

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: P798387

Luminaire Tested: 22CZSB-SCT3-SQP-UNV-LOW-3500K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798387
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-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

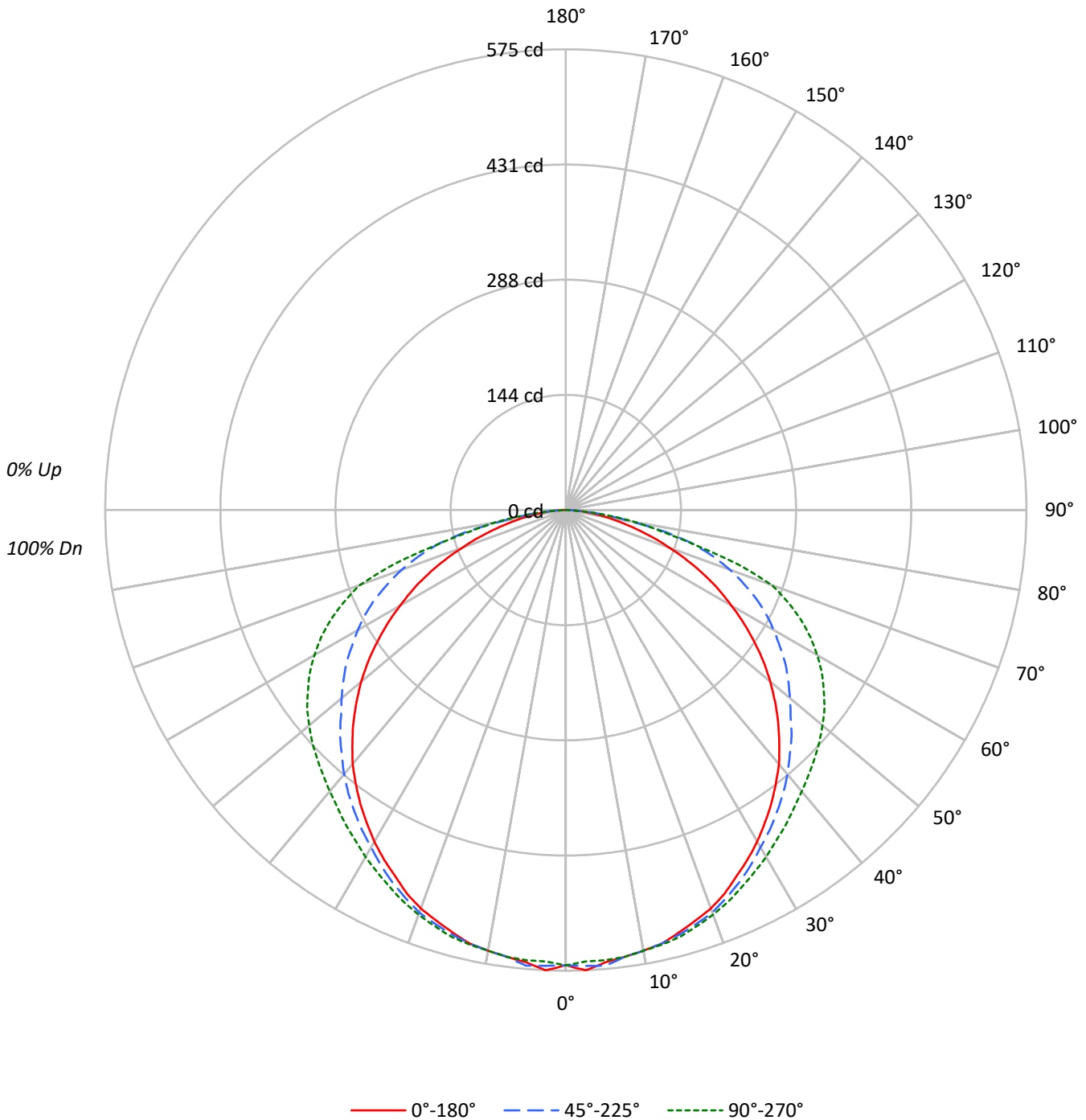
Lumens per Lamp: N/A
Luminaire Lumens: 1788.6 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.5
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	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°	1529	1529	1529
5°	1531	1542	1524
10°	1526	1526	1526
15°	1521	1528	1536
20°	1516	1531	1539
25°	1497	1522	1542
30°	1485	1510	1554
35°	1469	1510	1574
40°	1454	1513	1610
45°	1427	1517	1671
50°	1395	1529	1751
55°	1349	1570	1844
60°	1285	1614	1951
65°	1211	1672	2061
70°	1082	1717	2153
75°	938	1719	1705
80°	795	1271	1378
85°	685	858	775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2153 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.0
10°-20°	154.9	8.7
20°-30°	236.1	13.2
30°-40°	288.8	16.1
40°-50°	310.8	17.4
50°-60°	301.0	16.8
60°-70°	255.0	14.3
70°-80°	154.2	8.6
80°-90°	33.9	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°	444.9	24.9
0°-40°	733.7	41.0
0°-60°	1345.5	75.2
0°-90°	1788.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	567	567	571	568	564	54
15°	546	547	549	550	552	154
25°	504	507	512	517	520	233
35°	447	450	460	472	479	280
45°	375	382	399	424	439	289
55°	288	300	335	374	393	257
65°	190	211	263	304	324	187
75°	90	122	165	168	164	97
85°	22	26	28	26	25	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.1	568.1	568.1	568.1	568.1
2.5°	575.0	573.7	569.4	566.7	564.0
5°	566.7	566.7	570.8	568.1	564.0
7.5°	562.5	562.5	562.5	569.4	562.5
10°	558.4	559.7	558.4	564.0	558.4
12.5°	554.2	554.2	554.2	555.6	555.6
15°	545.9	547.2	548.6	550.1	551.5
17.5°	537.4	539.0	541.7	543.0	544.5
20°	529.3	530.6	534.7	534.7	537.4
22.5°	518.1	518.1	523.7	525.0	529.3
25°	504.2	507.0	512.5	516.8	519.5
27.5°	491.7	494.6	500.0	505.6	509.8
30°	477.8	480.5	486.1	494.6	500.0
32.5°	462.6	465.3	473.6	483.4	489.0
35°	447.3	450.1	459.7	472.3	479.2
37.5°	430.6	434.8	445.8	459.7	468.1
40°	413.9	418.2	430.6	445.8	458.3
42.5°	394.4	400.0	413.9	434.8	448.6
45°	375.0	381.9	398.7	423.6	439.0
47.5°	354.2	361.1	380.6	412.6	429.2
50°	333.3	341.8	365.3	400.0	418.2
52.5°	311.1	319.5	349.9	387.5	407.0
55°	287.6	299.9	334.7	373.7	393.1
57.5°	263.9	277.8	316.7	358.4	379.2
60°	238.8	255.5	299.9	341.8	362.5
62.5°	215.3	233.2	282.0	323.7	344.4
65°	190.2	211.0	262.6	304.2	323.7
67.5°	164.0	190.2	240.4	280.5	299.9
70°	137.5	168.0	218.2	255.5	273.7
72.5°	114.0	145.8	193.1	225.1	225.1
75°	90.2	122.1	165.3	168.0	164.0
77.5°	69.5	100.1	129.2	118.0	120.8
80°	51.3	76.4	82.0	86.2	88.9
82.5°	34.7	51.3	52.9	55.6	55.6
85°	22.2	26.4	27.8	26.4	25.1
87.5°	9.7	11.0	8.4	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)