

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: P798055

Luminaire Tested: 22CZSB-SCT3-HRP-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345110)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-HRP-UNV-HIGH-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

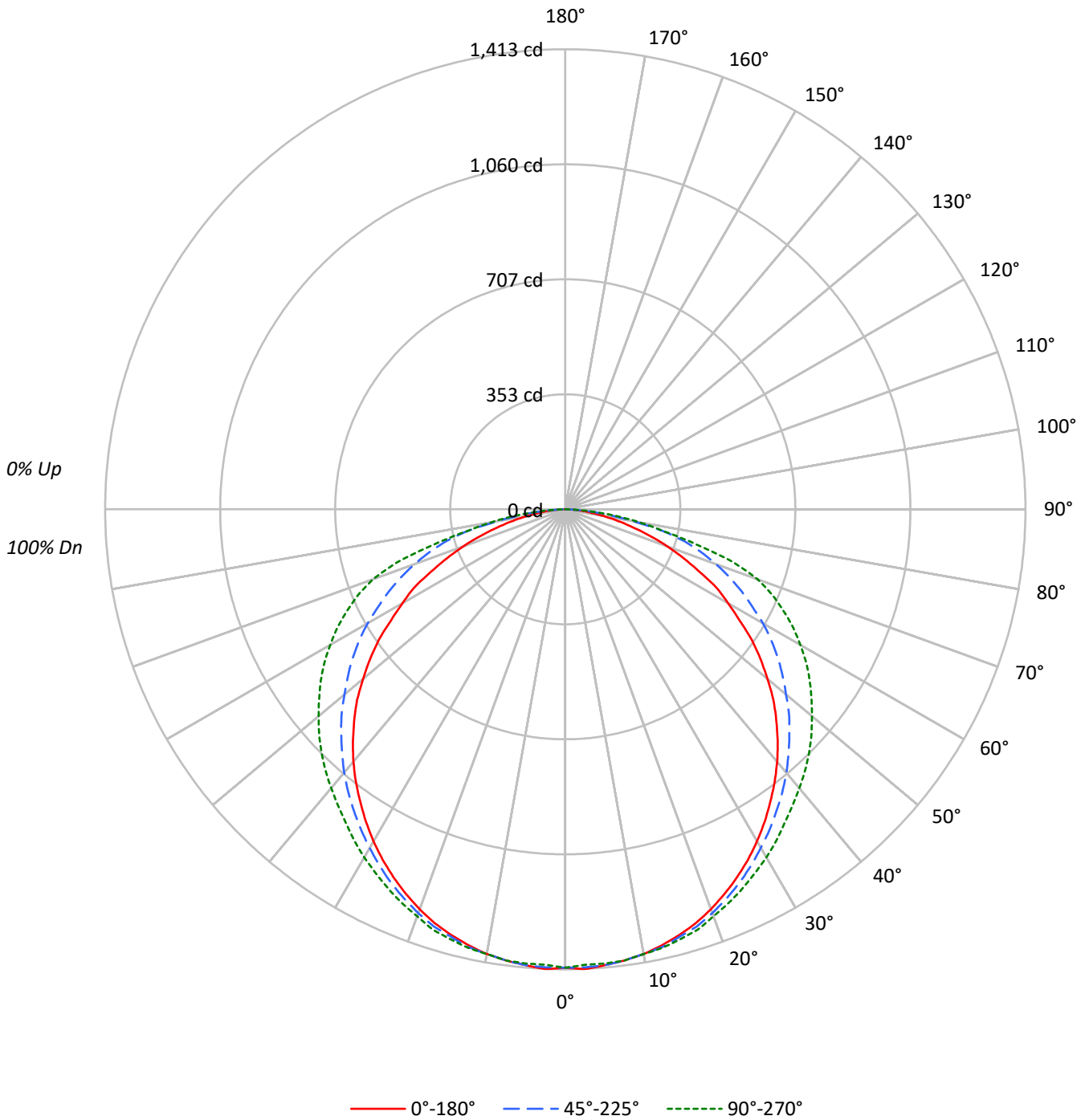
Lumens per Lamp: N/A
Luminaire Lumens: 4323.9 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	70	70	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	38	38	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	30	30	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3789	3789	3789
5°	3796	3796	3782
10°	3790	3790	3790
15°	3771	3785	3807
20°	3743	3780	3810
25°	3704	3758	3819
30°	3659	3732	3836
35°	3605	3716	3860
40°	3555	3710	3928
45°	3487	3703	4029
50°	3392	3705	4140
55°	3279	3740	4299
60°	3106	3775	4485
65°	2900	3806	4713
70°	2627	3869	4949
75°	2260	3930	4331
80°	1846	3288	3570
85°	1522	2399	2640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 4949 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.1
10°-20°	383.9	8.9
20°-30°	583.5	13.5
30°-40°	710.1	16.4
40°-50°	756.4	17.5
50°-60°	715.5	16.5
60°-70°	589.7	13.6
70°-80°	362.7	8.4
80°-90°	88.6	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°	1100.9	25.5
0°-40°	1811.0	41.9
0°-60°	3282.9	75.9
0°-90°	4323.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4323.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1405	1405	1405	1403	1400	134
15°	1354	1356	1359	1364	1366	382
25°	1247	1253	1266	1279	1286	575
35°	1098	1108	1131	1160	1175	687
