

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: P798381

Luminaire Tested: 22CZSB-SCT3-S-UNV-MID-3500K

Issue Date: 3/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSB-SCT3-S-UNV-MID-3500K  
Description: Cruze SB Selectable Troffer  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

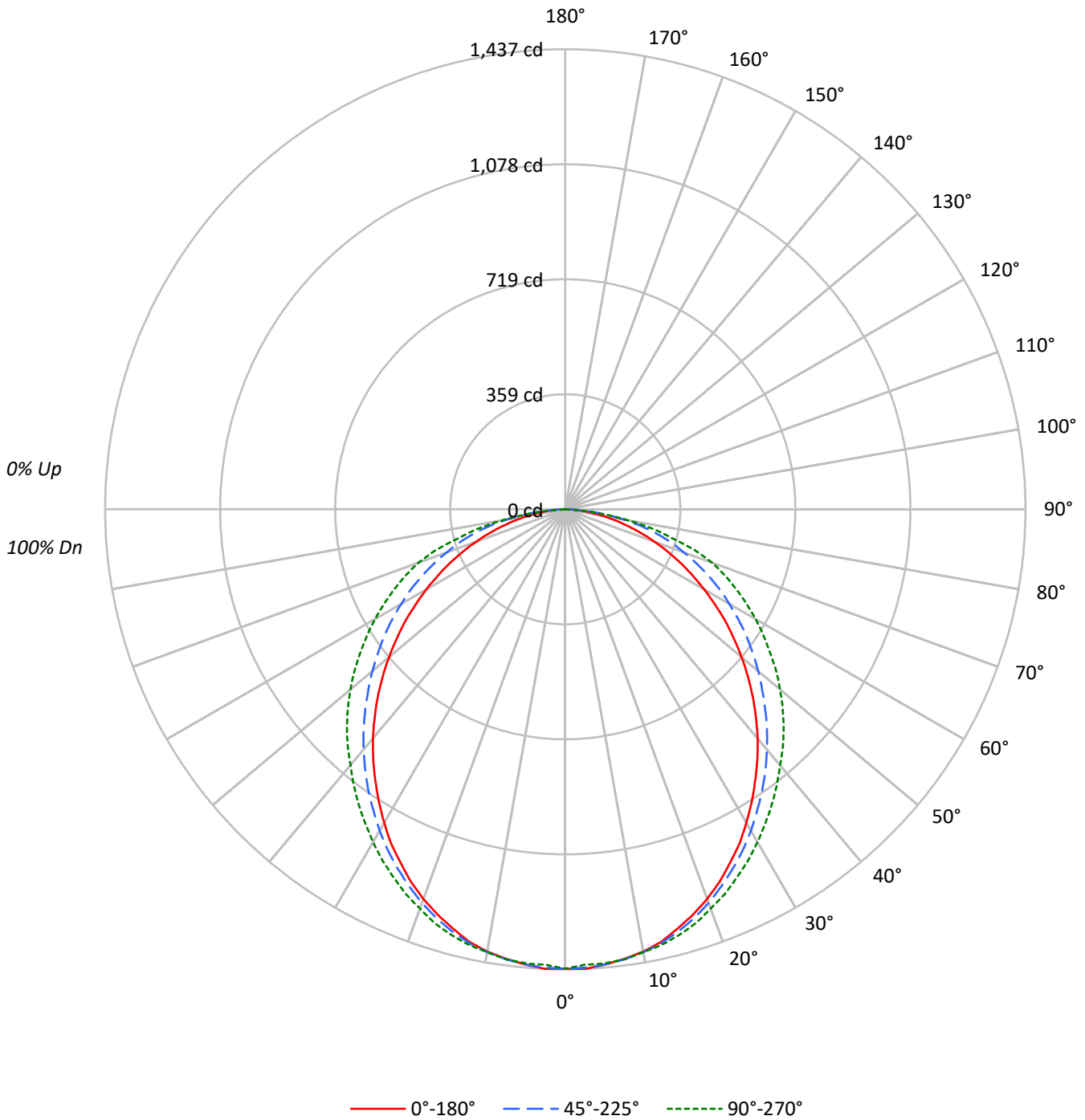
Lumens per Lamp: N/A  
Luminaire Lumens: 3936.1 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.9  
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	85	85	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	60	60	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

