

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: P798376

Luminaire Tested: 22CZSB-SCT3-S-UNV-HIGH-4000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-S-UNV-HIGH-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

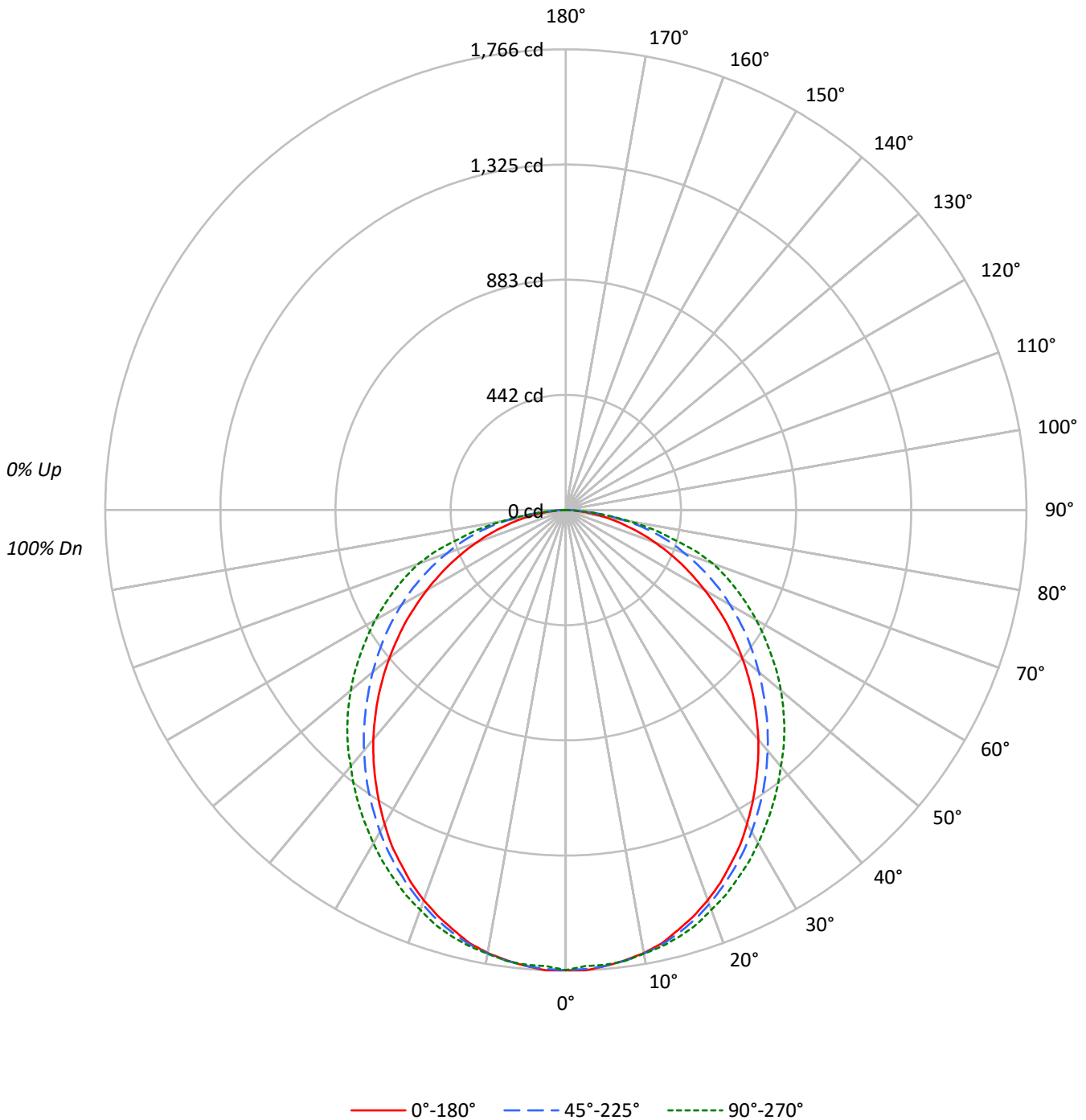
Lumens per Lamp: N/A
Luminaire Lumens: 4837.8 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.3
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	85	85	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	60	60	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4746	4746	4746
5°	4739	4739	4726
10°	4711	4718	4718
15°	4642	4673	4712
20°	4558	4605	4672
25°	4444	4519	4629
30°	4318	4427	4584
35°	4175	4328	4542
40°	4033	4229	4506
45°	3873	4130	4510
50°	3697	4047	4505
55°	3521	3978	4502
60°	3315	3915	4540
65°	3108	3862	4602
70°	2869	3820	4717
75°	2587	3792	4372
80°	2269	3526	3814
85°	1865	2655	2365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 4717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.4
10°-20°	473.1	9.8
20°-30°	702.7	14.5
30°-40°	827.2	17.1
40°-50°	843.3	17.4
50°-60°	760.5	15.7
60°-70°	599.0	12.4
70°-80°	369.5	7.6
80°-90°	95.9	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°	1342.3	27.7
0°-40°	2169.5	44.8
0°-60°	3773.3	78.0
0°-90°	4837.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4837.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1754	1757	1754	1752	1750	167
15°	1666	1673	1678	1687	1692	470
25°	1497	1506	1522	1548	1559	690
35°	1271	1285	1318	1359	1383	795
45°	1018	1034	1085	1150	1185	785
