

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: P798085

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSB-SCT3-UNV-LOW-3500K  
Description: Cruze SB Selectable Troffer  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

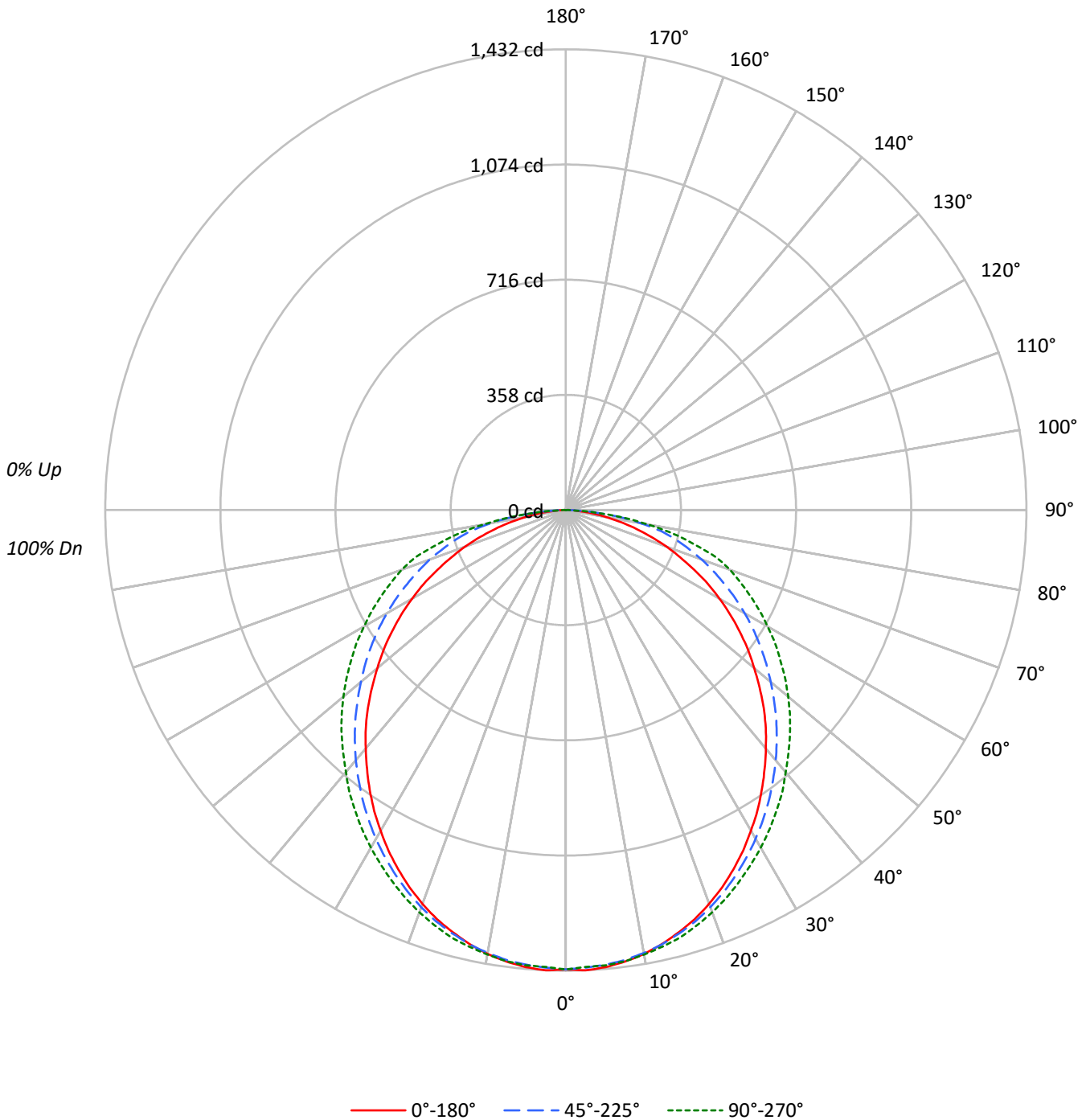
Lumens per Lamp: N/A  
Luminaire Lumens: 4161.0 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	100	100	100	100
1	108	103	99	94	105	101	97	93	97	93	90	93	90	87	89	87	85	82	82	82	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68	68	68	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57	57	57	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48	48	48	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42	42	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36	36	36	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32	32	32	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23	23	23	23

