

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: P798086

Luminaire Tested: 24CZSB-SCT3-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798086
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-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

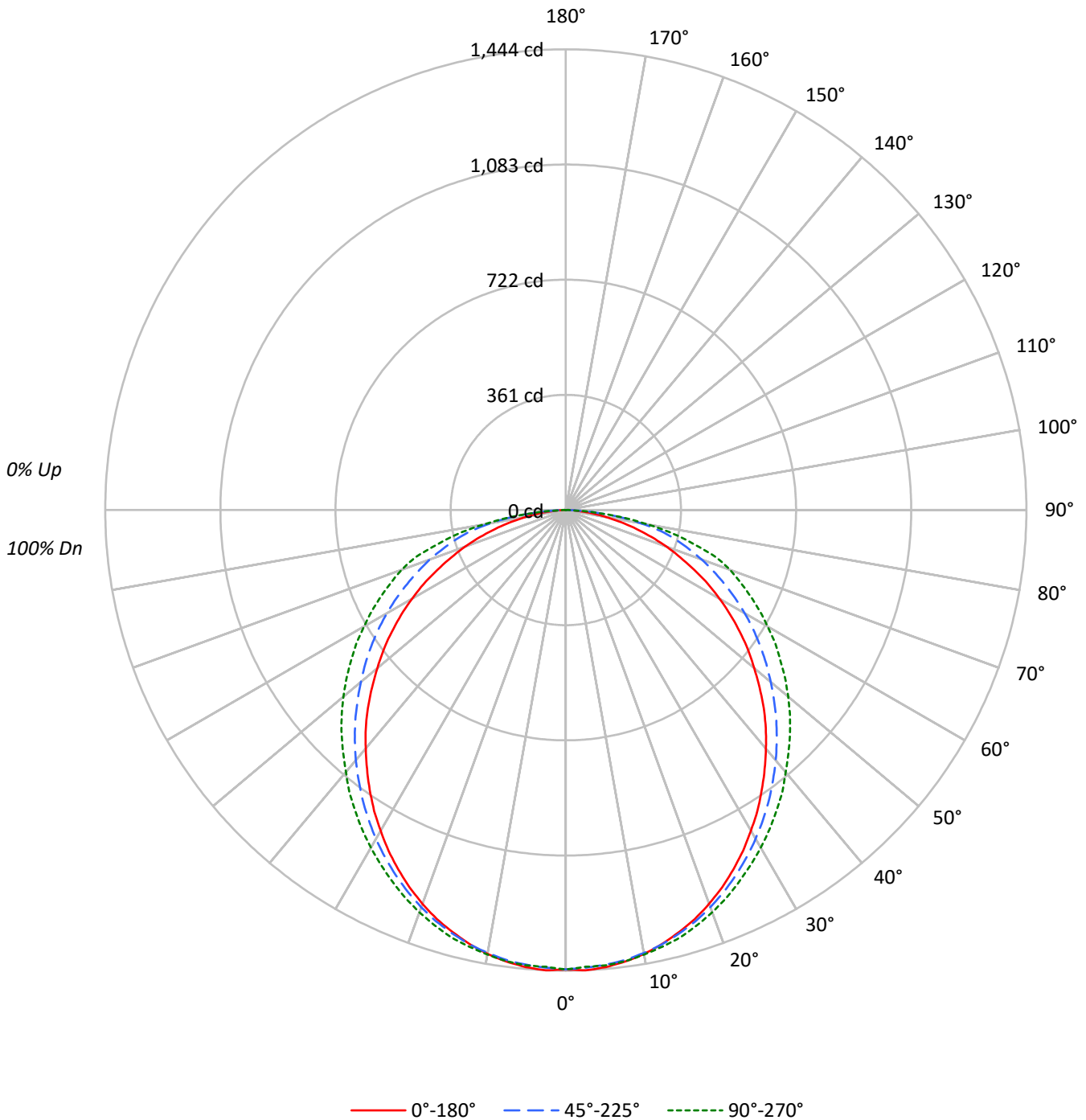
Lumens per Lamp: N/A
Luminaire Lumens: 4196.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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



