

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: P798090

Luminaire Tested: 24CZSB-SCT3-HRP-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345038)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-HRP-UNV-HIGH-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

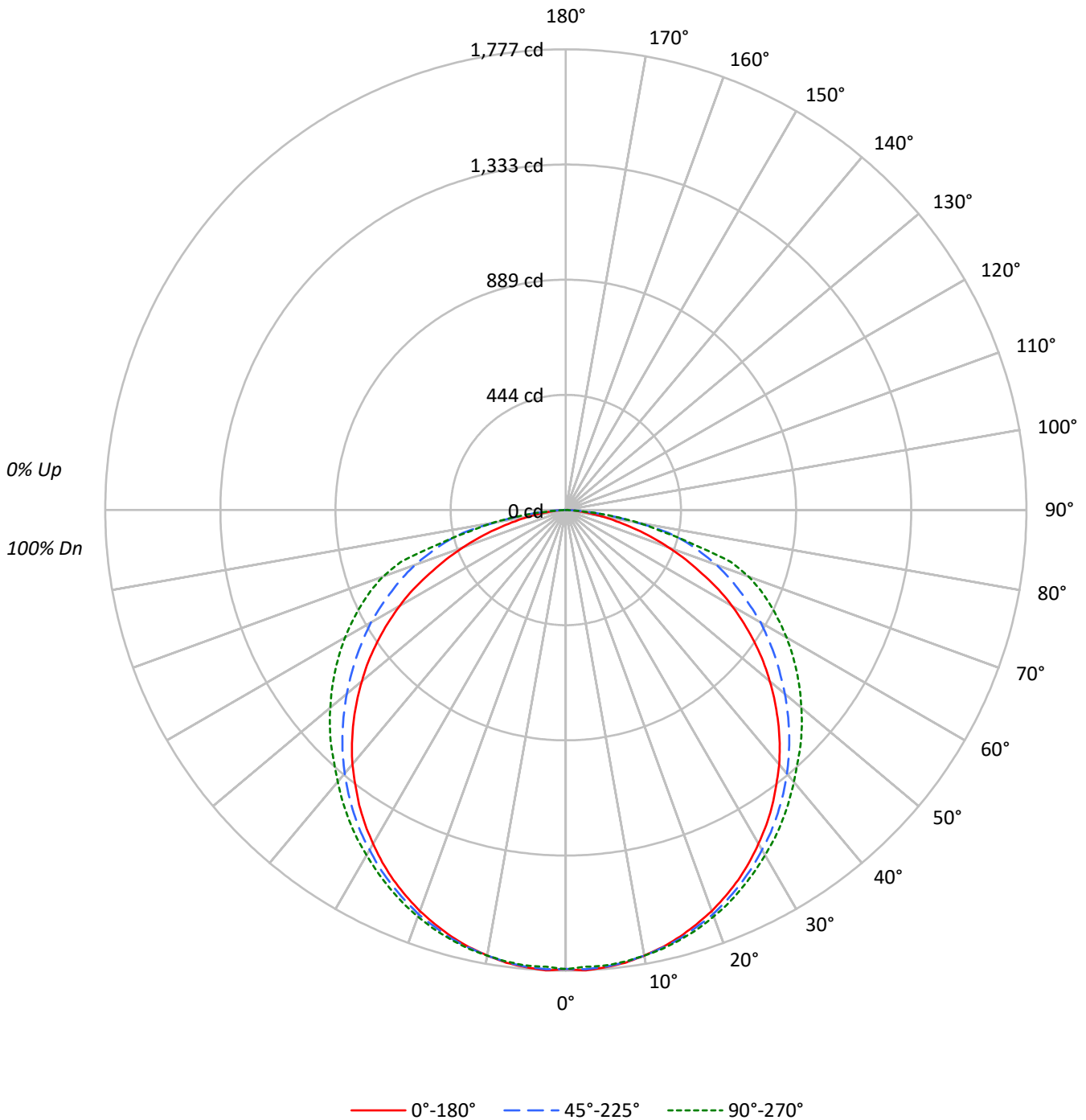
Lumens per Lamp: N/A
Luminaire Lumens: 5388.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	30	30	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2382	2382	2382
5°	2391	2388	2382
10°	2384	2384	2384
15°	2373	2382	2389
20°	2357	2376	2389
25°	2337	2364	2388
30°	2309	2352	2388
35°	2282	2343	2396
40°	2250	2331	2404
45°	2205	2319	2438
50°	2150	2310	2483
55°	2085	2312	2550
60°	1994	2335	2646
65°	1844	2359	2778
70°	1662	2434	2951
75°	1404	2508	2640
80°	1092	2147	2218
85°	786	1462	1281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2985 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.1
10°-20°	481.9	8.9
20°-30°	732.8	13.6
30°-40°	890.3	16.5
40°-50°	939.7	17.4
50°-60°	883.0	16.4
60°-70°	726.9	13.5
70°-80°	458.0	8.5
80°-90°	108.1	2.0
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°	1382.5	25.7
0°-40°	2272.8	42.2
0°-60°	4095.4	76.0
0°-90°	5388.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5388.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1770	1761	1768	1766	1764	168
15°	1704	1696	1710	1715	1715	481
25°	1574	1572	1593	1602	1609	725
35°	1390	1396	1426	1445	1459	869
45°	1159	1177	1219	1253	1281	893
55°	889	921	986	1055	1087	793
65°	579	635	741	836	872	575
