

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: P798105

Luminaire Tested: 24CZSB-SCT3-S-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-S-UNV-MID-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

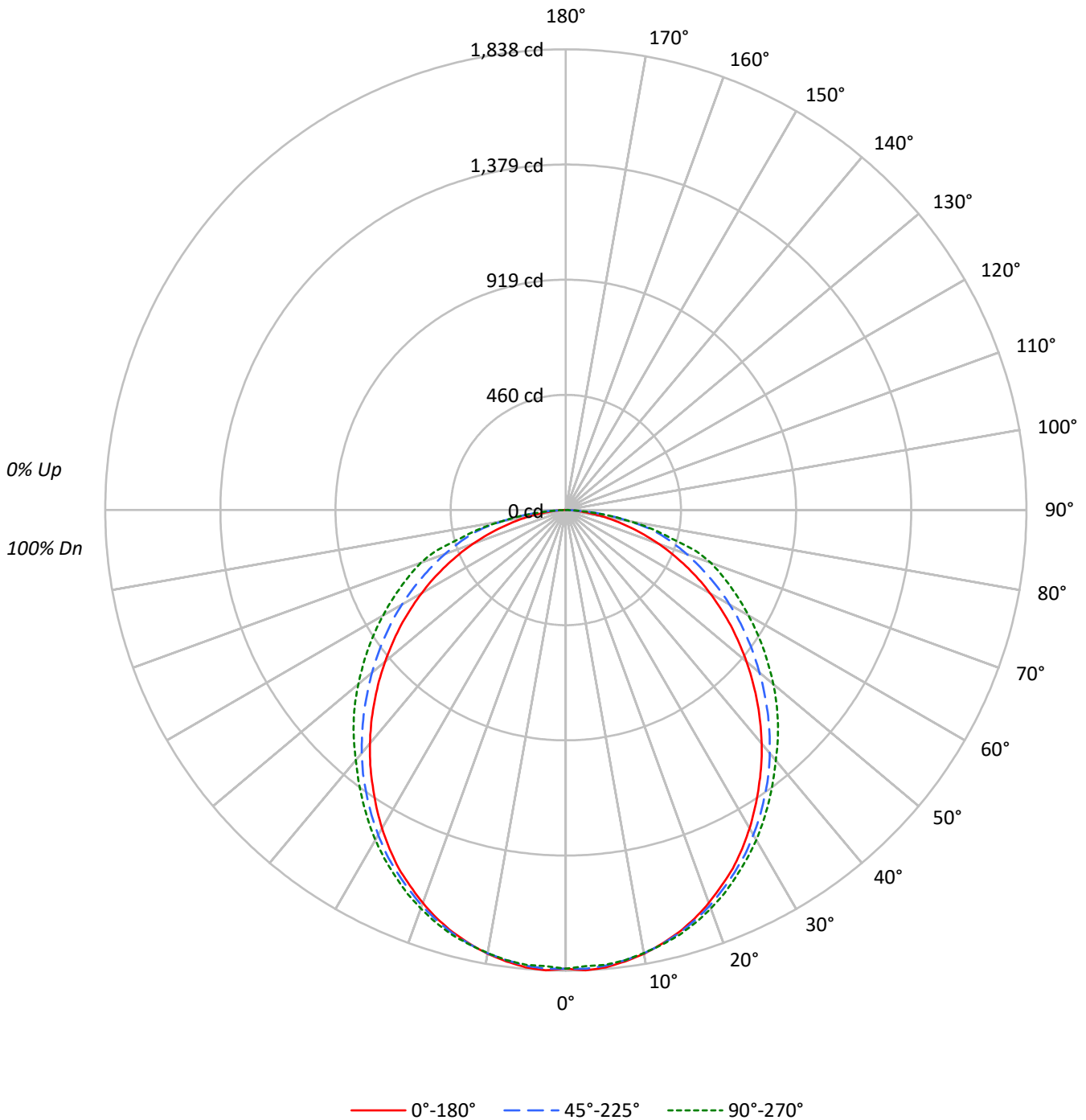
Lumens per Lamp: N/A
Luminaire Lumens: 5054.5 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	100	100	100	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38	38	38	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30	30	30	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2462	2462	2462
5°	2474	2464	2460
10°	2456	2454	2452
15°	2429	2434	2444
20°	2389	2405	2423
25°	2342	2367	2392
30°	2279	2325	2362
35°	2207	2276	2323
40°	2136	2224	2289
45°	2054	2167	2279
50°	1971	2112	2263
55°	1886	2067	2257
60°	1788	2032	2267
65°	1681	2008	2313
70°	1548	2018	2422
75°	1372	2089	2255
80°	1148	1981	2033
85°	855	1584	1454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2438 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	3.4
10°-20°	492.0	9.7
20°-30°	733.2	14.5
30°-40°	863.1	17.1
40°-50°	877.1	17.4
50°-60°	788.6	15.6
60°-70°	623.0	12.3
70°-80°	395.2	7.8
80°-90°	109.1	2.2
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°	1398.3	27.7
0°-40°	2261.4	44.7
0°-60°	3927.1	77.7
0°-90°	5054.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5054.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1832	1816	1825	1821	1821	174
15°	1744	1736	1748	1752	1754	491
25°	1578	1576	1594	1605	1611	725
35°	1344	1352	1386	1401	1414	841
45°	1080	1095	1139	1172	1198	833
