

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: P798366

Luminaire Tested: 14CZSB-SCT3-S-UNV-HIGH-3500K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-S-UNV-HIGH-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

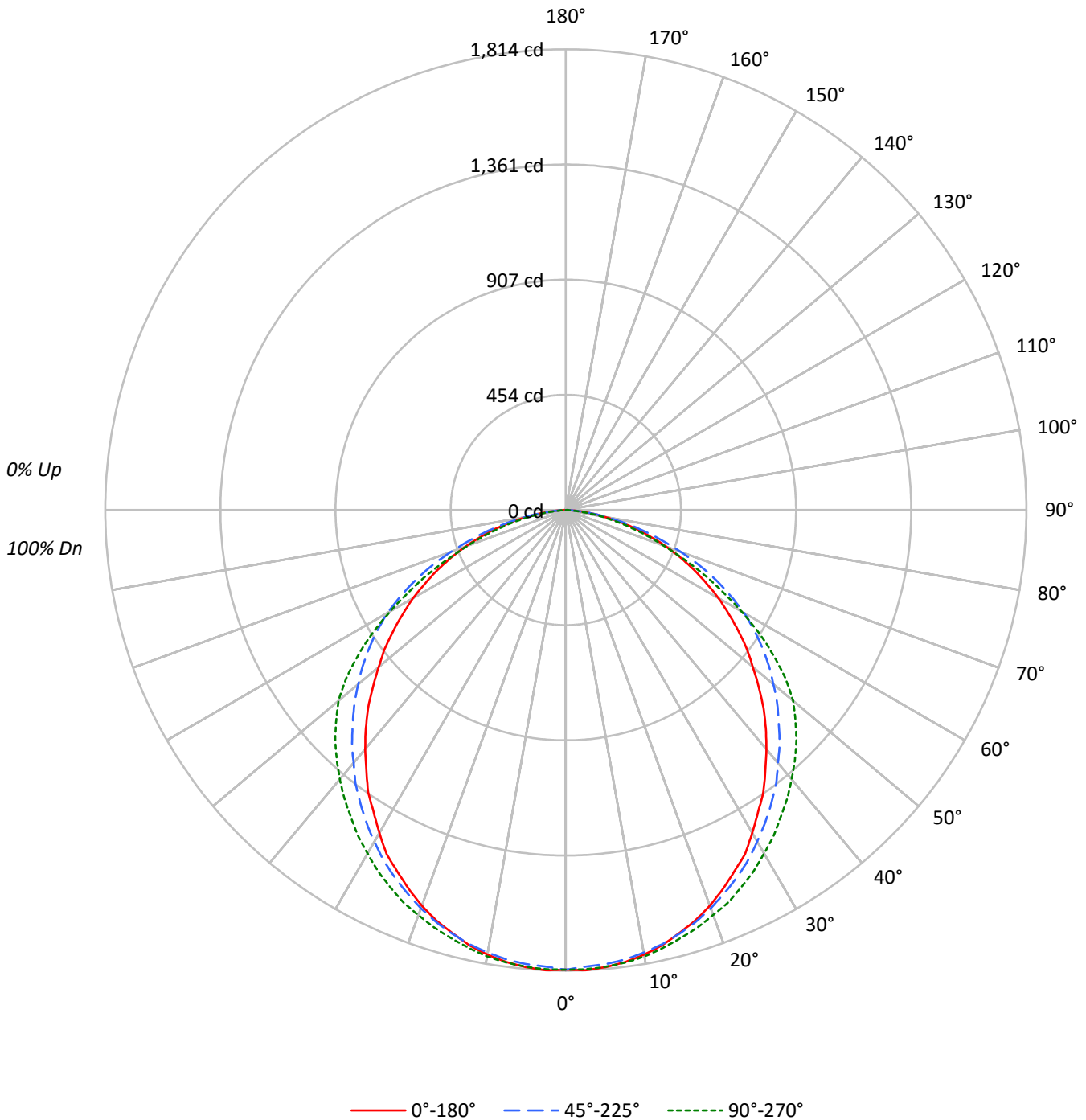
Lumens per Lamp: N/A
Luminaire Lumens: 5019.8 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2440	2424	2438
10°	2429	2418	2439
15°	2403	2406	2431
20°	2374	2389	2430
25°	2331	2368	2431
30°	2281	2342	2426
35°	2228	2317	2423
40°	2159	2284	2431
45°	2095	2257	2444
50°	2013	2233	2445
55°	1946	2216	2343
60°	1870	2183	2148
65°	1769	2079	1911
70°	1652	1889	1614
75°	1490	1647	1355
80°	1199	1292	1033
85°	852	741	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 2445 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	3.4
10°-20°	489.3	9.7
20°-30°	738.2	14.7
30°-40°	885.1	17.6
40°-50°	918.5	18.3
50°-60°	829.2	16.5
60°-70°	603.9	12.0
70°-80°	316.7	6.3
80°-90°	67.7	1.3
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°	1398.7	27.9
0°-40°	2283.8	45.5
0°-60°	4031.4	80.3
0°-90°	5019.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5019.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1807	1803	1795	1807	1805	172
15°	1725	1725	1727	1747	1746	487
25°	1570	1578	1595	1630	1638	724
35°	1356	1369	1410	1463	1475	846
45°	1101	1125	1186	1260	1284	847
55°	830	858	945	1001	999	742
65°	556	590	653	623	600	550
75°	287	328	317	274	261	302
