

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: P798388

Luminaire Tested: 22CZSB-SCT3-SQP-UNV-LOW-4000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-SQP-UNV-LOW-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

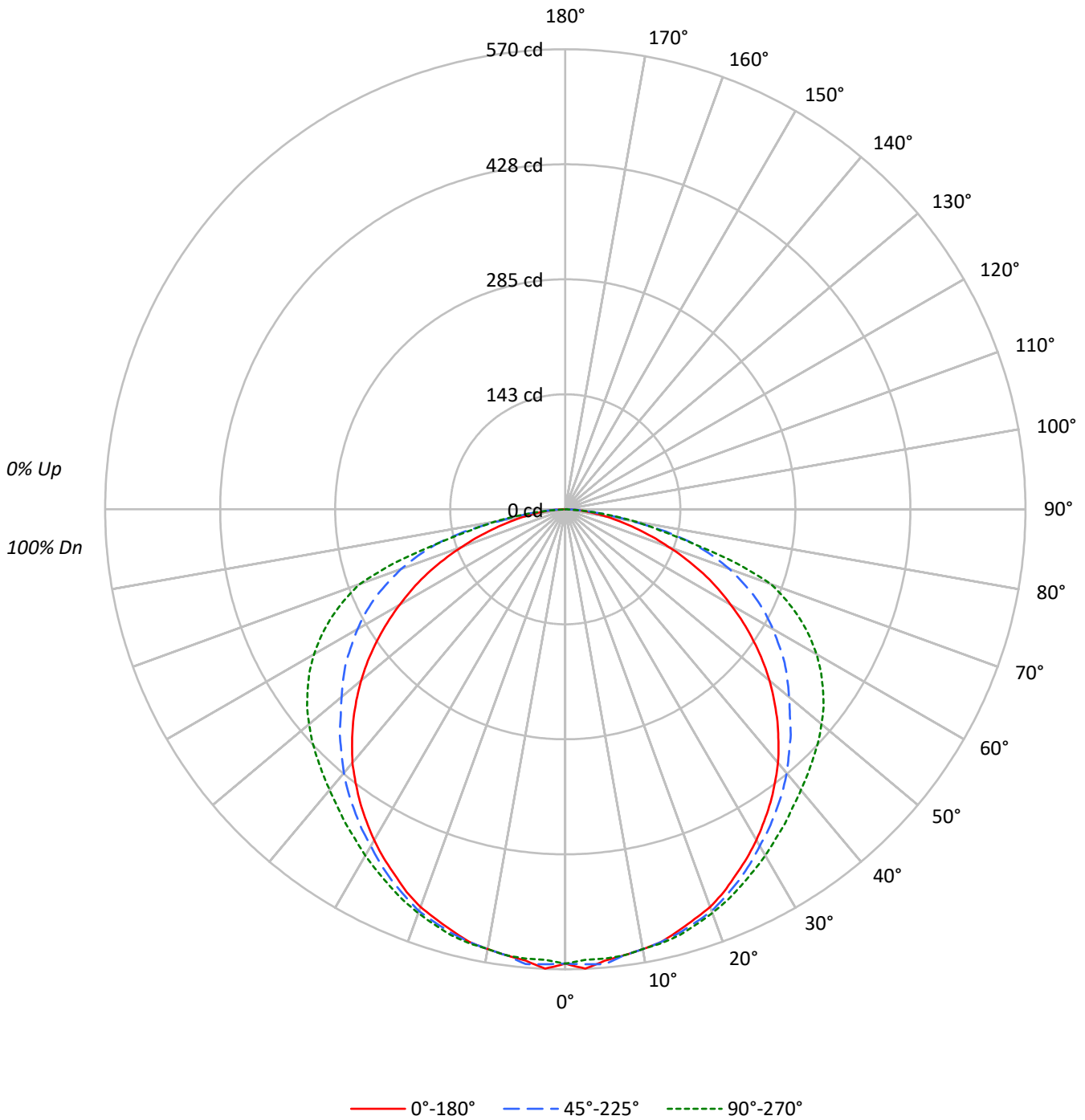
Lumens per Lamp: N/A
Luminaire Lumens: 1772.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.9
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: P798388
CATALOG NUMBER: 22CZSB-SCT3-SQP-UNV-LOW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798388

