

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: P798096

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798096
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-MID-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

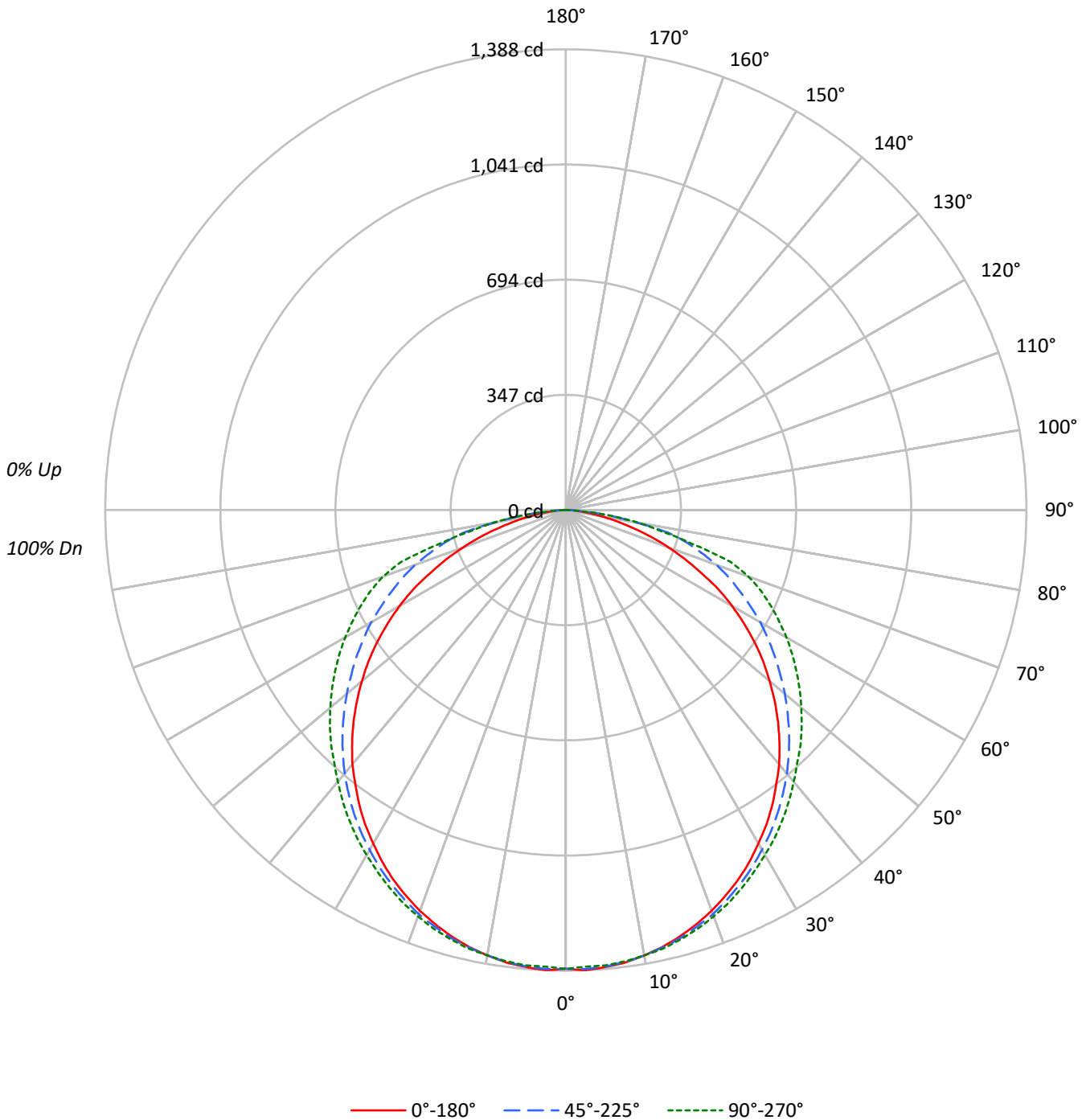
Lumens per Lamp: N/A
Luminaire Lumens: 4206.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1860	1860	1860
5°	1867	1864	1860
10°	1861	1861	1861
15°	1853	1860	1865
20°	1840	1855	1866
25°	1825	1846	1865
30°	1803	1837	1865
35°	1782	1829	1871
40°	1757	1820	1877
45°	1721	1811	1903
50°	1679	1803	1939
55°	1628	1805	1991
60°	1557	1823	2066
65°	1440	1842	2169
70°	1297	1900	2304
75°	1096	1958	2061
80°	852	1676	1732
85°	613	1141	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.1
10°-20°	376.2	8.9
20°-30°	572.1	13.6
30°-40°	695.1	16.5
40°-50°	733.6	17.4
50°-60°	689.3	16.4
60°-70°	567.5	13.5
70°-80°	357.5	8.5
80°-90°	84.4	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°	1079.3	25.7
0°-40°	1774.4	42.2
0°-60°	3197.4	76.0
0°-90°	4206.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1382	1375	1380	1379	1377	131
15°	1330	1324	1335	1339	1339	375
25°	1229	1227	1243	1251	1256	566
35°	1085	1090	1114	1128	1139	678
45°	905	919	952	979	1000	697
55°	694	719	769	824	849	619
65°	452	496	578	652	681	449
75°	211	276	377	411	396	225
85°	40	67	74	68	65	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.1	1382.1	1382.1	1382.1	1382.1
