

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: P798372

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

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798372
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-MID-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

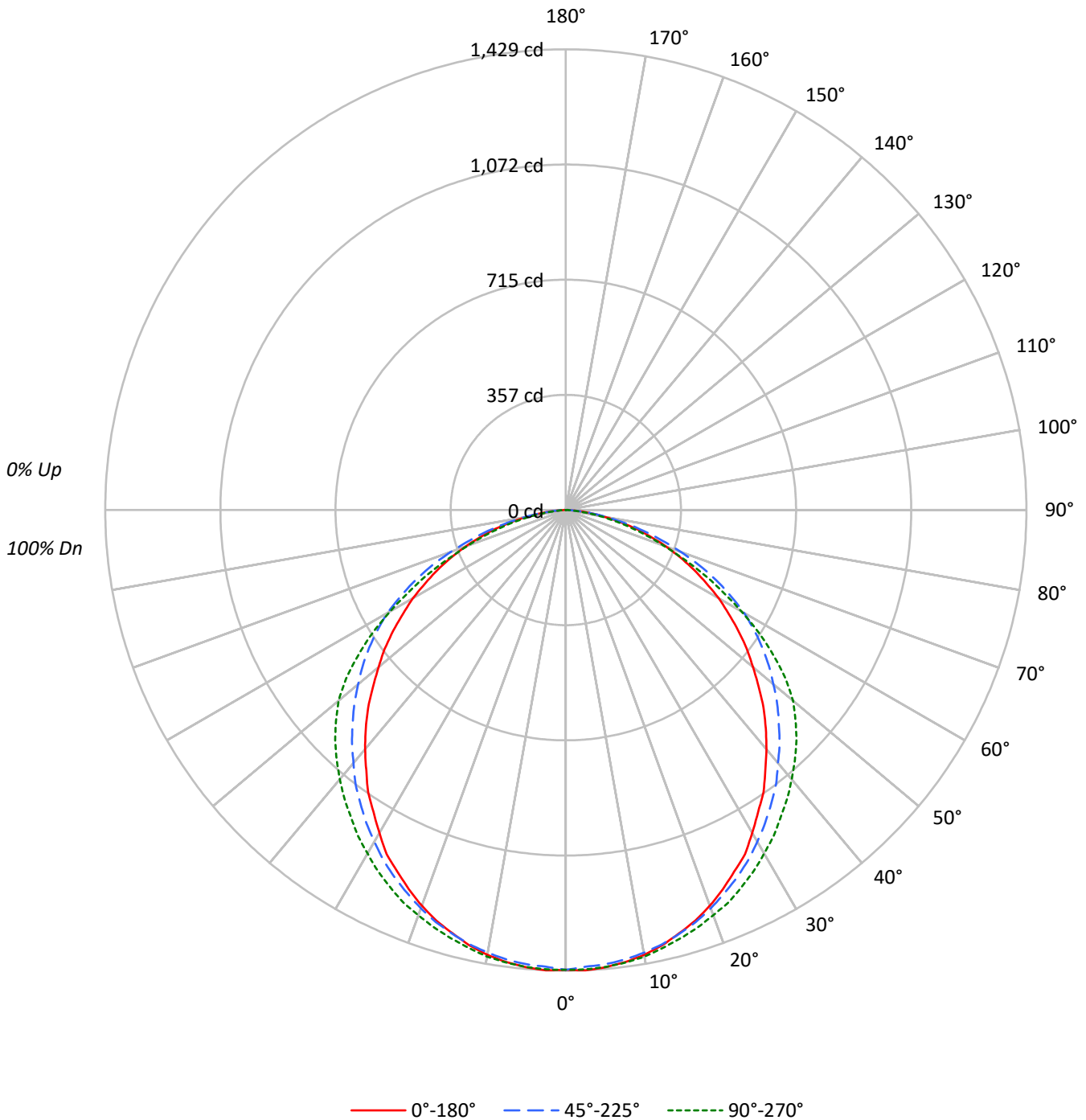
Lumens per Lamp: N/A
Luminaire Lumens: 3955.2 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.5
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				
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°	1919	1919	1919
5°	1923	1910	1921
10°	1914	1905	1922
15°	1893	1896	1916
20°	1870	1882	1915
25°	1836	1866	1916
30°	1797	1846	1912
35°	1756	1825	1909
40°	1701	1799	1915
45°	1650	1778	1926
50°	1586	1760	1927
55°	1533	1746	1846
60°	1474	1720	1692
65°	1394	1638	1506
70°	1302	1489	1272
75°	1174	1298	1068
80°	945	1018	814
85°	672	584	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 50°
 Luminance: 1927 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.4
10°-20°	385.5	9.7
20°-30°	581.6	14.7
30°-40°	697.4	17.6
40°-50°	723.7	18.3
50°-60°	653.3	16.5
60°-70°	475.8	12.0
70°-80°	249.5	6.3
80°-90°	53.4	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°	1102.1	27.9
0°-40°	1799.5	45.5
0°-60°	3176.5	80.3
0°-90°	3955.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1424	1421	1414	1424	1422	135
15°	1359	1359	1361	1376	1375	384
25°	1237	1244	1257	1284	1290	570
35°	1069	1079	1111	1153	1162	667
45°	867	886	935	993	1012	668
55°	654	676	744	789	787	584