55°	750	776	848	925	960	670
65°	488	523	606	683	723	483
75°	249	291	365	406	420	265
85°	60	77	86	81	77	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1765.9	1765.9	1761.3	1756.7	1749.7
5°	1754.5	1756.7	1754.5	1751.9	1749.7
7.5°	1740.5	1742.7	1742.7	1742.7	1742.7
10°	1724.1	1726.5	1726.5	1726.5	1726.5
12.5°	1700.9	1703.3	1705.5	1707.9	1712.5
15°	1666.1	1672.9	1677.5	1686.9	1691.5
17.5°	1631.4	1638.1	1645.4	1656.7	1666.1
20°	1591.7	1596.3	1608.2	1621.9	1631.4
22.5°	1547.5	1554.5	1566.1	1584.7	1598.7
25°	1496.6	1505.8	1521.9	1547.5	1559.1
27.5°	1447.8	1454.5	1475.3	1503.3	1519.8
30°	1389.6	1398.7	1424.6	1459.1	1475.3
32.5°	1331.6	1343.0	1371.0	1410.6	1429.2
35°	1271.0	1285.0	1317.6	1359.4	1382.6
37.5°	1210.6	1224.6	1261.8	1308.2	1333.8
40°	1148.0	1161.8	1203.8	1254.8	1282.6
42.5°	1082.8	1099.0	1145.4	1203.8	1236.2
45°	1017.6	1034.0	1085.2	1150.2	1185.2
47.5°	950.5	969.1	1024.8	1096.8	1131.6
50°	883.1	903.8	966.6	1041.0	1076.1
52.5°	815.4	838.9	906.3	983.1	1020.3
55°	750.5	776.1	848.0	924.6	959.6
57.5°	680.9	711.1	787.7	862.1	901.7
60°	615.9	648.3	727.5	801.7	843.5
62.5°	550.7	585.5	669.1	743.7	783.1
65°	488.1	522.7	606.5	683.1	722.7
67.5°	425.1	464.7	546.1	622.7	662.3
70°	364.7	406.5	485.5	560.1	599.5
72.5°	306.8	348.5	427.5	497.3	520.5
75°	248.8	290.6	364.7	406.5	420.5
77.5°	195.2	234.8	299.7	325.4	344.0
80°	146.4	181.2	227.5	244.0	246.1
82.5°	99.8	130.2	158.2	160.4	158.2
85°	60.4	76.6	86.0	81.2	76.6
87.5°	28.0	30.2	28.0	18.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)