

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: P798019

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345154)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-HRP-UNV-HIGH-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

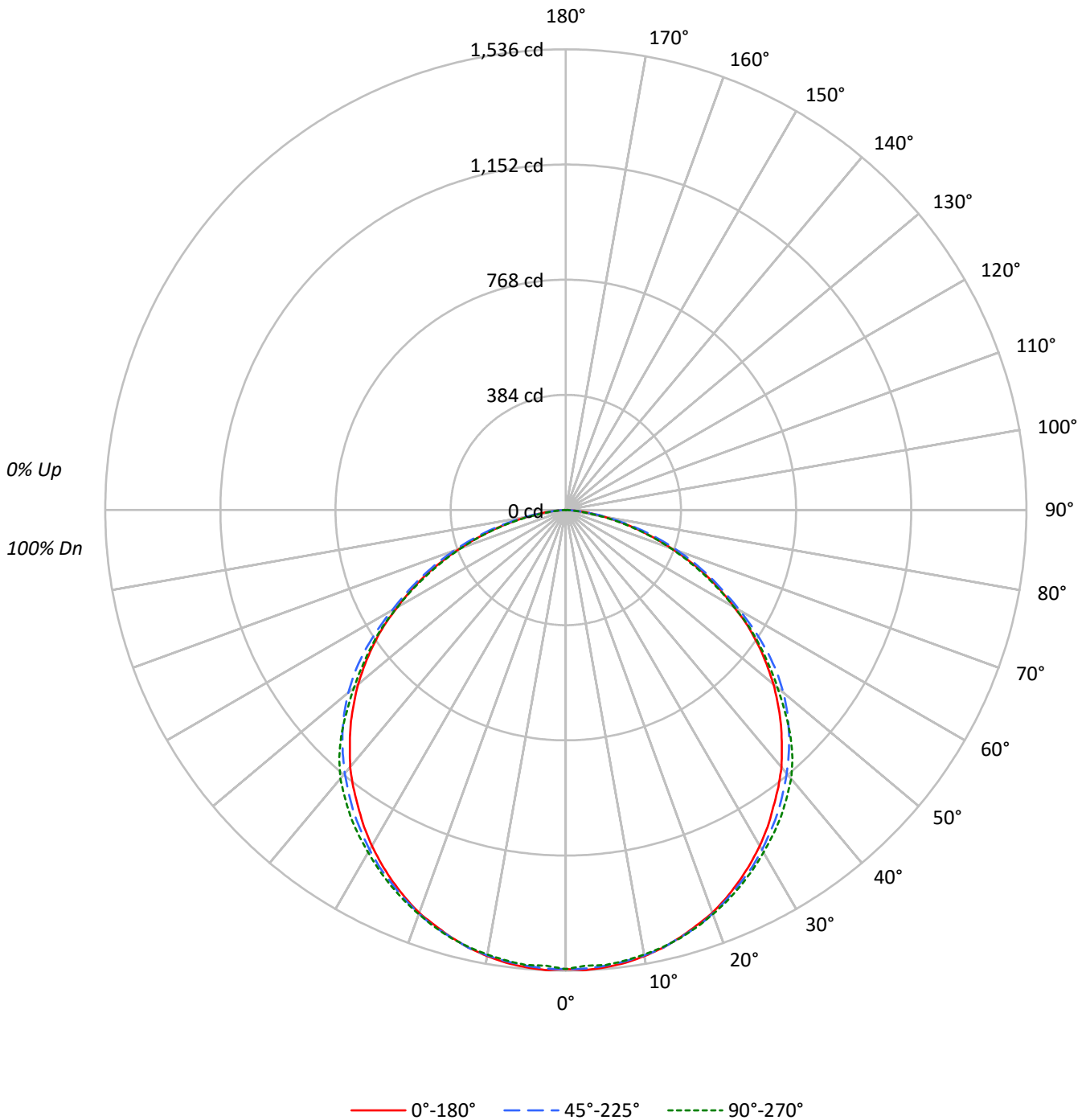
Lumens per Lamp: N/A
Luminaire Lumens: 4324.7 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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	65	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	55	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	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	41	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	46	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4118	4118	4118
5°	4134	4120	4113
10°	4127	4120	4113
15°	4109	4109	4116
20°	4093	4101	4107
25°	4057	4079	4102
30°	4018	4065	4096
35°	3965	4048	4107
40°	3929	4027	4108
45°	3864	4007	4027
50°	3785	3964	3859
55°	3673	3839	3708
60°	3493	3602	3493
65°	3297	3392	3231
70°	2960	3120	2921
75°	2546	2758	2493
80°	1996	2152	1799
85°	1408	1247	1090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 4036 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	3.3
10°-20°	416.1	9.6
20°-30°	632.2	14.6
30°-40°	767.9	17.8
40°-50°	802.1	18.5
50°-60°	713.4	16.5
60°-70°	520.6	12.0
70°-80°	271.6	6.3
80°-90°	56.1	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°	1193.1	27.6
0°-40°	1961.0	45.3
0°-60°	3476.4	80.4
0°-90°	4324.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4324.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1530	1520	1525	1523	1523	145
15°	1475	1467	1475	1478	1478	416
