

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: P798106

Luminaire Tested: 24CZSB-SCT3-S-UNV-MID-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSB-SCT3-S-UNV-MID-3500K  
Description: Cruze SB Selectable Troffer  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

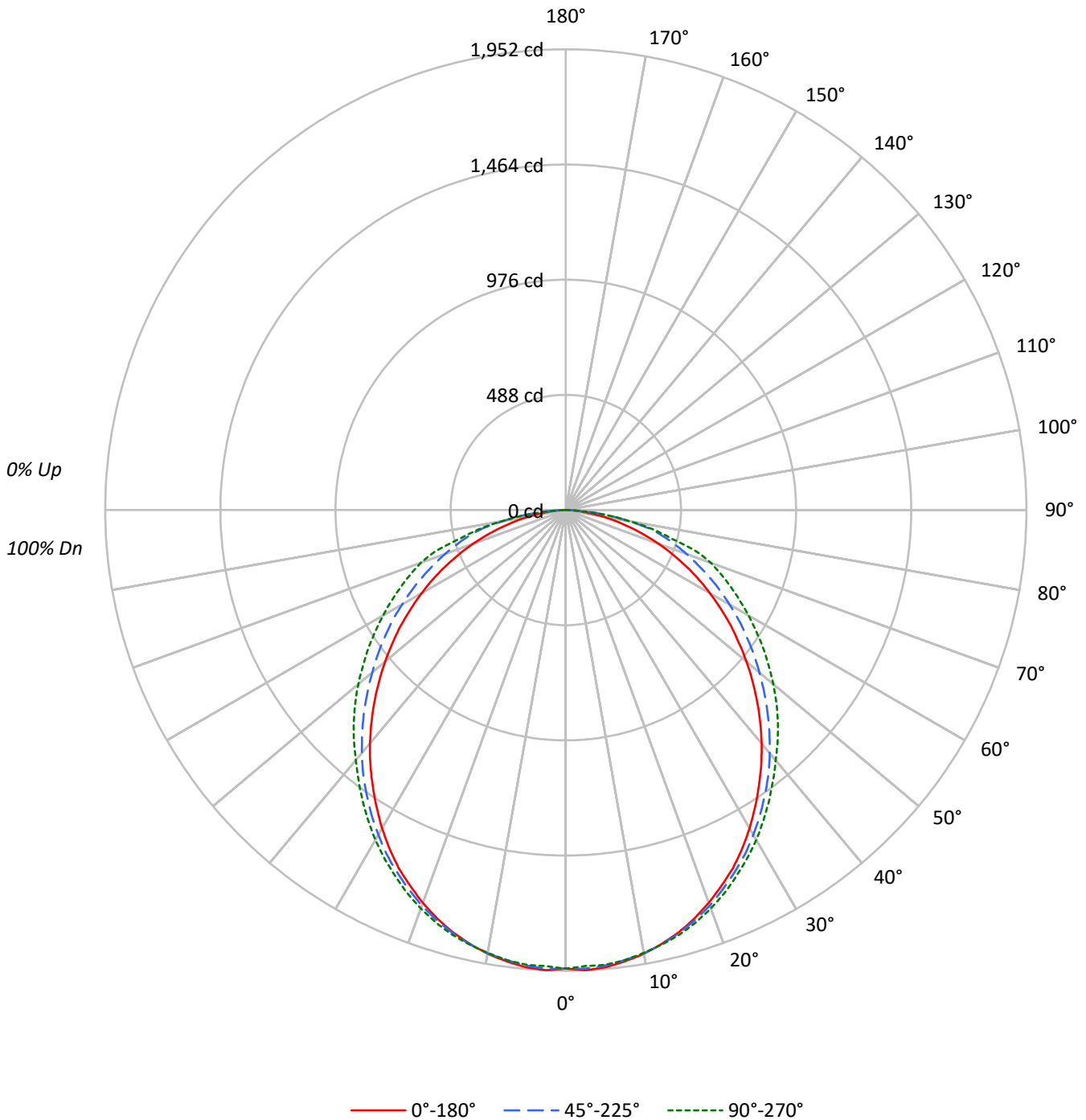
Lumens per Lamp: N/A  
Luminaire Lumens: 5366.6 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.6  
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	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	35	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	33	29	39	33	29	29	29	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	26	26	26	24