65°	438	465	514	491	473	433
75°	226	258	250	216	205	238
85°	44	52	38	29	27	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.2	1426.2	1426.2	1426.2	1426.2
2.5°	1429.2	1425.3	1417.8	1427.2	1426.2
5°	1423.5	1420.7	1414.2	1423.5	1422.5
7.5°	1414.2	1412.1	1406.5	1416.8	1415.8
10°	1400.8	1397.9	1394.3	1405.4	1406.5
12.5°	1382.9	1381.9	1379.8	1392.2	1391.2
15°	1359.1	1359.1	1361.0	1376.2	1375.4
17.5°	1335.6	1335.6	1340.2	1357.3	1358.1
20°	1306.3	1308.1	1314.6	1335.6	1337.4
22.5°	1273.0	1275.0	1286.4	1312.8	1317.7
25°	1237.0	1243.7	1257.0	1284.4	1290.3
27.5°	1203.9	1205.0	1224.9	1255.1	1262.6
30°	1156.6	1170.0	1187.9	1223.0	1230.5
32.5°	1110.3	1123.7	1151.1	1188.9	1199.3
35°	1068.9	1079.0	1111.3	1153.0	1162.5
37.5°	1016.9	1033.7	1071.5	1115.2	1128.4
40°	968.5	983.5	1024.4	1073.5	1090.4
42.5°	918.3	935.4	981.9	1034.7	1051.8
45°	867.4	886.2	934.6	993.1	1012.0
47.5°	811.5	835.3	889.9	949.6	966.7
50°	757.7	782.0	840.7	903.3	920.4
52.5°	708.3	730.2	794.4	852.1	859.6
55°	653.7	676.4	744.3	788.9	786.9
57.5°	598.8	624.2	692.5	719.7	712.2
60°	547.6	571.2	639.2	645.1	628.9
62.5°	491.0	518.4	576.1	567.5	547.6
65°	437.9	464.6	514.5	491.0	472.9
67.5°	383.9	412.3	448.3	413.4	392.4
70°	330.9	365.0	378.4	340.6	323.4
72.5°	277.1	313.0	312.0	276.1	262.0
75°	225.9	258.2	249.6	215.7	205.4
77.5°	172.0	204.3	188.1	162.7	153.2
80°	121.9	152.3	131.4	111.5	105.0
82.5°	83.1	101.2	82.3	65.2	62.4
85°	43.5	52.0	37.8	29.3	27.4
87.5°	16.0	15.0	13.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)