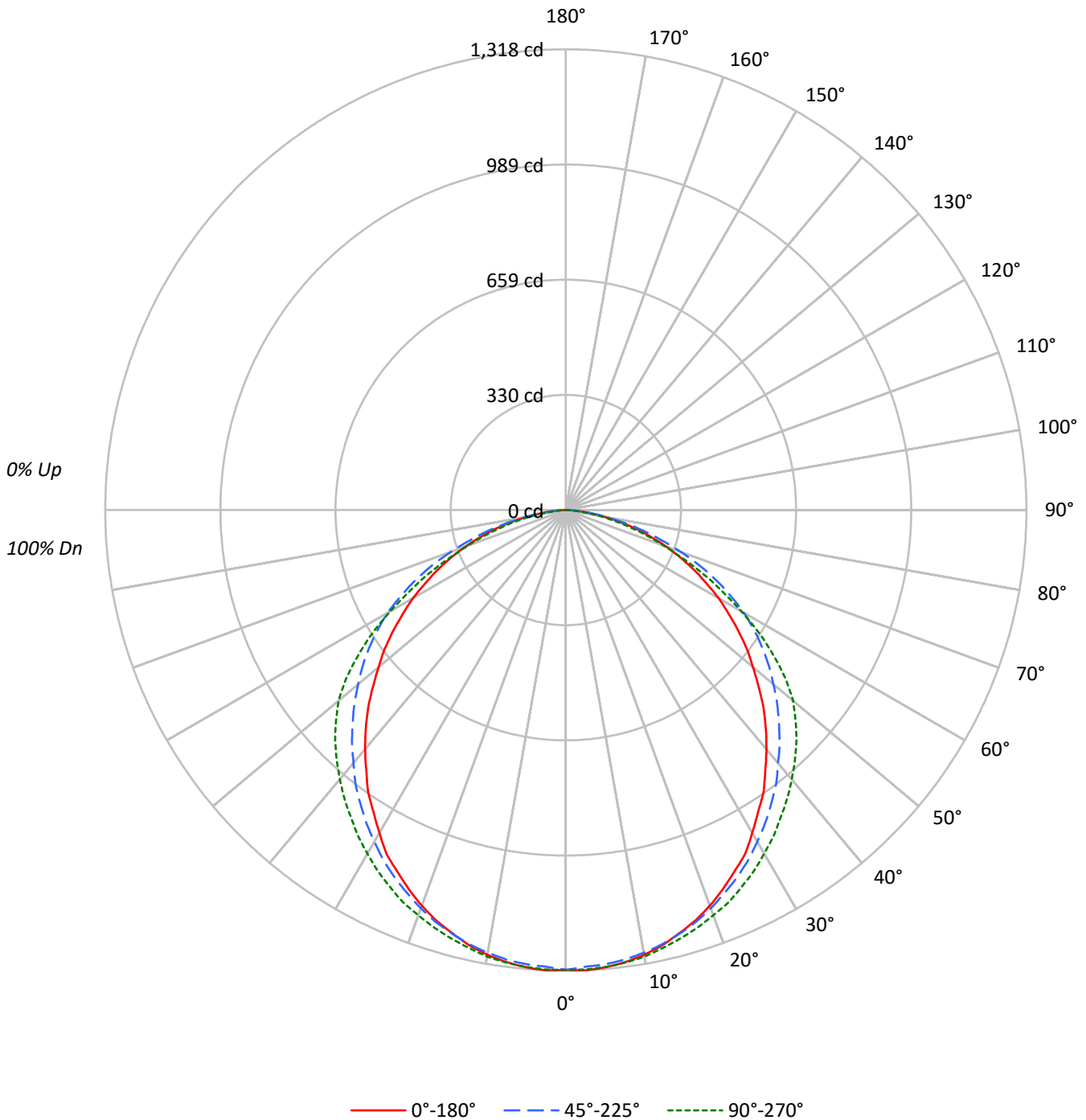
Lumens per Lamp: N/A  
Luminaire Lumens: 3648.3 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.6  
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



TEST NUMBER: P798371  
CATALOG NUMBER: 14CZSB-SCT3-S-UNV-MID-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P798371

