

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: P798053

Luminaire Tested: 22CZSB-SCT3-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-UNV-MID-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

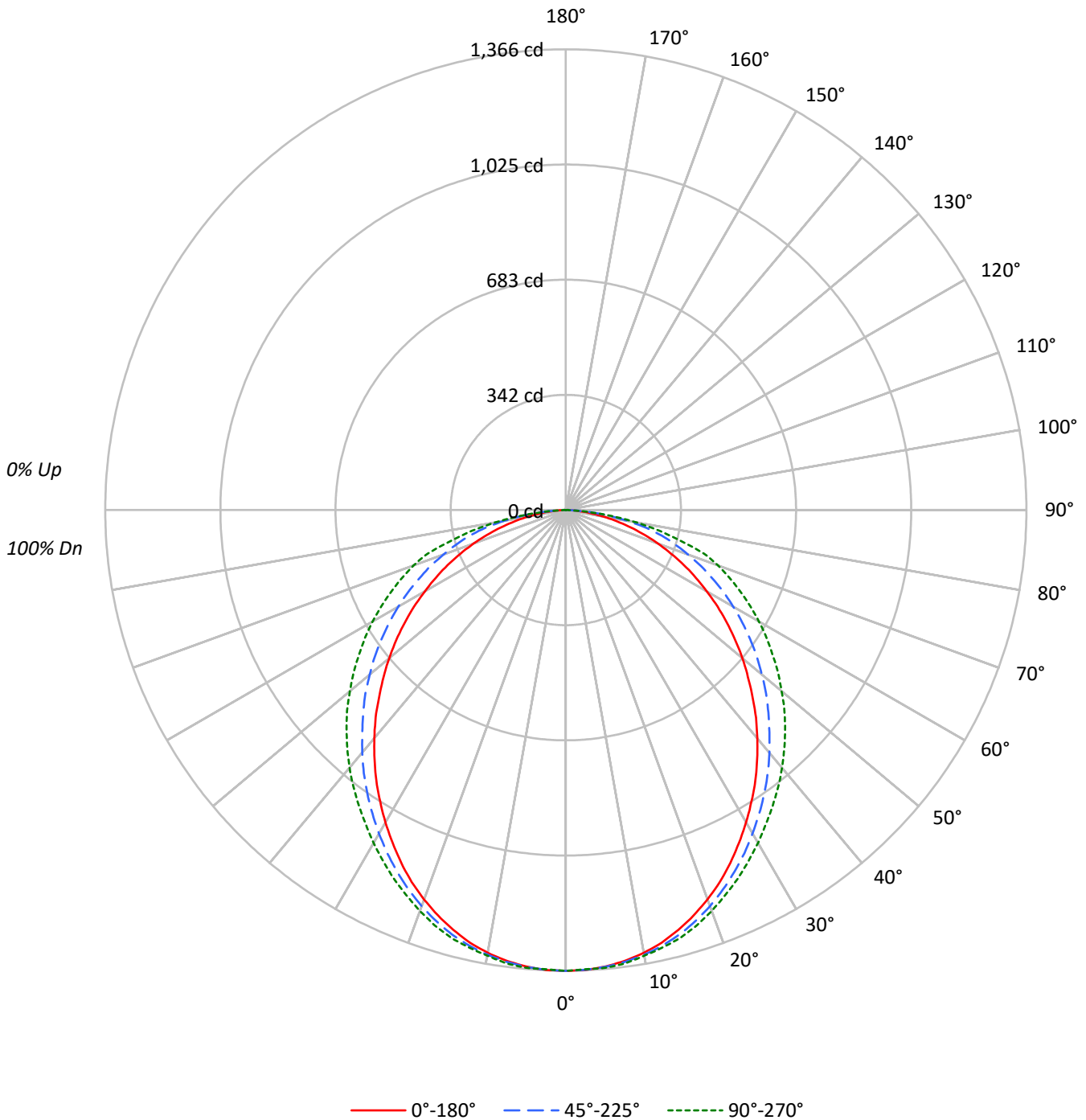
Lumens per Lamp: N/A
Luminaire Lumens: 3784.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49	49	49	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30	30	30	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27	27	27	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3677	3677	3677
5°	3670	3672	3681
10°	3643	3658	3666
15°	3592	3630	3658
20°	3519	3579	3623
25°	3428	3513	3582
30°	3324	3442	3542
35°	3219	3372	3514
40°	3103	3299	3505
45°	2979	3232	3500
50°	2864	3177	3498
55°	2738	3129	3514
60°	2596	3087	3561
65°	2460	3051	3632
70°	2286	3035	3777
75°	2073	3069	3648
80°	1760	2875	3282
85°	1454	2220	2124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.4
10°-20°	367.0	9.7
20°-30°	544.4	14.4
30°-40°	641.5	17.0
40°-50°	656.8	17.4
50°-60°	596.0	15.8
60°-70°	473.5	12.5
70°-80°	297.9	7.9
80°-90°	77.8	2.1
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°	1040.5	27.5
0°-40°	1682.1	44.5
0°-60°	2934.9	77.6
0°-90°	3784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1359	1360	1360	1361	1363	129
15°	1289	1296	1303	1311	1313	363
25°	1155	1164	1183	1201	1206	531
35°	980	993	1026	1057	1070	612
45°	783	802	849	900	920	605
55°	584	605	667	726	749	522
65°	386	411	479	542	570	382
