

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: P798094

Luminaire Tested: 24CZSB-SCT3-HRP-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798094
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-LOW-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

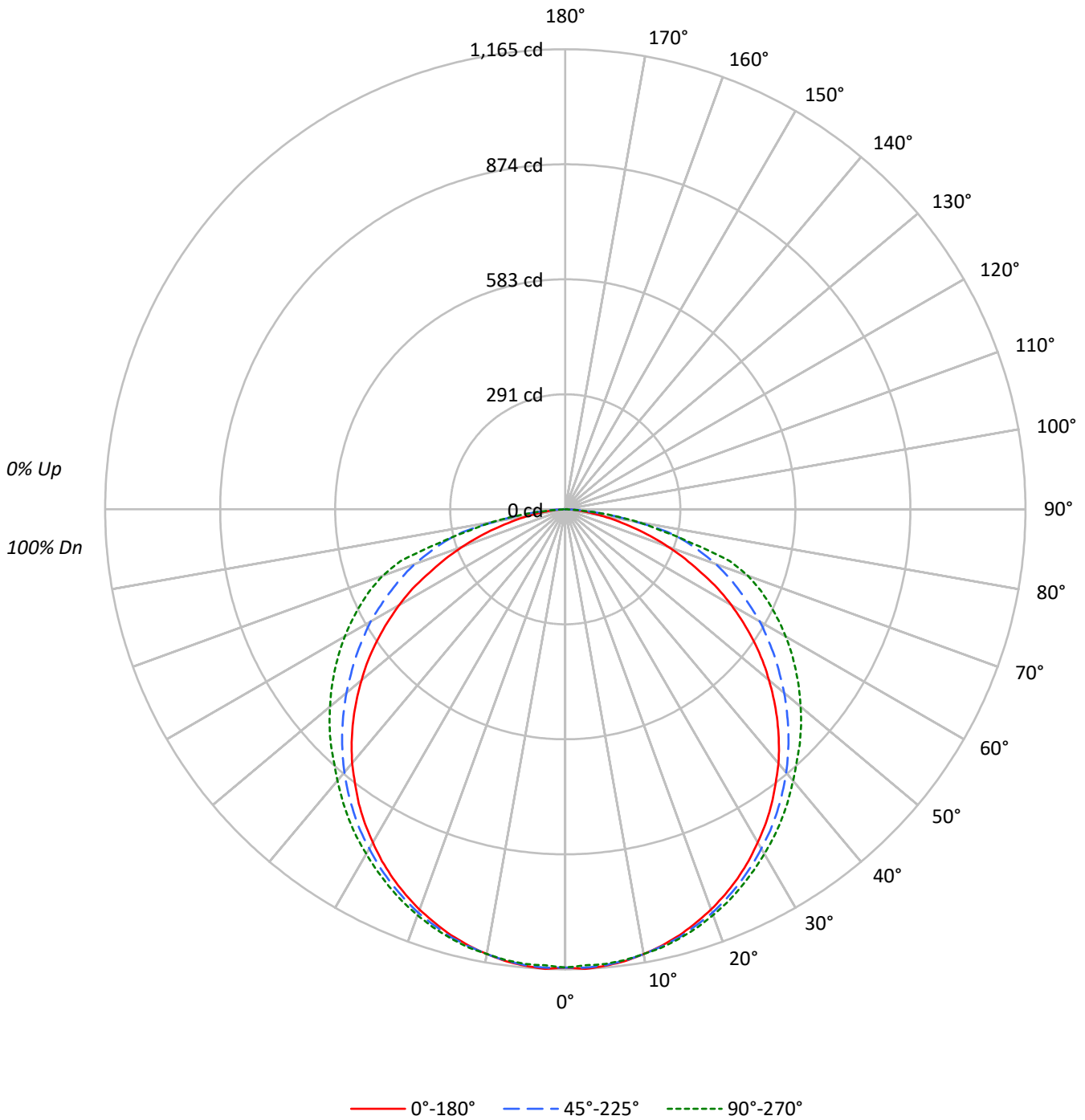
Lumens per Lamp: N/A
Luminaire Lumens: 3532.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	1561	1561	1561
5°	1567	1565	1561
10°	1563	1563	1563
15°	1555	1562	1566
20°	1545	1558	1566
25°	1532	1550	1566
30°	1514	1542	1566
35°	1496	1536	1571
40°	1475	1528	1576
45°	1445	1520	1598
50°	1409	1514	1628
55°	1366	1515	1672
60°	1307	1531	1735
65°	1209	1546	1821
70°	1089	1595	1934
75°	920	1644	1730
80°	715	1407	1454
85°	514	959	840

