

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: P798375

Luminaire Tested: 22CZSB-SCT3-S-UNV-HIGH-3500K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-S-UNV-HIGH-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

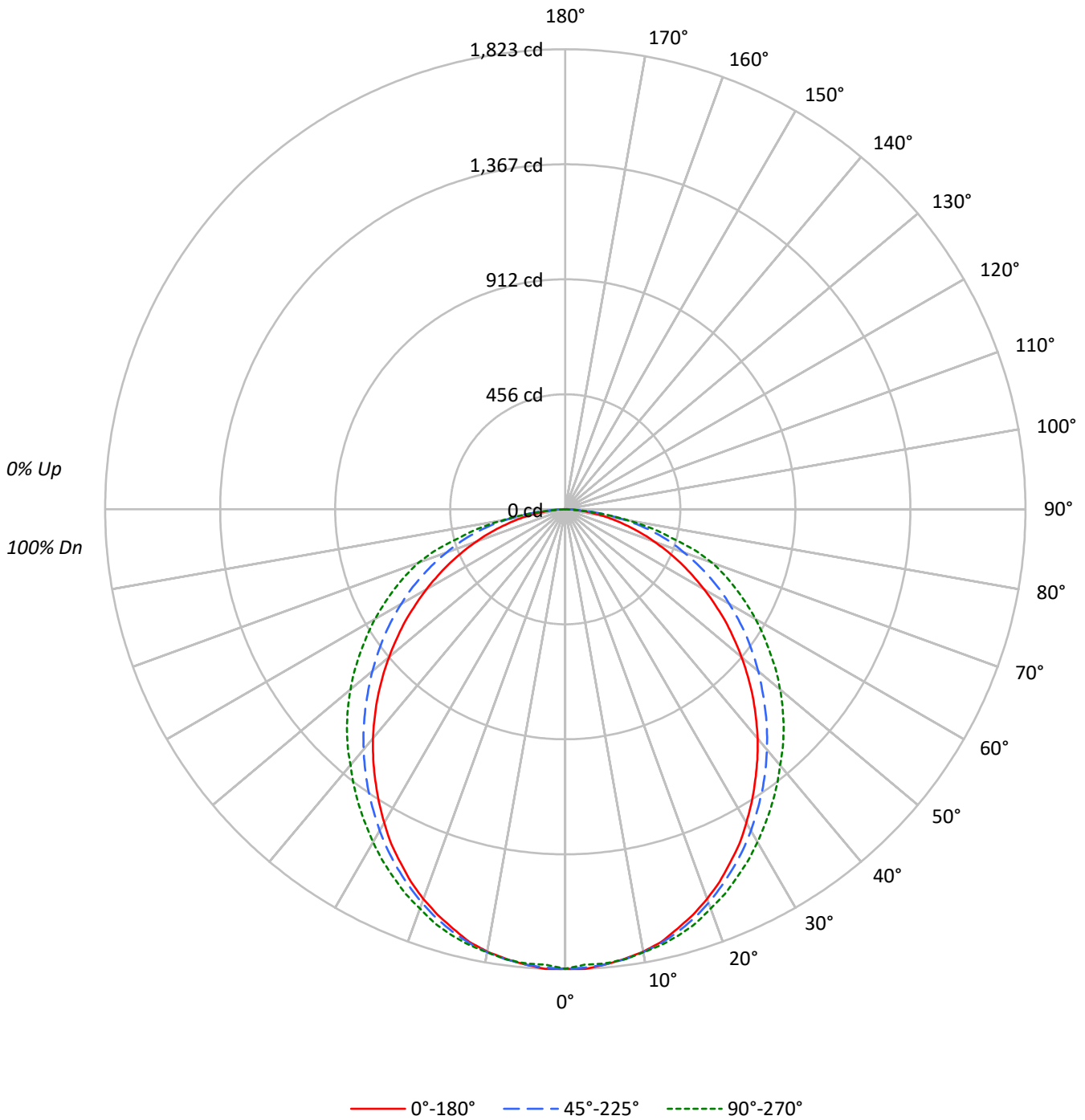
Lumens per Lamp: N/A
Luminaire Lumens: 4993.8 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	85	85	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	60	60	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4899	4899	4899
5°	4892	4892	4879
10°	4863	4870	4870
15°	4791	4824	4864
20°	4705	4754	4822
25°	4587	4665	4779
30°	4457	4569	4732
35°	4310	4468	4688
40°	4163	4365	4651
45°	3997	4263	4656
50°	3816	4177	4650
55°	3635	4107	4647
60°	3422	4042	4686
65°	3209	3987	4750
70°	2962	3943	4869
75°	2670	3915	4513
80°	2342	3640	3938
85°	1924	2742	2439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 4869 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.4
10°-20°	488.4	9.8
20°-30°	725.4	14.5
30°-40°	853.8	17.1
40°-50°	870.5	17.4
50°-60°	785.1	15.7
60°-70°	618.4	12.4
70°-80°	381.4	7.6
80°-90°	99.0	2.0
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°	1385.7	27.7
0°-40°	2239.5	44.8
0°-60°	3895.0	78.0
0°-90°	4993.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1811	1813	1811	1808	1806	172
15°	1720	1727	1732	1741	1746	485
25°	1545	1554	1571	1598	1609	712
35°	1312	1326	1360	1403	1427	821
45°	1050	1067	1120	1187	1224	810
55°	775	801	875	954	991	691
65°	504	540	626	705	746	499