CATALOG NUMBER: 14CZSB-SCT3-S-UNV-MID-3000K

**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	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°	1770	1770	1770
5°	1774	1762	1772
10°	1765	1757	1772
15°	1746	1749	1767
20°	1725	1736	1766
25°	1694	1721	1767
30°	1658	1702	1764
35°	1619	1684	1761
40°	1569	1660	1767
45°	1522	1640	1776
50°	1463	1623	1777
55°	1414	1610	1703
60°	1359	1587	1561
65°	1286	1511	1389
70°	1201	1373	1173
75°	1083	1197	985
80°	871	939	751
85°	619	537	391

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 50°  
 Luminance: 1777 cd/sqm



TEST NUMBER: P798371  
 CATALOG NUMBER: 14CZSB-SCT3-S-UNV-MID-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	3.4
10°-20°	355.6	9.7
20°-30°	536.5	14.7
30°-40°	643.3	17.6
40°-50°	667.5	18.3
50°-60°	602.6	16.5
60°-70°	438.9	12.0
70°-80°	230.2	6.3
80°-90°	49.2	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°	1016.6	27.9
0°-40°	1659.8	45.5
0°-60°	2930.0	80.3
0°-90°	3648.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3648.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1313	1310	1304	1313	1312	125
15°	1254	1254	1255	1269	1269	354
25°	1141	1147	1159	1185	1190	526
35°	986	995	1025	1064	1072	615
45°	800	818	862	916	934	616
55°	603	624	686	728	726	539
65°	404	428	475	453	436	400
75°	208	238	230	199	189	219
85°	40	48	35	27	25	51
90°	0	0	0	0	0	



TEST NUMBER: P798371

CATALOG NUMBER: 14CZSB-SCT3-S-UNV-MID-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1315.5	1315.5	1315.5	1315.5	1315.5
2.5°	1318.3	1314.7	1307.8	1316.4	1315.5
5°	1313.1	1310.4	1304.4	1313.1	1312.1
7.5°	1304.4	1302.6	1297.3	1306.9	1305.9
10°	1292.1	1289.4	1286.1	1296.4	1297.3
12.5°	1275.6	1274.6	1272.8	1284.2	1283.3
15°	1253.7	1253.7	1255.3	1269.4	1268.6
17.5°	1231.9	1231.9	1236.2	1252.0	1252.7
20°	1204.9	1206.6	1212.6	1231.9	1233.6
22.5°	1174.2	1176.1	1186.6	1210.9	1215.4
25°	1141.1	1147.2	1159.4	1184.7	1190.1
27.5°	1110.5	1111.5	1129.8	1157.7	1164.7
30°	1066.9	1079.2	1095.7	1128.1	1135.1
32.5°	1024.1	1036.5	1061.8	1096.6	1106.2
35°	985.9	995.3	1025.1	1063.5	1072.3
37.5°	938.0	953.5	988.4	1028.6	1040.8
40°	893.4	907.2	944.9	990.2	1005.8
42.5°	847.1	862.8	905.7	954.4	970.2
45°	800.0	817.5	862.1	916.0	933.5
47.5°	748.5	770.4	820.8	875.9	891.7
50°	698.9	721.4	775.5	833.2	849.0
52.5°	653.3	673.6	732.8	786.0	792.9
55°	602.9	623.9	686.5	727.7	725.9
57.5°	552.4	575.8	638.7	663.8	656.9
60°	505.1	526.9	589.6	595.1	580.1
62.5°	452.9	478.2	531.4	523.5	505.1
65°	404.0	428.5	474.6	452.9	436.2
67.5°	354.1	380.4	413.5	381.3	362.0
70°	305.2	336.7	349.1	314.2	298.3
72.5°	255.6	288.7	287.8	254.6	241.7
75°	208.4	238.1	230.3	199.0	189.4
77.5°	158.7	188.5	173.5	150.1	141.3
80°	112.4	140.5	121.2	102.9	96.9
82.5°	76.6	93.3	75.9	60.1	57.5
85°	40.1	48.0	34.8	27.0	25.3
87.5°	14.8	13.9	12.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)