

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: P798093

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345038)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-HRP-UNV-LOW-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

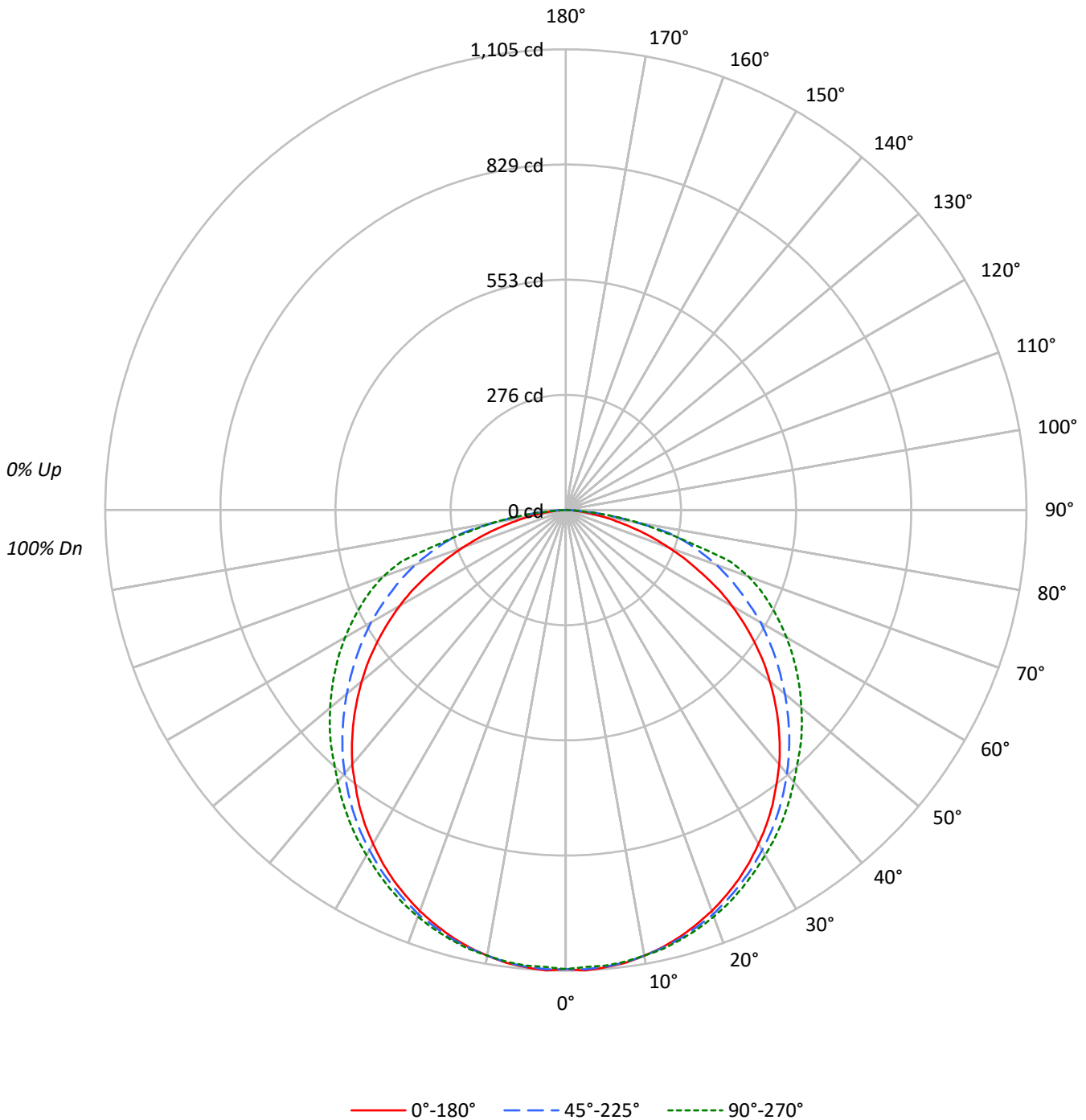
Lumens per Lamp: N/A
Luminaire Lumens: 3351.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
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	86	76	69	62	73	67	61	71	65	60	68	63	59	57	57	57	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48	48	48	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41	41	41	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36	36	36	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32	32	32	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28	28	28	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25	25	25	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1481	1481	1481
5°	1487	1485	1481
10°	1483	1483	1483
15°	1476	1482	1486
20°	1466	1478	1486
25°	1453	1470	1485
30°	1436	1463	1485
35°	1420	1457	1490
40°	1400	1450	1495
45°	1371	1442	1516
50°	1337	1436	1545
55°	1297	1438	1586
60°	1240	1452	1646
65°	1147	1467	1727
70°	1033	1513	1835
75°	873	1560	1642
80°	679	1335	1379
85°	488	909	797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 1856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.1
10°-20°	299.7	8.9
20°-30°	455.7	13.6
30°-40°	553.7	16.5
40°-50°	584.4	17.4
50°-60°	549.1	16.4
60°-70°	452.1	13.5
70°-80°	284.8	8.5
80°-90°	67.2	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°	859.8	25.7
0°-40°	1413.5	42.2
0°-60°	2547.1	76.0