TEST NUMBER: P798086
CATALOG NUMBER: 24CZSB-SCT3-UNV-LOW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798086

CATALOG NUMBER: 24CZSB-SCT3-UNV-LOW-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1937	1937	1937
5°	1942	1932	1935
10°	1930	1926	1933
15°	1908	1914	1932
20°	1881	1898	1921
25°	1845	1874	1909
30°	1803	1849	1899
35°	1760	1823	1891
40°	1714	1798	1884
45°	1670	1776	1892
50°	1614	1755	1904
55°	1563	1747	1926
60°	1498	1743	1965
65°	1415	1747	2033
70°	1324	1782	2156
75°	1192	1855	2176
80°	1008	1853	2035
85°	780	1504	1494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2218 cd/sqm



TEST NUMBER: P798086
 CATALOG NUMBER: 24CZSB-SCT3-UNV-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.2
10°-20°	388.3	9.3
20°-30°	582.2	13.9
30°-40°	695.6	16.6
40°-50°	722.0	17.2
50°-60°	666.7	15.9
60°-70°	541.8	12.9
70°-80°	358.5	8.5
80°-90°	104.6	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°	1106.7	26.4
0°-40°	1802.3	43.0
0°-60°	3191.1	76.0
0°-90°	4196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1438	1434	1431	1434	1432	136
15°	1370	1368	1374	1387	1387	386
25°	1243	1247	1262	1282	1286	572
35°	1071	1085	1110	1140	1151	670
45°	878	894	933	979	994	676
55°	666	690	745	803	821	595
65°	444	480	549	616	639	441
75°	229	277	357	410	418	243
85°	50	88	97	97	97	61
90°	0	0	0	0	0	



TEST NUMBER: P798086

CATALOG NUMBER: 24CZSB-SCT3-UNV-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.9	1439.9	1439.9	1439.9	1439.9
2.5°	1444.2	1440.5	1435.6	1439.9	1433.1
5°	1438.1	1434.4	1430.7	1434.4	1432.5
7.5°	1427.6	1424.5	1422.7	1427.6	1426.4
10°	1412.8	1409.1	1409.7	1416.5	1414.7
12.5°	1393.7	1391.8	1394.3	1402.3	1401.7
15°	1369.7	1368.4	1374.0	1386.9	1386.9
17.5°	1344.4	1343.1	1351.8	1364.7	1365.3
20°	1313.6	1314.8	1325.3	1338.2	1341.9
22.5°	1280.3	1282.1	1295.1	1309.9	1315.4
25°	1242.7	1247.0	1262.4	1281.5	1285.8
27.5°	1203.8	1209.4	1227.3	1248.8	1254.4
30°	1160.7	1168.1	1190.3	1214.9	1222.3
32.5°	1118.2	1129.3	1150.8	1178.6	1187.8
35°	1071.3	1084.9	1110.1	1140.4	1151.4
37.5°	1023.9	1039.3	1067.0	1101.5	1114.5
40°	975.8	992.4	1023.9	1060.2	1072.5
42.5°	928.3	945.0	978.9	1019.5	1033.1
45°	877.8	894.4	933.2	978.9	994.3
47.5°	824.1	845.1	885.8	937.6	953.0
50°	771.1	793.9	838.3	892.6	909.8
52.5°	720.0	742.2	792.1	848.8	866.7
55°	666.3	689.8	744.6	803.2	821.1
57.5°	612.1	638.0	696.5	756.9	778.5
60°	556.6	585.6	647.8	710.1	730.4
62.5°	503.6	532.0	598.5	663.3	685.4
65°	444.4	479.6	548.6	616.4	638.6
67.5°	388.3	427.2	500.5	570.2	592.4
70°	336.6	377.9	453.1	522.1	548.0
72.5°	281.7	326.1	403.7	473.4	495.6
75°	229.3	276.8	356.9	409.9	418.5
77.5°	178.8	228.7	305.7	339.6	347.7
80°	130.1	183.1	239.2	264.4	262.6
82.5°	86.9	138.7	172.0	178.8	180.0
85°	50.5	87.5	97.4	96.8	96.8
87.5°	21.6	35.8	31.4	28.4	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)