75°	257	300	376	420	434	274
85°	62	79	89	84	79	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.6	1820.6	1820.6	1820.6	1820.6
2.5°	1822.9	1822.9	1818.1	1813.4	1806.1
5°	1811.1	1813.4	1811.1	1808.4	1806.1
7.5°	1796.7	1798.9	1798.9	1798.9	1798.9
10°	1779.7	1782.2	1782.2	1782.2	1782.2
12.5°	1755.8	1758.3	1760.5	1763.0	1767.7
15°	1719.9	1726.9	1731.6	1741.3	1746.1
17.5°	1684.0	1691.0	1698.4	1710.2	1719.9
20°	1643.1	1647.8	1660.0	1674.3	1684.0
22.5°	1597.5	1604.7	1616.7	1635.9	1650.3
25°	1544.8	1554.3	1571.0	1597.5	1609.4
27.5°	1494.5	1501.5	1522.9	1551.8	1568.8
30°	1434.4	1443.9	1470.5	1506.2	1522.9
32.5°	1374.6	1386.3	1415.2	1456.1	1475.3
35°	1312.0	1326.4	1360.1	1403.2	1427.2
37.5°	1249.6	1264.1	1302.5	1350.4	1376.8
40°	1185.1	1199.3	1242.7	1295.3	1323.9
42.5°	1117.7	1134.5	1182.3	1242.7	1276.1
45°	1050.4	1067.4	1120.2	1187.3	1223.5
47.5°	981.1	1000.3	1057.9	1132.2	1168.1
50°	911.6	933.0	997.8	1074.6	1110.8
52.5°	841.7	865.9	935.5	1014.8	1053.2
55°	774.7	801.1	875.4	954.4	990.6
57.5°	702.9	734.0	813.1	889.9	930.7
60°	635.8	669.2	751.0	827.5	870.7
62.5°	568.5	604.4	690.6	767.7	808.3
65°	503.9	539.5	626.1	705.1	746.0
67.5°	438.8	479.7	563.7	642.8	683.7
70°	376.5	419.6	501.2	578.2	618.8
72.5°	316.6	359.8	441.3	513.4	537.3
75°	256.8	299.9	376.5	419.6	434.1
77.5°	201.5	242.3	309.4	335.8	355.0
80°	151.1	187.0	234.9	251.8	254.1
82.5°	103.0	134.4	163.3	165.6	163.3
85°	62.3	79.0	88.8	83.8	79.0
87.5°	28.9	31.2	28.9	19.2	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)