

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: P798124

Luminaire Tested: 24CZSB-SCT3-SQP-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-SQP-UNV-MID-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

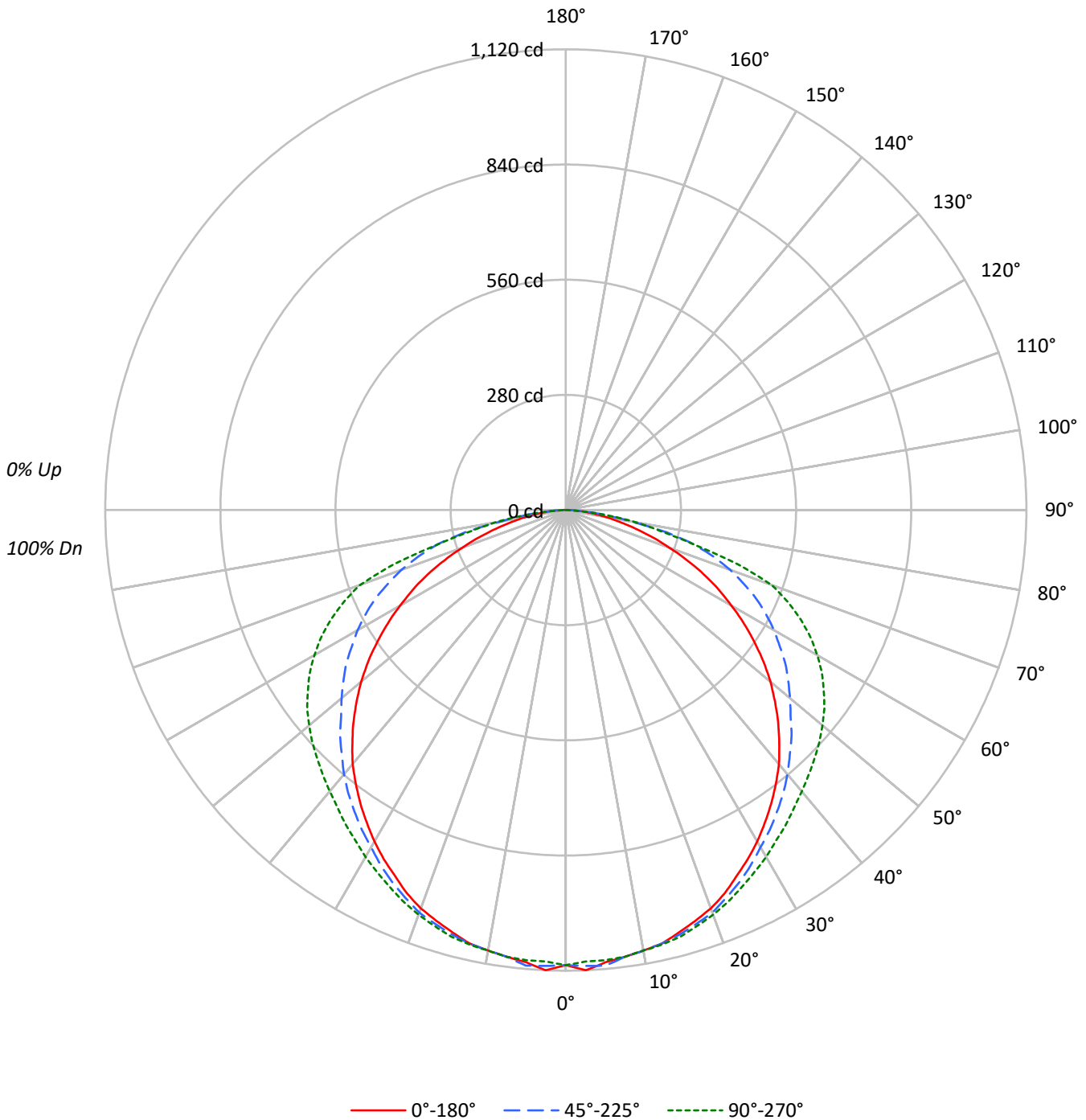
Lumens per Lamp: N/A
Luminaire Lumens: 3483.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	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°	1489	1489	1489
5°	1491	1502	1484
10°	1486	1486	1486
15°	1481	1489	1496
20°	1476	1492	1499
25°	1458	1482	1502
30°	1446	1471	1513
35°	1431	1471	1533
40°	1416	1473	1568
45°	1390	1477	1627
50°	1359	1489	1705
55°	1314	1530	1796
60°	1252	1573	1900
65°	1180	1628	2007
70°	1054	1671	2096
75°	914	1673	1660
80°	775	1237	1342
85°	668	837	752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2096 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.0
10°-20°	301.7	8.7
20°-30°	459.8	13.2
30°-40°	562.6	16.1
40°-50°	605.3	17.4
50°-60°	586.3	16.8
60°-70°	496.7	14.3
70°-80°	300.2	8.6
80°-90°	66.0	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°	866.6	24.9
0°-40°	1429.1	41.0
0°-60°	2620.8	75.2
0°-90°	3483.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3483.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1104	1104	1112	1106	1098	105
15°	1063	1066	1069	1071	1074	300
25°	982	987	998	1006	1012	453
35°	871	877	895	920	933	545
45°	730	744	776	825	855	563
55°	560	584	652	728	766	500
65°	371	411	511	592	630	365
75°	176	238	322	327	319	189
85°	43	51	54	51	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.4	1106.4	1106.4	1106.4	1106.4
2.5°	1119.9	1117.3	1109.4	1103.8	1098.5
5°	1103.8	1103.8	1111.9	1106.4	1098.5
7.5°	1095.5	1095.5	1095.5	1109.4	1095.5
10°	1087.6	1090.4	1087.6	1098.5	1087.6
12.5°	1079.5	1079.5	1079.5	1082.1	1082.1
15°	1063.2	1066.0	1068.6	1071.4	1074.1
17.5°	1047.0	1049.6	1055.1	1057.7	1060.5
20°	1030.8	1033.4	1041.7	1041.7	1047.0
22.5°	1009.0	1009.0	1019.9	1022.7	1030.8
25°	982.1	987.4	998.3	1006.4	1011.8
27.5°	957.7	963.1	974.0	984.8	993.0
30°	930.6	936.2	946.8	963.1	974.0
32.5°	900.9	906.3	922.5	941.5	952.2
35°	871.0	876.6	895.4	919.9	933.4
37.5°	838.8	846.7	868.5	895.4	911.8
40°	806.3	814.4	838.8	868.5	892.8
42.5°	768.3	779.2	806.3	846.7	874.0
45°	730.5	744.1	776.4	825.3	854.8
47.5°	689.9	703.4	741.2	803.5	836.0
50°	649.3	665.5	711.5	779.2	814.4
52.5°	606.0	622.2	681.6	754.8	792.6
55°	560.0	584.4	652.1	727.7	765.7
57.5°	513.9	541.2	616.8	698.0	738.6
60°	465.2	497.9	584.4	665.5	706.1
62.5°	419.3	454.5	549.1	630.3	671.1
65°	370.6	411.4	511.3	592.5	630.3
67.5°	319.3	370.6	468.0	546.6	584.4
70°	267.8	327.4	424.8	497.9	532.9
72.5°	221.9	284.1	376.1	438.3	438.3
75°	175.8	238.1	321.9	327.4	319.3
77.5°	135.2	194.8	251.6	229.8	235.4
80°	100.0	148.9	159.6	167.7	173.2
82.5°	67.7	100.0	102.9	108.3	108.3
85°	43.3	51.3	54.2	51.3	48.7
87.5°	19.0	21.8	16.2	10.9	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)