

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: P798058

Luminaire Tested: 22CZSB-SCT3-HRP-UNV-LOW-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345110)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSB-SCT3-HRP-UNV-LOW-3500K  
Description: Cruze SB Selectable Troffer  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

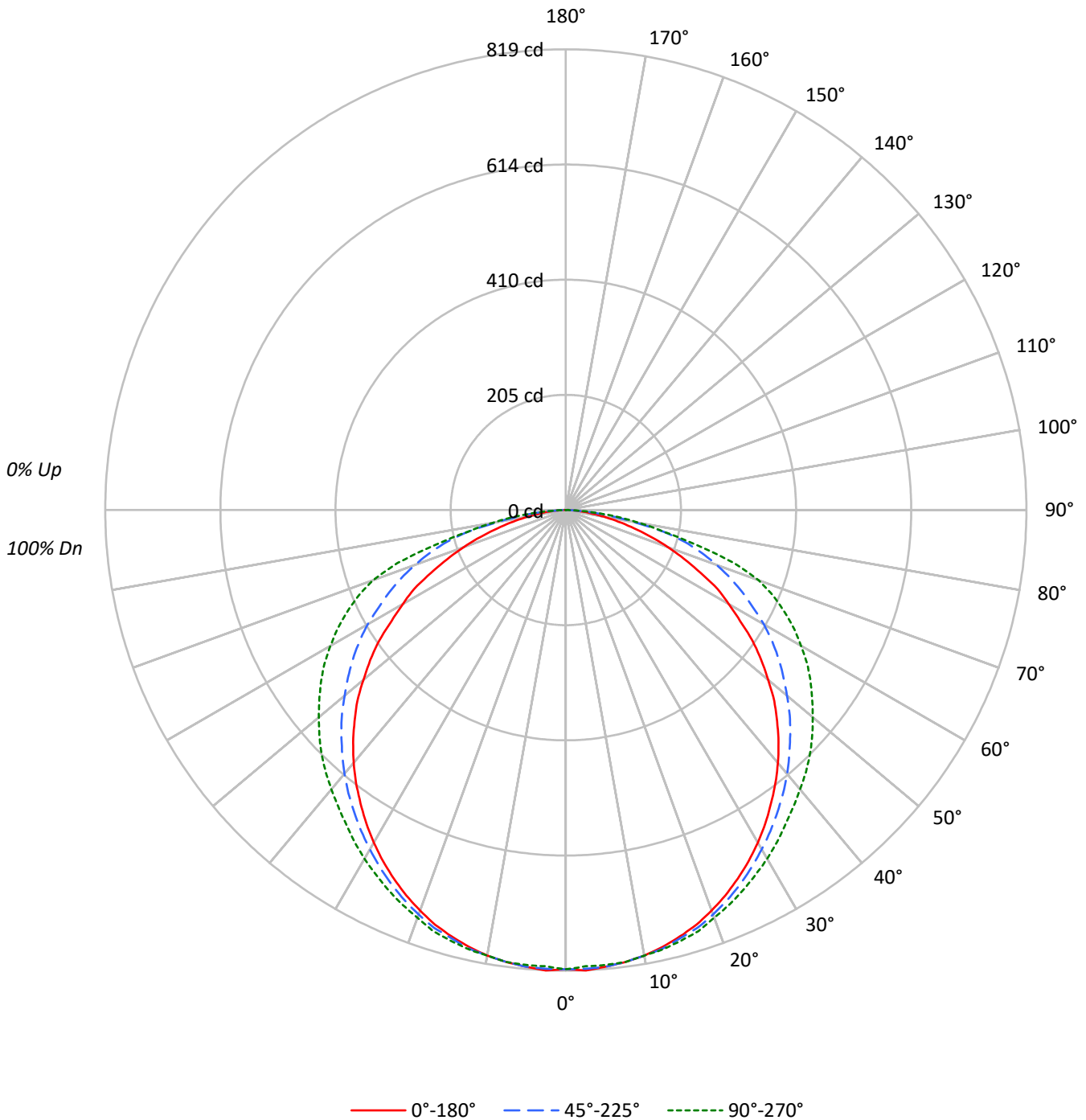
Lumens per Lamp: N/A  
Luminaire Lumens: 2507.3 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.5  
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	73	80	76	72	77	74	70	70	70	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	38	38	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	30	30	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

