

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: P798373

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

Issue Date: 3/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798373  
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-4000K  
Description: Cruze SB Selectable Troffer  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

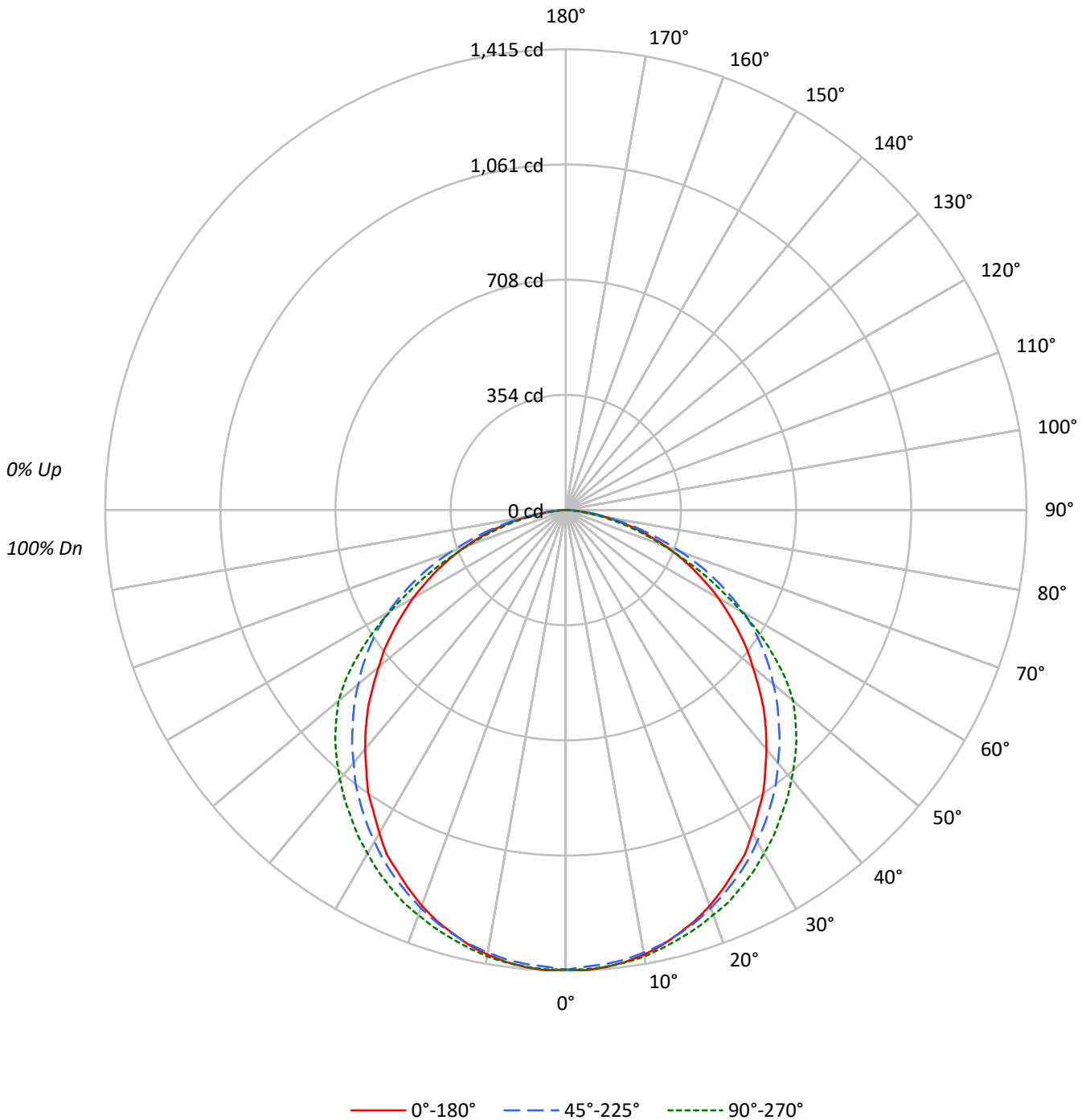
Lumens per Lamp: N/A  
Luminaire Lumens: 3915.5 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	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°	1900	1900	1900
5°	1903	1891	1902
10°	1895	1886	1902
15°	1874	1877	1897
20°	1852	1863	1896
25°	1818	1847	1896
30°	1779	1827	1893
35°	1738	1807	1890
40°	1684	1781	1896
45°	1634	1760	1906
50°	1570	1742	1907
55°	1518	1728	1827
60°	1459	1703	1675
65°	1380	1621	1490
70°	1289	1474	1259
75°	1162	1285	1057
80°	935	1008	806
85°	664	577	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 50°  
 Luminance: 1907 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	3.4
10°-20°	381.6	9.7
20°-30°	575.8	14.7
30°-40°	690.4	17.6
40°-50°	716.4	18.3
50°-60°	646.8	16.5
60°-70°	471.1	12.0
70°-80°	247.1	6.3
80°-90°	52.8	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°	1091.0	27.9
0°-40°	1781.4	45.5
0°-60°	3144.6	80.3
0°-90°	3915.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1409	1406	1400	1409	1408	134
15°	1346	1346	1347	1362	1362	380
25°	1225	1231	1244	1272	1277	565
35°	1058	1068	1100	1141	1151	660
45°	859	877	925	983	1002	661