2.5°	1387.6	1378.7	1384.0	1382.1	1376.8
5°	1382.1	1375.0	1380.3	1378.7	1376.8
7.5°	1375.0	1367.9	1373.2	1371.3	1371.3
10°	1362.4	1356.9	1362.4	1362.4	1362.4
12.5°	1347.9	1342.6	1349.7	1351.6	1353.4
15°	1330.0	1324.5	1335.3	1338.9	1338.9
17.5°	1308.4	1304.7	1315.5	1319.2	1322.7
20°	1285.0	1283.1	1295.7	1299.2	1302.9
22.5°	1257.9	1257.9	1270.5	1274.0	1281.3
25°	1229.0	1227.1	1243.4	1250.6	1256.0
27.5°	1196.6	1196.6	1214.7	1223.6	1229.0
30°	1160.5	1164.2	1182.1	1192.9	1200.2
32.5°	1124.5	1128.1	1149.7	1162.3	1171.3
35°	1084.9	1090.2	1113.7	1128.1	1138.9
37.5°	1041.6	1050.7	1075.8	1092.1	1104.7
40°	1000.2	1007.3	1036.2	1054.2	1068.6
42.5°	953.3	966.0	994.7	1016.3	1032.6
45°	904.6	919.1	951.5	978.6	1000.2
47.5°	854.1	872.3	906.5	942.5	964.1
50°	802.0	821.7	861.5	904.6	926.2
52.5°	749.6	771.2	814.6	864.9	888.4
55°	693.8	719.1	769.4	823.6	848.8
57.5°	636.2	664.9	722.6	783.9	809.1
60°	578.5	609.1	677.5	738.8	767.7
62.5°	519.0	553.3	627.2	697.5	724.4
65°	452.2	495.6	578.5	652.3	681.2
67.5°	391.1	436.1	531.7	605.4	636.2
70°	329.8	382.0	483.0	556.9	585.7
72.5°	268.5	329.8	428.8	504.6	520.9
75°	210.8	275.8	376.6	410.9	396.4
77.5°	155.0	227.1	317.2	299.2	295.6
80°	110.0	180.3	216.3	218.0	223.5
82.5°	70.3	133.4	140.6	142.4	144.2
85°	39.7	66.6	73.9	68.5	64.8
87.5°	17.9	21.6	17.9	12.6	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)