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

	0°	45°	90°
0°	2197	2197	2197
5°	2201	2201	2193
10°	2198	2198	2198
15°	2186	2195	2208
20°	2170	2192	2209
25°	2148	2179	2214
30°	2122	2164	2224
35°	2091	2155	2238
40°	2061	2151	2277
45°	2022	2148	2336
50°	1967	2148	2400
55°	1901	2168	2493
60°	1801	2189	2601
65°	1682	2207	2733
70°	1523	2243	2869
75°	1311	2279	2512
80°	1071	1906	2070
85°	883	1389	1531

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 70°  
 Luminance: 2869 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	3.1
10°-20°	222.6	8.9
20°-30°	338.4	13.5
30°-40°	411.8	16.4
40°-50°	438.6	17.5
50°-60°	414.9	16.5
60°-70°	341.9	13.6
70°-80°	210.3	8.4
80°-90°	51.3	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°	638.4	25.5
0°-40°	1050.1	41.9
0°-60°	1903.6	75.9
0°-90°	2507.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2507.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	815	815	815	813	812	77
15°	785	786	788	791	792	221
25°	723	726	734	741	746	333
35°	636	642	656	672	681	398
45°	531	540	564	596	614	410
55°	405	420	462	507	531	361
65°	264	290	347	402	429	262
75°	126	160	219	239	242	135
85°	29	38	45	48	50	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.4	816.4	816.4	816.4	816.4
2.5°	819.4	817.9	816.4	813.4	811.9
5°	814.9	814.9	814.9	813.4	811.9
7.5°	810.4	810.4	810.4	810.4	810.4
10°	804.3	804.3	804.3	804.3	804.3
12.5°	795.4	796.9	798.4	798.4	799.9
15°	784.8	786.3	787.9	790.9	792.4
17.5°	772.9	774.4	778.9	781.9	784.8
20°	757.9	759.4	765.3	768.4	771.4
22.5°	741.4	744.3	750.4	756.4	759.4
25°	723.3	726.3	733.9	741.4	745.8
27.5°	703.8	706.8	715.9	726.3	730.9
30°	682.8	685.8	696.4	708.3	715.9
32.5°	660.3	664.8	676.9	691.9	699.4
35°	636.4	642.3	655.9	672.4	681.3
37.5°	612.3	618.3	634.9	654.4	664.8
40°	586.8	594.4	612.3	634.9	648.3
42.5°	559.8	568.8	588.3	615.4	631.8
45°	531.3	540.3	564.3	595.7	613.9
47.5°	502.8	513.2	540.3	574.7	594.4
50°	469.8	481.7	513.2	553.7	573.3
52.5°	438.2	453.2	487.8	531.3	552.3
55°	405.3	420.2	462.2	507.3	531.3
57.5°	367.6	385.8	435.2	483.3	508.8
60°	334.7	352.7	406.8	457.7	483.3
62.5°	304.6	321.2	375.2	430.7	457.7
65°	264.1	289.6	346.6	402.2	429.2
67.5°	228.1	256.7	316.7	369.1	399.2
70°	193.6	223.6	285.1	336.2	364.7
72.5°	159.0	192.1	253.6	298.7	313.7
75°	126.1	160.5	219.2	238.7	241.6
77.5°	96.0	130.6	177.2	175.6	178.5
80°	69.1	99.0	123.0	127.6	133.6
82.5°	46.6	69.1	79.5	87.1	93.1
85°	28.6	37.5	45.0	48.1	49.6
87.5°	13.5	15.0	15.0	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)