

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: P798084

Luminaire Tested: 24CZSB-SCT3-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798084
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-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

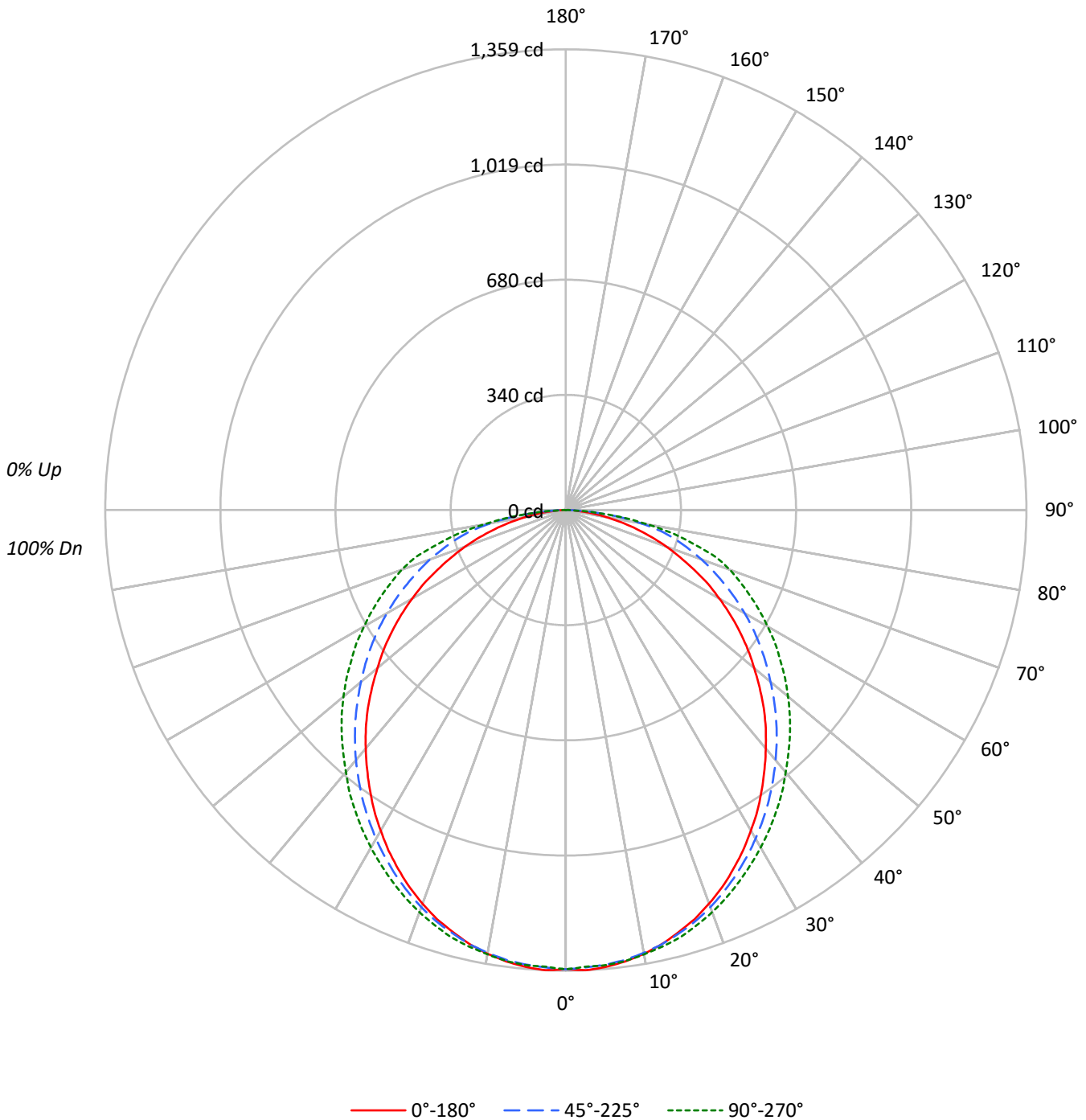
Lumens per Lamp: N/A
Luminaire Lumens: 3948.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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	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°	1823	1823	1823
5°	1828	1818	1821
10°	1816	1812	1818
15°	1795	1801	1818
20°	1770	1785	1808
25°	1736	1763	1796
30°	1697	1740	1787
35°	1656	1716	1780
40°	1613	1692	1773
45°	1572	1671	1780
50°	1519	1651	1792
55°	1471	1643	1812
60°	1409	1640	1850
65°	1331	1643	1913
70°	1246	1677	2028
75°	1122	1746	2047
80°	948	1743	1915
85°	735	1414	1406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.2
10°-20°	365.3	9.3
20°-30°	547.8	13.9
30°-40°	654.5	16.6
40°-50°	679.3	17.2
50°-60°	627.3	15.9
60°-70°	509.8	12.9
70°-80°	337.3	8.5
80°-90°	98.4	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°	1041.3	26.4
0°-40°	1695.8	43.0
0°-60°	3002.4	76.0
0°-90°	3948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1353	1350	1346	1350	1348	128
15°	1289	1288	1293	1305	1305	363
25°	1169	1173	1188	1206	1210	539
35°	1008	1021	1044	1073	1083	631
45°	826	842	878	921	936	636
55°	627	649	701	756	772	560
65°	418	451	516	580	601	415
75°	216	260	336	386	394	229