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 1957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.1
10°-20°	315.9	8.9
20°-30°	480.3	13.6
30°-40°	583.6	16.5
40°-50°	615.9	17.4
50°-60°	578.7	16.4
60°-70°	476.5	13.5
70°-80°	300.2	8.5
80°-90°	70.9	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°	906.2	25.7
0°-40°	1489.8	42.2
0°-60°	2684.5	76.0
0°-90°	3532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1160	1154	1159	1158	1156	110
15°	1117	1112	1121	1124	1124	315
25°	1032	1030	1044	1050	1055	475
35°	911	915	935	947	956	569
45°	760	772	799	822	840	586
55°	582	604	646	692	713	520
65°	380	416	486	548	572	377
75°	177	232	316	345	333	189
85°	33	56	62	58	54	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.4	1160.4	1160.4	1160.4	1160.4
2.5°	1165.0	1157.5	1162.0	1160.4	1156.0
5°	1160.4	1154.4	1158.9	1157.5	1156.0
7.5°	1154.4	1148.4	1152.9	1151.4	1151.4
10°	1143.8	1139.2	1143.8	1143.8	1143.8
12.5°	1131.7	1127.2	1133.2	1134.8	1136.3
15°	1116.6	1112.0	1121.1	1124.2	1124.2
17.5°	1098.5	1095.4	1104.5	1107.6	1110.5
20°	1078.8	1077.3	1087.9	1090.8	1093.9
22.5°	1056.1	1056.1	1066.7	1069.6	1075.8
25°	1031.8	1030.3	1044.0	1050.0	1054.6
27.5°	1004.6	1004.6	1019.8	1027.4	1031.8
30°	974.3	977.4	992.5	1001.6	1007.7
32.5°	944.1	947.1	965.3	975.9	983.4
35°	910.9	915.3	935.0	947.1	956.2
37.5°	874.5	882.1	903.2	916.9	927.5
40°	839.7	845.7	870.0	885.1	897.2
42.5°	800.4	811.0	835.1	853.3	866.9
45°	759.5	771.7	798.9	821.6	839.7
47.5°	717.1	732.3	761.1	791.3	809.5
50°	673.3	689.9	723.3	759.5	777.7
52.5°	629.4	647.5	683.9	726.2	745.9
55°	582.5	603.7	646.0	691.5	712.7
57.5°	534.1	558.2	606.6	658.1	679.3
60°	485.7	511.4	568.8	620.3	644.6
62.5°	435.8	464.5	526.6	585.6	608.2
65°	379.7	416.1	485.7	547.6	571.9
67.5°	328.4	366.2	446.4	508.3	534.1
70°	276.9	320.7	405.5	467.6	491.7
72.5°	225.4	276.9	360.0	423.6	437.3
75°	177.0	231.6	316.2	345.0	332.8
77.5°	130.1	190.7	266.3	251.2	248.2
80°	92.3	151.3	181.6	183.0	187.6
82.5°	59.0	112.0	118.0	119.5	121.1
85°	33.3	55.9	62.1	57.5	54.4
87.5°	15.1	18.1	15.1	10.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)