85°	55	66	48	37	35	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.0	1810.0	1810.0	1810.0	1810.0
2.5°	1813.9	1809.0	1799.4	1811.3	1810.0
5°	1806.6	1803.0	1794.8	1806.6	1805.4
7.5°	1794.8	1792.2	1785.0	1798.1	1796.8
10°	1777.8	1774.2	1769.5	1783.7	1785.0
12.5°	1755.1	1753.8	1751.2	1766.9	1765.7
15°	1724.9	1724.9	1727.2	1746.6	1745.5
17.5°	1695.0	1695.0	1700.9	1722.6	1723.6
20°	1657.9	1660.2	1668.5	1695.0	1697.3
22.5°	1615.6	1618.2	1632.6	1666.1	1672.3
25°	1570.0	1578.5	1595.3	1630.1	1637.5
27.5°	1528.0	1529.3	1554.5	1592.9	1602.5
30°	1467.9	1484.9	1507.6	1552.2	1561.7
32.5°	1409.1	1426.1	1460.9	1508.9	1522.0
35°	1356.5	1369.4	1410.4	1463.3	1475.4
37.5°	1290.5	1311.9	1359.9	1415.3	1432.1
40°	1229.2	1248.3	1300.1	1362.5	1383.9
42.5°	1165.5	1187.2	1246.2	1313.2	1334.9
45°	1100.8	1124.8	1186.1	1260.4	1284.3
47.5°	1029.9	1060.1	1129.4	1205.2	1226.9
50°	961.6	992.5	1067.0	1146.4	1168.1
52.5°	898.9	926.8	1008.2	1081.5	1091.0
55°	829.6	858.5	944.6	1001.3	998.7
57.5°	760.0	792.2	878.8	913.4	903.8
60°	695.0	724.9	811.3	818.8	798.1
62.5°	623.1	657.9	731.1	720.3	695.0
65°	555.8	589.6	653.0	623.1	600.2
67.5°	487.2	523.3	569.0	524.6	498.1
70°	420.0	463.3	480.3	432.3	410.4
72.5°	351.6	397.3	396.0	350.3	332.6
75°	286.7	327.7	316.8	273.8	260.6
77.5°	218.4	259.3	238.7	206.5	194.4
80°	154.7	193.3	166.8	141.5	133.3
82.5°	105.4	128.4	104.4	82.8	79.1
85°	55.2	66.0	48.0	37.1	34.8
87.5°	20.4	19.1	17.0	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)