CATALOG NUMBER: 22CZSB-SCT3-SQP-UNV-LOW-4000K

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	71	77	73	70	70	70	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	58	58	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	50	50	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	43	43	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	29	29	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	27	27	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1515	1515	1515
5°	1517	1528	1509
10°	1512	1512	1512
15°	1507	1514	1522
20°	1502	1517	1525
25°	1483	1508	1529
30°	1471	1497	1539
35°	1456	1496	1560
40°	1441	1499	1595
45°	1414	1503	1655
50°	1383	1515	1734
55°	1337	1556	1827
60°	1274	1600	1933
65°	1200	1657	2042
70°	1072	1701	2134
75°	930	1703	1690
80°	789	1258	1365
85°	679	852	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 70°

Luminance: 2134 cd/sqm



TEST NUMBER: P798388
 CATALOG NUMBER: 22CZSB-SCT3-SQP-UNV-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.0
10°-20°	153.5	8.7
20°-30°	233.9	13.2
30°-40°	286.2	16.1
40°-50°	307.9	17.4
50°-60°	298.3	16.8
60°-70°	252.7	14.3
70°-80°	152.7	8.6
80°-90°	33.6	1.9
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°	440.8	24.9
0°-40°	727.0	41.0
0°-60°	1333.2	75.2
0°-90°	1772.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	562	562	566	563	559	53
15°	541	542	544	545	546	153
25°	500	502	508	512	515	231
35°	443	446	456	468	475	277
45°	372	378	395	420	435	286
55°	285	297	332	370	390	254
65°	188	209	260	301	321	186
75°	89	121	164	166	162	96
85°	22	26	28	26	25	25
90°	0	0	0	0	0	

TEST NUMBER: P798388

CATALOG NUMBER: 22CZSB-SCT3-SQP-UNV-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	562.9	562.9	562.9	562.9	562.9
2.5°	569.7	568.4	564.2	561.5	558.8
5°	561.5	561.5	565.6	562.9	558.8
7.5°	557.4	557.4	557.4	564.2	557.4
10°	553.3	554.5	553.3	558.8	553.3
12.5°	549.1	549.1	549.1	550.6	550.6
15°	540.9	542.2	543.6	545.0	546.4
17.5°	532.5	534.1	536.8	538.1	539.5
20°	524.4	525.7	529.8	529.8	532.5
22.5°	513.3	513.3	518.9	520.2	524.4
25°	499.6	502.4	507.8	512.1	514.8
27.5°	487.2	490.0	495.4	501.0	505.1
30°	473.4	476.1	481.7	490.0	495.4
32.5°	458.4	461.1	469.3	479.0	484.5
35°	443.2	446.0	455.5	468.0	474.8
37.5°	426.7	430.8	441.8	455.5	463.8
40°	410.1	414.3	426.7	441.8	454.1
42.5°	390.8	396.3	410.1	430.8	444.5
45°	371.6	378.4	395.0	419.7	434.9
47.5°	351.0	357.8	377.1	408.8	425.3
50°	330.3	338.6	361.9	396.3	414.3
52.5°	308.2	316.6	346.7	383.9	403.3
55°	284.9	297.2	331.7	370.3	389.5
57.5°	261.5	275.3	313.8	355.1	375.7
60°	236.7	253.1	297.2	338.6	359.2
62.5°	213.3	231.1	279.4	320.7	341.2
65°	188.5	209.1	260.2	301.4	320.7
67.5°	162.5	188.5	238.2	278.0	297.2
70°	136.2	166.5	216.2	253.1	271.2
72.5°	112.9	144.5	191.3	223.0	223.0
75°	89.4	121.0	163.8	166.5	162.5
77.5°	68.9	99.1	128.0	116.9	119.7
80°	50.9	75.7	81.2	85.4	88.1
82.5°	34.4	50.9	52.4	55.1	55.1
85°	22.0	26.1	27.6	26.1	24.8
87.5°	9.7	10.9	8.4	5.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)