85°	48	82	92	91	91	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.8	1354.8	1354.8	1354.8	1354.8
2.5°	1358.9	1355.4	1350.8	1354.8	1348.4
5°	1353.1	1349.6	1346.1	1349.6	1347.9
7.5°	1343.2	1340.3	1338.6	1343.2	1342.1
10°	1329.3	1325.8	1326.4	1332.8	1331.0
12.5°	1311.3	1309.6	1311.9	1319.4	1318.9
15°	1288.7	1287.5	1292.8	1304.9	1304.9
17.5°	1264.9	1263.8	1271.9	1284.1	1284.6
20°	1235.9	1237.1	1246.9	1259.1	1262.6
22.5°	1204.6	1206.3	1218.5	1232.4	1237.7
25°	1169.2	1173.3	1187.8	1205.8	1209.8
27.5°	1132.7	1137.9	1154.7	1175.0	1180.2
30°	1092.1	1099.1	1119.9	1143.1	1150.1
32.5°	1052.1	1062.5	1082.8	1108.9	1117.6
35°	1008.0	1020.8	1044.5	1073.0	1083.4
37.5°	963.3	977.8	1003.9	1036.4	1048.6
40°	918.1	933.8	963.3	997.6	1009.2
42.5°	873.4	889.1	921.0	959.3	972.0
45°	825.9	841.5	878.1	921.0	935.5
47.5°	775.4	795.1	833.4	882.1	896.6
50°	725.5	747.0	788.8	839.8	856.0
52.5°	677.4	698.3	745.3	798.6	815.4
55°	627.0	649.0	700.6	755.7	772.5
57.5°	575.9	600.3	655.4	712.2	732.5
60°	523.7	551.0	609.6	668.1	687.3
62.5°	473.8	500.5	563.2	624.1	644.9
65°	418.2	451.2	516.2	580.0	600.9
67.5°	365.4	401.9	470.9	536.5	557.4
70°	316.7	355.5	426.3	491.2	515.6
72.5°	265.0	306.8	379.9	445.4	466.3
75°	215.8	260.4	335.8	385.7	393.8
77.5°	168.2	215.2	287.7	319.6	327.1
80°	122.4	172.3	225.0	248.8	247.1
82.5°	81.8	130.5	161.8	168.2	169.4
85°	47.6	82.4	91.6	91.1	91.1
87.5°	20.3	33.6	29.6	26.7	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)