

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: P798011

Luminaire Tested: 14CZSB-SCT3-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-48)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-UNV-HIGH-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

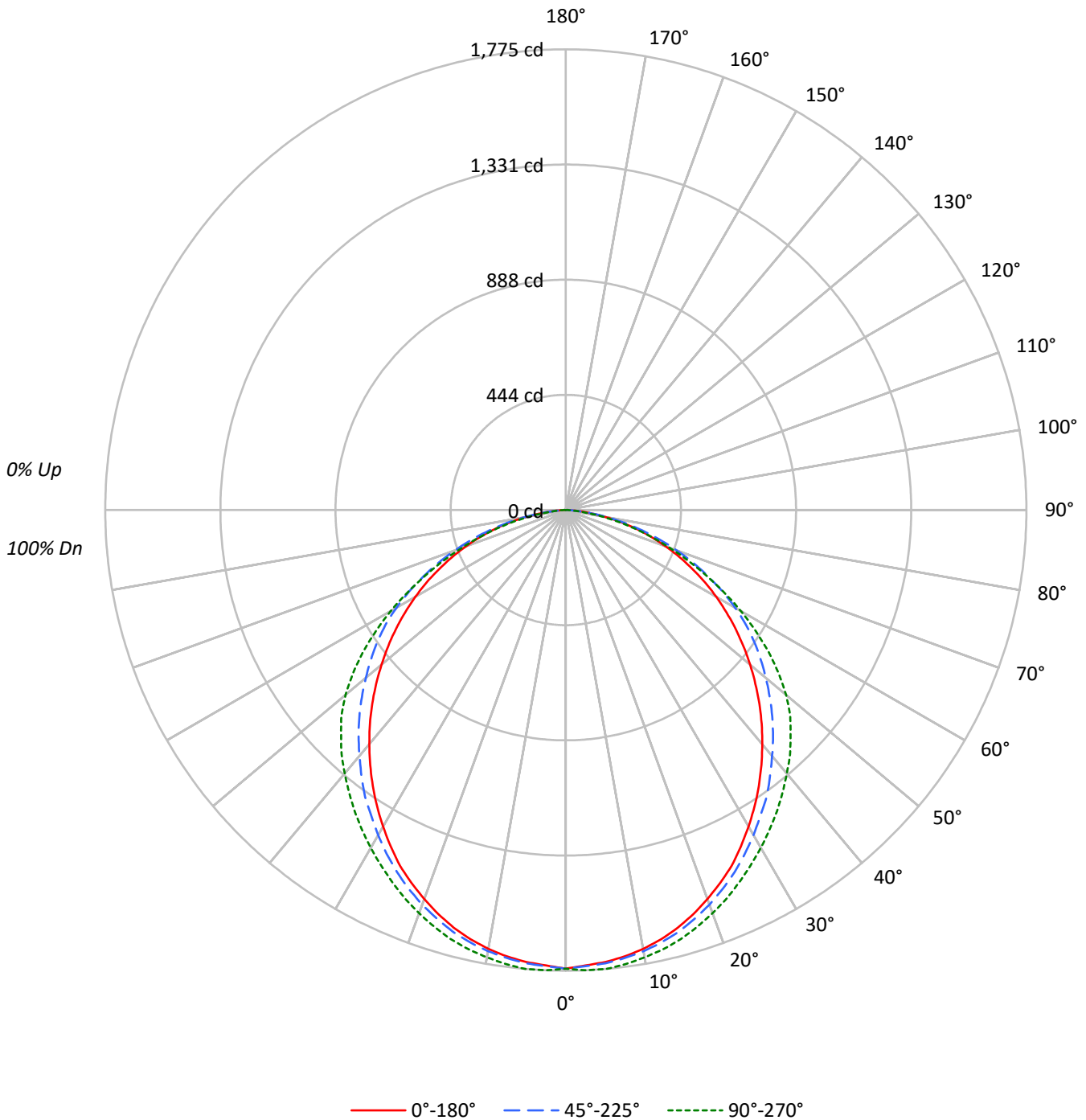
Lumens per Lamp: N/A
Luminaire Lumens: 4824.9 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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	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	47	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	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4722	4736	4795
10°	4692	4717	4782
15°	4642	4686	4770
20°	4568	4634	4734
25°	4490	4570	4698
30°	4375	4493	4671
35°	4261	4432	4658
40°	4138	4345	4654
45°	4015	4281	4662
50°	3881	4212	4639
55°	3749	4161	4476
60°	3606	4058	4193
65°	3432	3852	3808
70°	3218	3572	3352
75°	2942	3182	2838
80°	2433	2541	2139
85°	1698	1420	1081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 47.5°
 Luminance: 4672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.5
10°-20°	475.9	9.9
20°-30°	712.2	14.8
30°-40°	848.0	17.6
40°-50°	876.2	18.2
50°-60°	787.6	16.3
60°-70°	580.5	12.0
70°-80°	311.6	6.5
80°-90°	65.8	1.4
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°	1355.2	28.1
0°-40°	2203.2	45.7
0°-60°	3866.9	80.1
0°-90°	4824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4824.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1748	1764	1753	1761	1775	166
15°	1666	1683	1682	1700	1712	469
25°	1512	1531	1539	1567	1582	695