75°	270	353	482	526	508	288
85°	51	85	95	88	83	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.3	1770.3	1770.3	1770.3	1770.3
2.5°	1777.4	1765.9	1772.7	1770.3	1763.5
5°	1770.3	1761.2	1768.0	1765.9	1763.5
7.5°	1761.2	1752.0	1758.9	1756.5	1756.5
10°	1745.0	1738.0	1745.0	1745.0	1745.0
12.5°	1726.5	1719.7	1728.9	1731.2	1733.5
15°	1703.5	1696.5	1710.3	1715.0	1715.0
17.5°	1675.9	1671.2	1685.0	1689.7	1694.2
20°	1645.9	1643.5	1659.7	1664.2	1668.8
22.5°	1611.2	1611.2	1627.3	1631.8	1641.2
25°	1574.1	1571.8	1592.7	1601.8	1608.8
27.5°	1532.6	1532.6	1555.8	1567.3	1574.1
30°	1486.5	1491.1	1514.1	1528.0	1537.3
32.5°	1440.3	1445.0	1472.6	1488.8	1500.3
35°	1389.6	1396.4	1426.5	1445.0	1458.8
37.5°	1334.1	1345.8	1377.9	1398.8	1415.0
40°	1281.1	1290.3	1327.3	1350.3	1368.8
42.5°	1221.1	1237.3	1274.1	1301.7	1322.6
45°	1158.7	1177.3	1218.8	1253.4	1281.1
47.5°	1094.0	1117.2	1161.1	1207.3	1234.9
50°	1027.2	1052.5	1103.4	1158.7	1186.4
52.5°	960.2	987.9	1043.4	1107.9	1137.9
55°	888.7	921.0	985.5	1054.9	1087.2
57.5°	814.8	851.7	925.5	1004.0	1036.4
60°	741.0	780.2	867.8	946.4	983.4
62.5°	664.8	708.7	803.3	893.4	927.8
65°	579.3	634.8	741.0	835.5	872.5
67.5°	500.9	558.6	681.0	775.5	814.8
70°	422.4	489.2	618.6	713.3	750.1
72.5°	343.9	422.4	549.3	646.3	667.2
75°	270.1	353.3	482.4	526.3	507.8
77.5°	198.5	290.9	406.3	383.3	378.6
80°	140.9	230.9	277.1	279.2	286.2
82.5°	90.0	170.9	180.0	182.4	184.7
85°	50.9	85.3	94.7	87.7	83.0
87.5°	23.0	27.7	23.0	16.2	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)