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

	0°	45°	90°
0°	1921	1921	1921
5°	1926	1916	1919
10°	1914	1910	1917
15°	1892	1898	1916
20°	1865	1882	1905
25°	1829	1859	1893
30°	1788	1834	1883
35°	1745	1808	1875
40°	1700	1783	1868
45°	1656	1761	1876
50°	1601	1740	1888
55°	1550	1732	1910
60°	1485	1729	1949
65°	1403	1732	2016
70°	1313	1768	2138
75°	1182	1840	2157
80°	1000	1838	2018
85°	773	1491	1482

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 72.5°  
 Luminance: 2199 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.1	3.2
10°-20°	385.0	9.3
20°-30°	577.4	13.9
30°-40°	689.8	16.6
40°-50°	716.0	17.2
50°-60°	661.2	15.9
60°-70°	537.3	12.9
70°-80°	355.6	8.5
80°-90°	103.8	2.5
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°	1097.5	26.4
0°-40°	1787.2	43.0
0°-60°	3164.4	76.0
0°-90°	4161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1426	1422	1419	1422	1421	135
15°	1358	1357	1362	1375	1375	383
25°	1232	1237	1252	1271	1275	568
35°	1062	1076	1101	1131	1142	665
45°	870	887	926	971	986	671
55°	661	684	738	796	814	590
65°	441	476	544	611	633	437
75°	227	274	354	406	415	241
85°	50	87	97	96	96	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1427.9	1427.9	1427.9	1427.9	1427.9
2.5°	1432.2	1428.5	1423.6	1427.9	1421.2
5°	1426.1	1422.4	1418.7	1422.4	1420.6
7.5°	1415.7	1412.6	1410.8	1415.7	1414.5
10°	1401.0	1397.4	1398.0	1404.7	1402.9
12.5°	1382.1	1380.2	1382.7	1390.6	1390.0
15°	1358.2	1357.0	1362.5	1375.3	1375.3
17.5°	1333.2	1331.9	1340.5	1353.3	1354.0
20°	1302.6	1303.8	1314.2	1327.1	1330.7
22.5°	1269.6	1271.4	1284.3	1298.9	1304.4
25°	1232.3	1236.6	1251.9	1270.8	1275.1
27.5°	1193.8	1199.3	1217.0	1238.4	1243.9
30°	1151.0	1158.3	1180.4	1204.8	1212.1
32.5°	1108.8	1119.8	1141.2	1168.7	1177.9
35°	1062.4	1075.8	1100.9	1130.8	1141.8
37.5°	1015.3	1030.6	1058.1	1092.3	1105.2
40°	967.6	984.1	1015.3	1051.4	1063.6
42.5°	920.6	937.1	970.7	1011.0	1024.5
45°	870.4	886.9	925.5	970.7	986.0
47.5°	817.3	838.0	878.4	929.7	945.0
50°	764.7	787.3	831.3	885.1	902.2
52.5°	714.0	736.0	785.5	841.7	859.4
55°	660.8	684.0	738.4	796.5	814.2
57.5°	607.0	632.7	690.7	750.6	772.0
60°	552.0	580.7	642.4	704.2	724.3
62.5°	499.4	527.5	593.5	657.7	679.7
65°	440.7	475.6	544.0	611.3	633.3
67.5°	385.1	423.6	496.3	565.4	587.4
70°	333.8	374.7	449.3	517.7	543.4
72.5°	279.3	323.4	400.4	469.5	491.5
75°	227.4	274.5	353.9	406.5	415.0
77.5°	177.3	226.8	303.2	336.8	344.8
80°	129.0	181.5	237.2	262.2	260.4
82.5°	86.2	137.5	170.5	177.3	178.5
85°	50.1	86.8	96.6	96.0	96.0
87.5°	21.4	35.5	31.2	28.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)