

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: P798386

Luminaire Tested: 22CZSB-SCT3-SQP-UNV-LOW-3000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798386
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-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

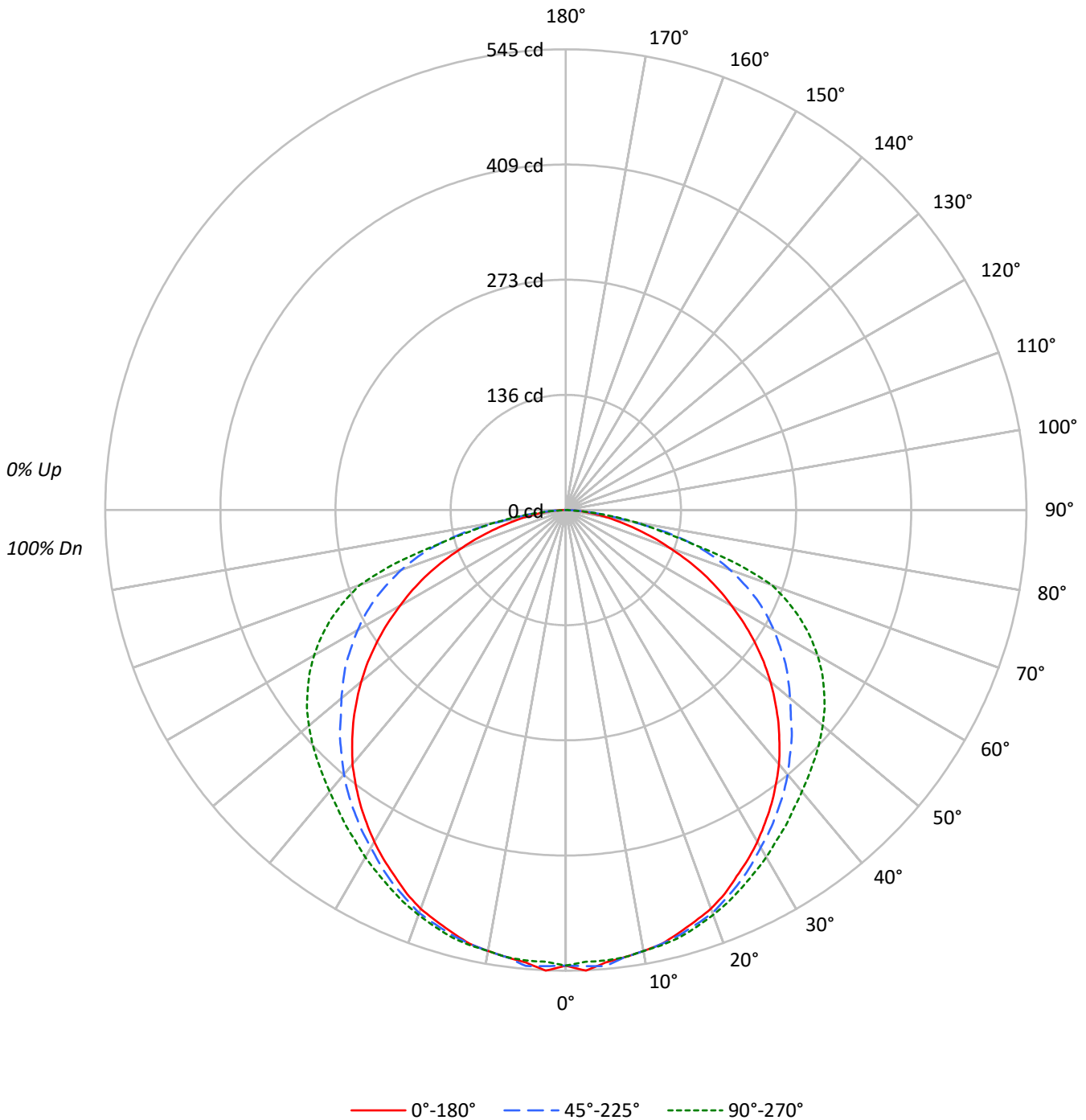
Lumens per Lamp: N/A
Luminaire Lumens: 1696.6 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	73	80	76	71	77	73	70	68	68	68	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56	56	56	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47	47	47	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41	41	41	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35	35	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31	31	31	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28	28	28	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25	25	25	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22	22	22	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1450	1450	1450
5°	1452	1463	1445
10°	1447	1447	1447
15°	1443	1450	1457
20°	1438	1452	1460
25°	1420	1443	1463
30°	1408	1433	1474
35°	1394	1433	1493
40°	1379	1435	1527
45°	1354	1439	1585
50°	1324	1451	1661
55°	1280	1490	1749
60°	1220	1531	1851
65°	1149	1586	1955
70°	1026	1629	2043
75°	889	1630	1618
80°	755	1206	1306
85°	651	815	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2043 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.0
10°-20°	146.9	8.7
20°-30°	223.9	13.2
30°-40°	274.0	16.1
40°-50°	294.8	17.4
50°-60°	285.6	16.8
60°-70°	241.9	14.3
70°-80°	146.2	8.6
80°-90°	32.2	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°	422.0	24.9