0°-90°	3351.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1101	1095	1100	1098	1097	105
15°	1060	1055	1064	1067	1067	299
25°	979	978	990	996	1001	451
35°	864	868	887	899	907	540
45°	721	732	758	780	797	556
55°	553	573	613	656	676	493
65°	360	395	461	520	543	358
75°	168	220	300	327	316	179
85°	32	53	59	54	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.0	1101.0	1101.0	1101.0	1101.0
2.5°	1105.4	1098.3	1102.5	1101.0	1096.8
5°	1101.0	1095.3	1099.6	1098.3	1096.8
7.5°	1095.3	1089.6	1093.9	1092.4	1092.4
10°	1085.3	1080.9	1085.3	1085.3	1085.3
12.5°	1073.8	1069.5	1075.2	1076.7	1078.1
15°	1059.5	1055.1	1063.7	1066.6	1066.6
17.5°	1042.3	1039.4	1048.0	1050.9	1053.6
20°	1023.6	1022.1	1032.2	1035.0	1037.9
22.5°	1002.0	1002.0	1012.1	1014.9	1020.7
25°	979.0	977.5	990.5	996.2	1000.6
27.5°	953.2	953.2	967.6	974.8	979.0
30°	924.5	927.4	941.7	950.3	956.1
32.5°	895.8	898.7	915.9	925.9	933.1
35°	864.3	868.5	887.2	898.7	907.3
37.5°	829.7	837.0	857.0	869.9	880.0
40°	796.8	802.4	825.5	839.8	851.3
42.5°	759.4	769.5	792.4	809.6	822.6
45°	720.7	732.2	758.0	779.5	796.8
47.5°	680.4	694.8	722.1	750.8	768.0
50°	638.9	654.6	686.2	720.7	737.9
52.5°	597.2	614.4	648.9	689.0	707.7
55°	552.7	572.8	612.9	656.1	676.2
57.5°	506.8	529.7	575.6	624.4	644.6
60°	460.8	485.2	539.7	588.6	611.6
62.5°	413.5	440.7	499.6	555.6	577.1
65°	360.3	394.8	460.8	519.6	542.6
67.5°	311.6	347.4	423.5	482.3	506.8
70°	262.7	304.3	384.7	443.6	466.5
72.5°	213.9	262.7	341.6	402.0	414.9
75°	168.0	219.7	300.0	327.3	315.8
77.5°	123.5	180.9	252.7	238.4	235.5
80°	87.6	143.6	172.3	173.6	178.0
82.5°	56.0	106.3	112.0	113.4	114.9
85°	31.6	53.1	58.9	54.5	51.6
87.5°	14.3	17.2	14.3	10.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)