55°	647	670	737	781	779	578
65°	434	460	509	486	468	429
75°	224	256	247	214	203	235
85°	43	52	37	29	27	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1414.8	1411.0	1403.6	1412.8	1411.8
5°	1409.2	1406.4	1400.0	1409.2	1408.2
7.5°	1400.0	1397.9	1392.3	1402.6	1401.6
10°	1386.7	1383.9	1380.2	1391.3	1392.3
12.5°	1369.0	1368.0	1366.0	1378.2	1377.2
15°	1345.5	1345.5	1347.3	1362.4	1361.5
17.5°	1322.1	1322.1	1326.8	1343.7	1344.5
20°	1293.2	1295.0	1301.4	1322.1	1323.9
22.5°	1260.2	1262.2	1273.5	1299.6	1304.4
25°	1224.6	1231.2	1244.3	1271.5	1277.3
27.5°	1191.8	1192.8	1212.5	1242.5	1249.9
30°	1145.0	1158.3	1175.9	1210.7	1218.2
32.5°	1099.1	1112.4	1139.5	1177.0	1187.2
35°	1058.1	1068.2	1100.1	1141.4	1150.8
37.5°	1006.6	1023.3	1060.7	1104.0	1117.0
40°	958.8	973.7	1014.1	1062.7	1079.4
42.5°	909.1	926.0	972.0	1024.3	1041.2
45°	858.6	877.3	925.2	983.1	1001.8
47.5°	803.3	826.9	881.0	940.1	957.0
50°	750.0	774.2	832.3	894.2	911.1
52.5°	701.2	722.9	786.4	843.6	851.0
55°	647.1	669.6	736.8	781.0	779.0
57.5°	592.8	617.9	685.5	712.4	705.0
60°	542.1	565.5	632.8	638.6	622.6
62.5°	486.0	513.2	570.3	561.8	542.1
65°	433.5	459.9	509.3	486.0	468.1
67.5°	380.1	408.2	443.8	409.2	388.5
70°	327.6	361.3	374.6	337.2	320.1
72.5°	274.3	309.9	308.9	273.3	259.4
75°	223.6	255.6	247.1	213.6	203.3
77.5°	170.3	202.3	186.2	161.1	151.6
80°	120.7	150.8	130.1	110.4	104.0
82.5°	82.2	100.1	81.4	64.5	61.7
85°	43.0	51.5	37.4	29.0	27.1
87.5°	15.9	14.9	13.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)