25°	1366	1361	1374	1376	1381	630
35°	1207	1207	1232	1240	1250	756
45°	1015	1018	1053	1061	1058	782
55°	783	798	818	796	790	698
65°	518	546	533	518	508	510
75°	245	268	265	247	240	261
85°	46	50	40	35	35	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.4	1530.4	1530.4	1530.4	1530.4
2.5°	1535.5	1525.2	1530.4	1527.9	1520.3
5°	1530.4	1520.3	1525.2	1522.8	1522.8
7.5°	1522.8	1512.7	1517.6	1515.2	1515.2
10°	1510.3	1500.0	1507.6	1505.1	1505.1
12.5°	1495.1	1484.8	1495.1	1492.4	1492.4
15°	1474.8	1467.2	1474.8	1477.5	1477.5
17.5°	1452.0	1447.1	1457.1	1457.1	1457.1
20°	1429.4	1421.9	1431.9	1431.9	1434.3
22.5°	1399.1	1391.5	1404.2	1401.5	1409.1
25°	1366.3	1361.1	1373.8	1376.3	1381.4
27.5°	1331.0	1328.3	1343.5	1345.9	1351.1
30°	1293.0	1287.9	1308.2	1310.7	1318.2
32.5°	1252.6	1252.6	1270.2	1275.4	1285.4
35°	1207.0	1207.0	1232.3	1239.9	1250.2
37.5°	1164.2	1164.2	1189.4	1202.1	1209.7
40°	1118.6	1118.6	1146.5	1159.0	1169.3
42.5°	1065.7	1068.2	1101.0	1113.7	1118.6
45°	1015.3	1017.7	1053.0	1060.6	1058.1
47.5°	959.7	967.3	1002.5	997.6	990.0
50°	904.1	911.7	946.9	926.8	921.7
52.5°	843.6	856.1	886.4	858.5	856.1
55°	782.8	798.0	818.3	795.6	790.4
57.5°	719.6	740.0	745.1	729.9	724.8
60°	649.1	676.8	669.2	656.7	649.1
62.5°	583.4	608.7	598.6	585.9	578.3
65°	517.8	545.5	532.7	517.8	507.5
67.5°	447.0	479.8	464.6	447.0	439.4
70°	376.2	404.1	396.6	378.9	371.3
72.5°	308.1	333.4	330.9	313.0	305.7
75°	244.9	267.7	265.3	247.4	239.8
77.5°	184.4	207.0	199.6	184.4	176.8
80°	128.8	148.9	138.9	123.7	116.1
82.5°	83.3	93.3	83.3	70.8	65.6
85°	45.6	50.5	40.4	35.3	35.3
87.5°	15.2	17.6	17.6	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)