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

	0°	45°	90°
0°	3862	3862	3862
5°	3856	3856	3846
10°	3833	3838	3838
15°	3777	3802	3834
20°	3709	3747	3801
25°	3615	3677	3766
30°	3513	3602	3730
35°	3397	3522	3695
40°	3281	3441	3666
45°	3151	3360	3670
50°	3008	3293	3665
55°	2865	3237	3663
60°	2697	3186	3693
65°	2529	3142	3744
70°	2334	3108	3838
75°	2104	3085	3557
80°	1846	2868	3104
85°	1516	2161	1924

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 70°  
 Luminance: 3838 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	3.4
10°-20°	384.9	9.8
20°-30°	571.7	14.5
30°-40°	673.0	17.1
40°-50°	686.1	17.4
50°-60°	618.8	15.7
60°-70°	487.4	12.4
70°-80°	300.6	7.6
80°-90°	78.0	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°	1092.2	27.7
0°-40°	1765.2	44.8
0°-60°	3070.0	78.0
0°-90°	3936.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1428	1429	1428	1425	1424	135
15°	1356	1361	1365	1372	1376	382
25°	1218	1225	1238	1259	1268	561
35°	1034	1046	1072	1106	1125	647
45°	828	841	883	936	964	638
55°	611	631	690	752	781	545
65°	397	425	494	556	588	393
75°	202	236	297	331	342	216
85°	49	62	70	66	62	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1435.0	1435.0	1435.0	1435.0	1435.0
2.5°	1436.8	1436.8	1433.0	1429.3	1423.6
5°	1427.5	1429.3	1427.5	1425.4	1423.6
7.5°	1416.1	1417.9	1417.9	1417.9	1417.9
10°	1402.8	1404.7	1404.7	1404.7	1404.7
12.5°	1383.9	1385.9	1387.6	1389.6	1393.3
15°	1355.6	1361.1	1364.8	1372.5	1376.2
17.5°	1327.3	1332.8	1338.7	1347.9	1355.6
20°	1295.1	1298.8	1308.4	1319.6	1327.3
22.5°	1259.1	1264.8	1274.2	1289.4	1300.8
25°	1217.6	1225.1	1238.3	1259.1	1268.5
27.5°	1177.9	1183.4	1200.3	1223.1	1236.5
30°	1130.6	1138.0	1159.1	1187.2	1200.3
32.5°	1083.4	1092.7	1115.5	1147.7	1162.8
35°	1034.1	1045.5	1072.0	1106.0	1124.9
37.5°	985.0	996.4	1026.6	1064.4	1085.2
40°	934.1	945.3	979.5	1020.9	1043.5
42.5°	881.0	894.2	931.9	979.5	1005.8
45°	827.9	841.3	883.0	935.8	964.3
47.5°	773.3	788.4	833.8	892.4	920.7
50°	718.5	735.4	786.5	847.0	875.5
52.5°	663.5	682.5	737.3	799.8	830.1
55°	610.6	631.4	690.0	752.3	780.8
57.5°	554.0	578.6	640.9	701.4	733.6
60°	501.1	527.5	591.9	652.3	686.2
62.5°	448.1	476.4	544.4	605.1	637.1
65°	397.2	425.3	493.5	555.8	588.0
67.5°	345.9	378.1	444.3	506.6	538.9
70°	296.7	330.7	395.0	455.7	487.8
72.5°	249.6	283.6	347.8	404.6	423.5
75°	202.4	236.4	296.7	330.7	342.1
77.5°	158.8	191.0	243.9	264.7	279.8
80°	119.1	147.4	185.1	198.5	200.3
82.5°	81.2	105.9	128.7	130.5	128.7
85°	49.1	62.3	70.0	66.0	62.3
87.5°	22.8	24.6	22.8	15.1	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)