55°	804	824	881	938	962	718
65°	528	555	631	700	726	523
75°	264	309	402	437	434	281
85°	55	96	103	94	94	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.8	1829.8	1829.8	1829.8	1829.8
2.5°	1838.2	1824.6	1831.5	1828.1	1821.4
5°	1831.5	1816.4	1824.6	1821.4	1821.4
7.5°	1816.4	1804.5	1811.2	1809.6	1811.2
10°	1797.8	1786.1	1796.2	1796.2	1794.5
12.5°	1772.6	1762.5	1774.3	1774.3	1775.9
15°	1744.0	1735.8	1747.5	1752.3	1754.2
17.5°	1708.7	1700.3	1715.5	1720.4	1725.6
20°	1668.3	1665.0	1680.0	1685.1	1691.9
22.5°	1623.0	1623.0	1638.0	1644.7	1654.8
25°	1577.5	1575.8	1594.4	1604.6	1611.3
27.5°	1523.6	1525.5	1548.9	1559.1	1567.5
30°	1466.6	1469.9	1496.8	1508.6	1520.4
32.5°	1406.0	1412.7	1443.0	1456.5	1468.2
35°	1343.7	1352.3	1385.7	1401.0	1414.4
37.5°	1281.5	1293.4	1328.7	1343.7	1359.0
40°	1215.9	1226.1	1266.4	1284.8	1303.4
42.5°	1148.7	1162.2	1202.5	1229.3	1251.4
45°	1079.7	1094.8	1138.6	1172.3	1197.5
47.5°	1010.8	1031.0	1073.0	1118.4	1140.3
50°	941.8	962.1	1009.1	1059.5	1081.2
52.5°	871.2	891.5	945.2	997.2	1020.8
55°	803.8	824.1	881.3	938.5	962.1
57.5°	733.2	755.1	819.2	877.9	901.3
60°	664.3	686.0	755.1	817.3	842.6
62.5°	597.2	620.6	692.9	758.5	783.7
65°	528.1	555.0	630.6	699.6	726.5
67.5°	460.8	491.1	570.2	642.5	671.1
70°	393.6	428.9	513.0	587.0	615.6
72.5°	328.0	366.6	455.8	529.7	544.8
75°	264.0	309.4	401.9	437.2	433.8
77.5°	203.5	253.8	341.5	348.2	358.2
80°	148.1	203.5	255.7	269.1	262.4
82.5°	97.5	153.1	183.4	176.5	175.0
85°	55.4	95.9	102.6	94.2	94.2
87.5°	23.6	38.6	33.8	25.1	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)