

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: P798125

Luminaire Tested: 24CZSB-SCT3-SQP-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798125
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-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

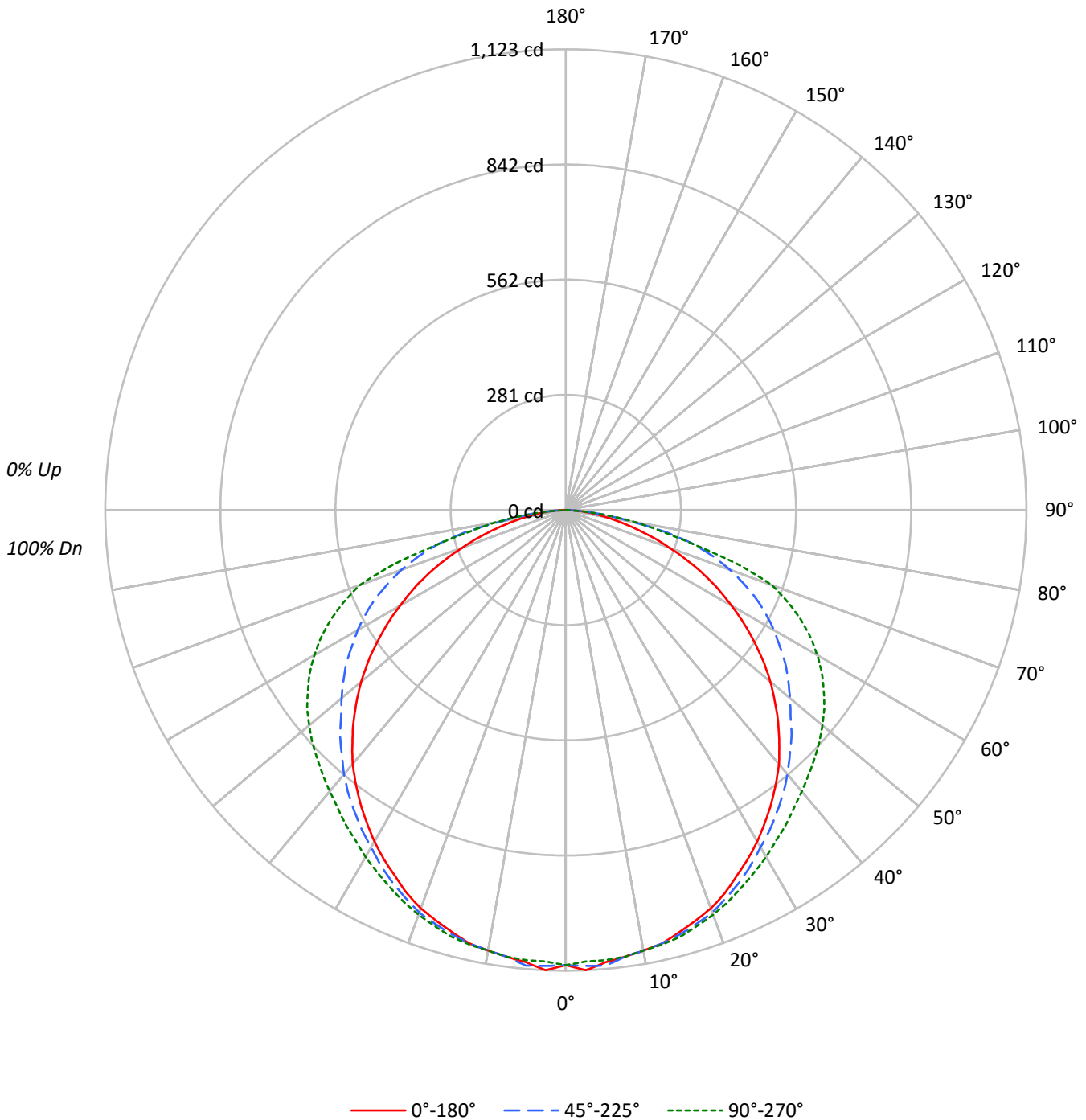
Lumens per Lamp: N/A
Luminaire Lumens: 3493.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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				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°	1493	1493	1493
5°	1495	1506	1488
10°	1490	1490	1490
15°	1485	1492	1500
20°	1480	1495	1503
25°	1462	1486	1506
30°	1450	1475	1517
35°	1435	1475	1537
40°	1420	1477	1572
45°	1394	1481	1631
50°	1363	1493	1709
55°	1317	1534	1801
60°	1255	1577	1905
65°	1183	1632	2012
70°	1057	1675	2102
75°	917	1678	1665
80°	776	1240	1346
85°	672	840	753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2102 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.0
10°-20°	302.5	8.7
20°-30°	461.0	13.2
30°-40°	564.1	16.1
40°-50°	606.9	17.4
50°-60°	587.9	16.8
60°-70°	498.0	14.3
70°-80°	301.1	8.6
80°-90°	66.2	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°	868.9	24.9
0°-40°	1432.9	41.0
0°-60°	2627.7	75.2
0°-90°	3493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1107	1107	1115	1109	1101	105
15°	1066	1069	1071	1074	1077	301
25°	985	990	1001	1009	1014	455
35°	873	879	898	922	936	546
45°	732	746	778	828	857	564
55°	562	586	654	730	768	502
65°	372	412	513	594	632	366
75°	176	239	323	328	320	189
85°	44	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°	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1122.9	1120.3	1112.3	1106.8	1101.4
5°	1106.8	1106.8	1114.9	1109.4	1101.4
7.5°	1098.4	1098.4	1098.4	1112.3	1098.4
10°	1090.5	1093.3	1090.5	1101.4	1090.5
12.5°	1082.4	1082.4	1082.4	1084.9	1084.9
15°	1066.1	1068.8	1071.4	1074.2	1077.0
17.5°	1049.8	1052.4	1057.9	1060.5	1063.3
20°	1033.5	1036.1	1044.4	1044.4	1049.8
22.5°	1011.7	1011.7	1022.6	1025.4	1033.5
25°	984.7	990.1	1001.0	1009.1	1014.5
27.5°	960.3	965.6	976.6	987.5	995.6
30°	933.1	938.6	949.4	965.6	976.6
32.5°	903.3	908.7	925.0	944.0	954.7
35°	873.4	878.9	897.8	922.4	935.9
37.5°	841.0	848.9	870.8	897.8	914.2
40°	808.4	816.6	841.0	870.8	895.2
42.5°	770.3	781.2	808.4	848.9	876.3
45°	732.4	746.1	778.5	827.5	857.1
47.5°	691.7	705.2	743.1	805.7	838.2
50°	651.0	667.3	713.4	781.2	816.6
52.5°	607.6	623.8	683.4	756.8	794.7
55°	561.5	585.9	653.8	729.6	767.7
57.5°	515.3	542.7	618.5	699.9	740.6
60°	466.5	499.2	585.9	667.3	708.0
62.5°	420.4	455.7	550.6	632.0	672.9
65°	371.6	412.4	512.7	594.1	632.0
67.5°	320.2	371.6	469.2	548.0	585.9
70°	268.6	328.3	425.9	499.2	534.3
72.5°	222.5	284.8	377.1	439.5	439.5
75°	176.3	238.8	322.7	328.3	320.2
77.5°	135.6	195.3	252.3	230.5	236.0
80°	100.2	149.3	160.0	168.1	173.7
82.5°	67.9	100.2	103.2	108.6	108.6
85°	43.5	51.4	54.4	51.4	48.8
87.5°	19.1	21.8	16.3	10.9	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)