75°	199	227	295	335	351	211
85°	47	59	72	66	69	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.5	1366.5	1366.5	1366.5	1366.5
2.5°	1364.9	1366.5	1364.2	1363.4	1362.6
5°	1358.8	1360.3	1359.5	1361.1	1362.6
7.5°	1347.9	1350.3	1351.0	1353.3	1355.7
10°	1333.2	1337.1	1338.7	1341.0	1341.8
12.5°	1313.9	1320.1	1323.2	1327.1	1328.6
15°	1289.2	1296.2	1303.1	1310.8	1313.2
17.5°	1260.6	1267.6	1278.4	1289.2	1291.5
20°	1228.9	1235.9	1249.8	1261.4	1265.2
22.5°	1194.1	1201.1	1218.1	1232.0	1235.9
25°	1154.7	1164.0	1183.3	1201.1	1206.5
27.5°	1112.2	1123.0	1147.0	1167.1	1173.3
30°	1069.7	1080.5	1107.6	1131.5	1140.0
32.5°	1024.9	1038.0	1067.4	1095.2	1104.5
35°	980.0	993.2	1026.4	1057.3	1069.7
37.5°	932.1	946.0	983.9	1019.5	1034.9
40°	883.4	898.1	939.1	980.8	997.8
42.5°	834.7	851.0	893.5	941.4	959.2
45°	782.9	802.3	849.4	900.4	919.7
47.5°	732.7	752.8	806.1	859.5	879.6
50°	684.0	703.3	759.0	815.4	835.5
52.5°	633.8	653.1	714.2	772.1	793.8
55°	583.5	605.2	667.0	725.8	748.9
57.5°	534.1	555.7	620.6	680.9	706.4
60°	482.3	507.0	573.5	635.3	661.6
62.5°	435.1	459.1	527.9	588.9	616.0
65°	386.4	411.2	479.2	541.8	570.4
67.5°	337.8	364.8	434.4	495.4	525.6
70°	290.6	318.4	385.7	449.1	480.0
72.5°	245.0	272.8	340.8	401.1	429.7
75°	199.4	227.2	295.2	335.4	350.9
77.5°	155.4	183.9	245.8	267.4	285.2
80°	113.6	140.7	185.5	202.5	211.8
82.5°	78.1	99.7	129.1	130.6	136.0
85°	47.1	58.7	71.9	66.5	68.8
87.5°	22.4	22.4	23.2	13.9	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)