35°	1297	1321	1349	1397	1418	811
45°	1055	1080	1125	1199	1225	814
55°	799	823	887	946	954	714
65°	539	563	605	607	598	534
75°	283	309	306	284	273	298
85°	55	64	46	35	35	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1756.1	1771.1	1759.1	1768.1	1775.1
5°	1748.1	1764.1	1753.1	1761.1	1775.1
7.5°	1735.1	1751.1	1741.1	1752.1	1765.1
10°	1717.1	1733.1	1726.1	1738.1	1750.1
12.5°	1694.1	1710.1	1706.1	1720.1	1733.1
15°	1666.1	1683.1	1682.1	1700.1	1712.1
17.5°	1633.1	1651.1	1651.1	1672.1	1684.1
20°	1595.1	1615.1	1618.1	1639.1	1653.1
22.5°	1555.1	1574.1	1580.1	1603.1	1620.1
25°	1512.1	1531.1	1539.1	1567.1	1582.1
27.5°	1461.1	1487.1	1494.1	1528.1	1543.1
30°	1408.0	1431.1	1446.1	1485.1	1503.1
32.5°	1354.0	1378.0	1396.0	1441.1	1461.1
35°	1297.0	1321.0	1349.0	1397.0	1418.0
37.5°	1238.0	1263.0	1293.0	1349.0	1372.0
40°	1178.0	1204.0	1237.0	1299.0	1325.0
42.5°	1117.0	1142.0	1182.0	1249.0	1279.0
45°	1055.0	1080.0	1125.0	1199.0	1225.0
47.5°	991.0	1017.0	1066.0	1145.0	1173.0
50°	927.0	952.0	1006.0	1087.0	1108.0
52.5°	863.0	887.0	947.0	1019.0	1034.0
55°	799.0	823.0	887.0	946.0	954.0
57.5°	734.0	757.0	824.0	865.0	868.0
60°	670.0	692.0	754.0	781.0	779.0
62.5°	605.0	627.0	681.0	695.0	688.0
65°	539.0	563.0	605.0	607.0	598.0
67.5°	474.0	500.0	531.0	522.0	510.0
70°	409.0	439.0	454.0	439.0	426.0
72.5°	346.0	376.0	379.0	359.0	347.0
75°	283.0	309.0	306.0	284.0	273.0
77.5°	219.0	244.0	234.0	211.0	202.0
80°	157.0	179.0	164.0	144.0	138.0
82.5°	102.0	119.0	102.0	83.0	79.0
85°	55.0	64.0	46.0	35.0	35.0
87.5°	20.0	18.0	16.0	15.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)