0°-40°	696.0	41.0
0°-60°	1276.3	75.2
0°-90°	1696.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	538	538	542	539	535	51
15°	518	519	520	522	523	146
25°	478	481	486	490	493	221
35°	424	427	436	448	455	265
45°	356	362	378	402	416	274
55°	273	284	318	354	373	244
65°	180	200	249	289	307	178
75°	86	116	157	159	156	92
85°	21	25	26	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.9	538.9	538.9	538.9	538.9
2.5°	545.4	544.2	540.1	537.5	535.0
5°	537.5	537.5	541.5	538.9	535.0
7.5°	533.6	533.6	533.6	540.1	533.6
10°	529.7	530.9	529.7	535.0	529.7
12.5°	525.7	525.7	525.7	527.1	527.1
15°	517.8	519.1	520.4	521.8	523.1
17.5°	509.8	511.3	513.9	515.1	516.5
20°	502.0	503.3	507.2	507.2	509.8
22.5°	491.4	491.4	496.7	498.0	502.0
25°	478.3	481.0	486.1	490.2	492.8
27.5°	466.4	469.1	474.3	479.6	483.6
30°	453.2	455.8	461.1	469.1	474.3
32.5°	438.8	441.4	449.3	458.5	463.8
35°	424.3	427.0	436.1	448.1	454.6
37.5°	408.5	412.4	422.9	436.1	444.0
40°	392.6	396.7	408.5	422.9	434.7
42.5°	374.1	379.4	392.6	412.4	425.5
45°	355.7	362.3	378.2	401.8	416.4
47.5°	336.0	342.5	361.0	391.4	407.1
50°	316.2	324.2	346.5	379.4	396.7
52.5°	295.1	303.1	331.9	367.6	386.1
55°	272.8	284.5	317.5	354.5	372.9
57.5°	250.3	263.5	300.4	340.0	359.7
60°	226.6	242.3	284.5	324.2	343.9
62.5°	204.2	221.3	267.5	307.0	326.6
65°	180.5	200.2	249.1	288.6	307.0
67.5°	155.6	180.5	228.0	266.1	284.5
70°	130.4	159.4	207.0	242.3	259.6
72.5°	108.1	138.3	183.2	213.5	213.5
75°	85.5	115.9	156.8	159.4	155.6
77.5°	65.9	94.9	122.5	111.9	114.6
80°	48.7	72.5	77.8	81.7	84.3
82.5°	32.9	48.7	50.2	52.8	52.8
85°	21.1	25.0	26.4	25.0	23.8
87.5°	9.2	10.5	8.0	5.3	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)