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

	0°	45°	90°
0°	2614	2614	2614
5°	2626	2617	2612
10°	2608	2606	2603
15°	2579	2584	2594
20°	2536	2554	2572
25°	2487	2513	2540
30°	2419	2469	2508
35°	2343	2417	2467
40°	2268	2361	2431
45°	2181	2300	2419
50°	2093	2243	2403
55°	2002	2195	2396
60°	1898	2157	2407
65°	1785	2131	2456
70°	1644	2143	2571
75°	1457	2218	2394
80°	1218	2104	2159
85°	909	1683	1544

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 72.5°  
 Luminance: 2588 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	3.4
10°-20°	522.4	9.7
20°-30°	778.5	14.5
30°-40°	916.4	17.1
40°-50°	931.3	17.4
50°-60°	837.3	15.6
60°-70°	661.5	12.3
70°-80°	419.7	7.8
80°-90°	115.8	2.2
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°	1484.6	27.7
0°-40°	2401.0	44.7
0°-60°	4169.6	77.7
0°-90°	5366.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5366.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1945	1928	1937	1934	1934	184
15°	1852	1843	1855	1860	1862	522
25°	1675	1673	1693	1704	1711	770
35°	1427	1436	1471	1488	1502	893
45°	1146	1162	1209	1245	1271	885
55°	854	875	936	996	1022	762
65°	561	589	670	743	771	555
75°	280	328	427	464	461	298
85°	59	102	109	100	100	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1942.8	1942.8	1942.8	1942.8	1942.8
2.5°	1951.7	1937.3	1944.6	1940.9	1933.8
5°	1944.6	1928.5	1937.3	1933.8	1933.8
7.5°	1928.5	1915.9	1923.0	1921.4	1923.0
10°	1908.8	1896.3	1907.1	1907.1	1905.3
12.5°	1882.1	1871.3	1883.9	1883.9	1885.5
15°	1851.7	1842.9	1855.4	1860.5	1862.5
17.5°	1814.2	1805.3	1821.4	1826.7	1832.2
20°	1771.3	1767.8	1783.7	1789.2	1796.3
22.5°	1723.2	1723.2	1739.1	1746.2	1757.0
25°	1674.9	1673.1	1692.8	1703.6	1710.8
27.5°	1617.7	1619.7	1644.6	1655.4	1664.3
30°	1557.2	1560.7	1589.2	1601.8	1614.2
32.5°	1492.8	1500.0	1532.1	1546.4	1558.8
35°	1426.6	1435.8	1471.2	1487.5	1501.8
37.5°	1360.6	1373.3	1410.7	1426.6	1442.9
40°	1291.0	1301.8	1344.5	1364.1	1383.9
42.5°	1219.7	1233.9	1276.7	1305.2	1328.6
45°	1146.4	1162.4	1208.9	1244.7	1271.4
47.5°	1073.2	1094.6	1139.2	1187.5	1210.7
50°	999.9	1021.5	1071.4	1125.0	1148.0
52.5°	924.9	946.5	1003.6	1058.8	1083.8
55°	853.5	875.0	935.7	996.4	1021.5
57.5°	778.5	801.7	869.7	932.1	956.9
60°	705.4	728.4	801.7	867.7	894.6
62.5°	634.1	658.9	735.7	805.4	832.1
65°	560.7	589.3	669.5	742.8	771.4
67.5°	489.3	521.4	605.4	682.1	712.5
70°	418.0	455.4	544.7	623.3	653.6
72.5°	348.3	389.2	484.0	562.4	578.5
75°	280.3	328.5	426.7	464.2	460.6
77.5°	216.1	269.5	362.6	369.7	380.3
80°	157.2	216.1	271.5	285.8	278.6
82.5°	103.5	162.5	194.7	187.4	185.8
85°	58.9	101.8	109.0	100.0	100.0
87.5°	25.0	41.0	35.8	26.7	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)