45°	916	932	973	1027	1059	706
55°	699	725	797	875	916	622
65°	455	500	598	694	740	452
75°	217	277	378	412	417	233
85°	49	65	78	83	86	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1413.2	1410.6	1408.0	1402.7	1400.1
5°	1405.4	1405.4	1405.4	1402.7	1400.1
7.5°	1397.5	1397.5	1397.5	1397.5	1397.5
10°	1387.1	1387.1	1387.1	1387.1	1387.1
12.5°	1371.7	1374.3	1376.9	1376.9	1379.5
15°	1353.5	1356.1	1358.7	1363.9	1366.5
17.5°	1332.9	1335.5	1343.3	1348.5	1353.5
20°	1307.1	1309.7	1319.9	1325.1	1330.3
22.5°	1278.6	1283.6	1294.0	1304.5	1309.7
25°	1247.4	1252.6	1265.6	1278.6	1286.2
27.5°	1213.8	1219.0	1234.6	1252.6	1260.4
30°	1177.5	1182.7	1201.0	1221.6	1234.6
32.5°	1138.7	1146.5	1167.3	1193.2	1206.2
35°	1097.5	1107.7	1131.1	1159.5	1174.9
37.5°	1056.0	1066.2	1094.9	1128.5	1146.5
40°	1012.0	1025.0	1056.0	1094.9	1118.1
42.5°	965.3	981.0	1014.6	1061.2	1089.7
45°	916.3	931.7	973.1	1027.4	1058.6
47.5°	867.0	885.0	931.7	991.1	1025.0
50°	810.2	830.8	885.0	954.9	988.8
52.5°	755.7	781.5	841.2	916.3	952.5
55°	698.9	724.7	797.2	874.9	916.3
57.5°	634.0	665.3	750.5	833.4	877.5
60°	577.2	608.2	701.5	789.4	833.4
62.5°	525.3	553.9	647.0	742.7	789.4
65°	455.4	499.5	597.8	693.7	740.1
67.5°	393.4	442.6	546.1	636.6	688.5
70°	333.9	385.6	491.7	579.8	629.0
72.5°	274.2	331.3	437.4	515.1	540.9
75°	217.4	276.9	378.0	411.6	416.6
77.5°	165.5	225.2	305.5	302.9	307.9
80°	119.1	170.8	212.2	220.0	230.4
82.5°	80.3	119.1	137.1	150.2	160.6
85°	49.3	64.7	77.7	82.9	85.5
87.5°	23.2	25.8	25.8	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)