

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: P798099

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798099
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-HIGH-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

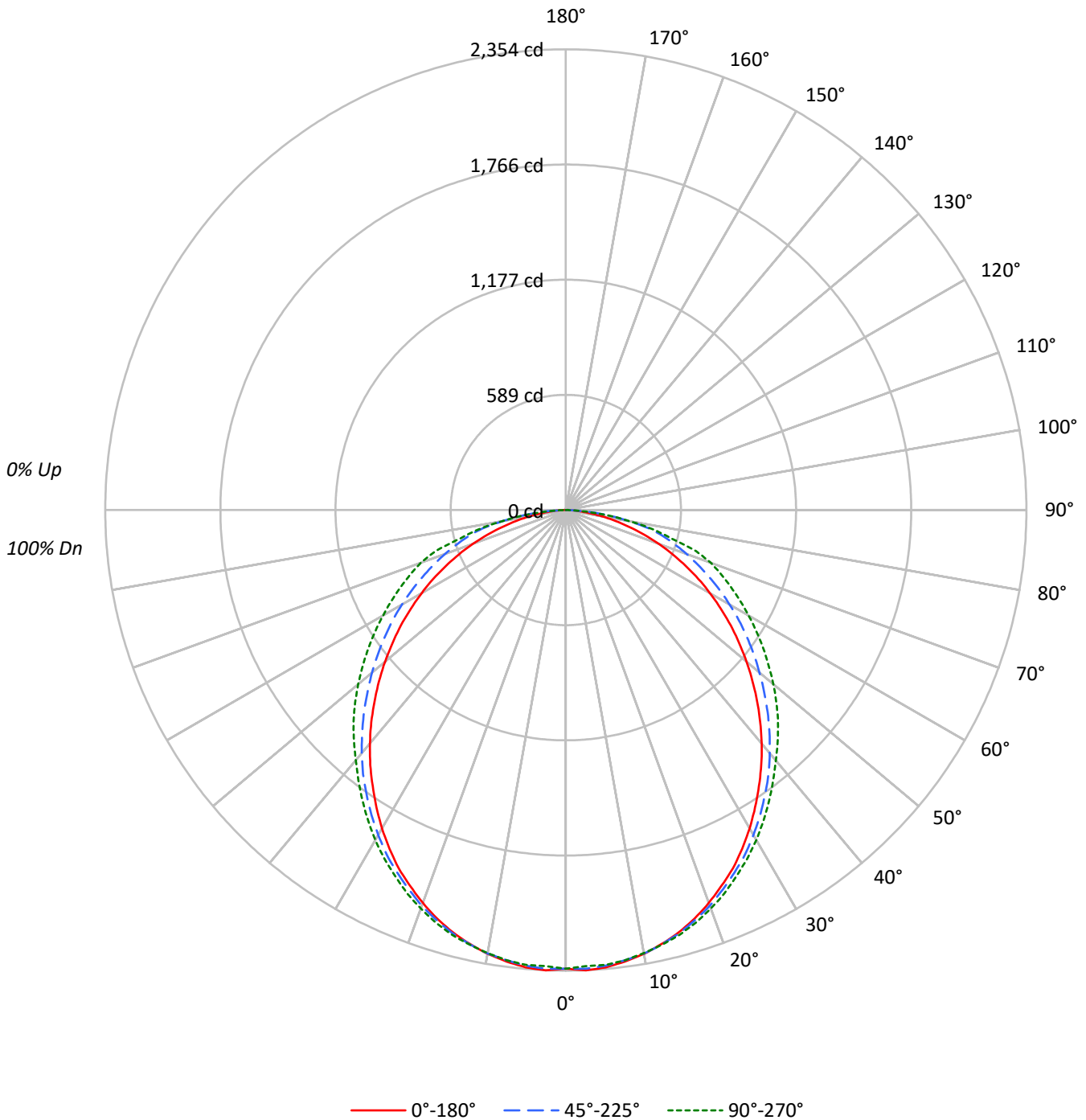
Lumens per Lamp: N/A
Luminaire Lumens: 6474.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3153	3153	3153
5°	3168	3157	3151
10°	3146	3143	3140
15°	3112	3118	3130
20°	3060	3081	3103
25°	3000	3032	3064
30°	2919	2979	3026
35°	2827	2915	2976
40°	2735	2849	2932
45°	2631	2775	2919
50°	2525	2705	2899
55°	2415	2648	2891
60°	2290	2603	2904
65°	2154	2571	2963
70°	1983	2585	3102
75°	1758	2676	2888
80°	1470	2538	2604
85°	1096	2030	1862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	3.4
10°-20°	630.2	9.7
20°-30°	939.2	14.5
30°-40°	1105.6	17.1
40°-50°	1123.5	17.4
50°-60°	1010.1	15.6
60°-70°	798.0	12.3
70°-80°	506.3	7.8
80°-90°	139.7	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°	1791.0	27.7
0°-40°	2896.5	44.7
0°-60°	5030.1	77.7
0°-90°	6474.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6474.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2346	2326	2337	2333	2333	222
15°	2234	2223	2238	2244	2247	629
25°	2021	2018	2042	2055	2064	929
35°	1721	1732	1775	1794	1812	1077
45°	1383	1402	1458	1502	1534	1067
55°	1030	1056	1129	1202	1232	920
65°	676	711	808	896	931	670
75°	338	396	515	560	556	360
85°	71	123	132	121	121	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2343.7	2343.7	2343.7	2343.7	2343.7
2.5°	2354.5	2337.1	2345.9	2341.5	2332.9
5°	2345.9	2326.5	2337.1	2332.9	2332.9
7.5°	2326.5	2311.3	2319.9	2317.9	2319.9
10°	2302.7	2287.7	2300.7	2300.7	2298.5
12.5°	2270.5	2257.5	2272.7	2272.7	2274.7
15°	2233.9	2223.3	2238.3	2244.5	2246.9
17.5°	2188.7	2177.9	2197.3	2203.7	2210.3
20°	2136.8	2132.7	2151.8	2158.5	2167.1
22.5°	2078.8	2078.8	2098.0	2106.6	2119.6
25°	2020.6	2018.4	2042.2	2055.2	2063.8
27.5°	1951.6	1954.0	1984.0	1997.0	2007.8
30°	1878.6	1882.7	1917.2	1932.4	1947.4
32.5°	1800.9	1809.5	1848.3	1865.5	1880.5
35°	1721.1	1732.1	1774.9	1794.5	1811.7
37.5°	1641.5	1656.7	1701.9	1721.1	1740.7
40°	1557.4	1570.4	1622.0	1645.6	1669.5
42.5°	1471.4	1488.6	1540.2	1574.6	1602.9
45°	1382.9	1402.4	1458.4	1501.6	1533.8
47.5°	1294.7	1320.5	1374.3	1432.6	1460.6
50°	1206.3	1232.3	1292.5	1357.1	1384.9
52.5°	1115.8	1141.9	1210.7	1277.3	1307.5
55°	1029.6	1055.6	1128.9	1202.1	1232.3
57.5°	939.2	967.2	1049.2	1124.4	1154.4
60°	850.9	878.7	967.2	1046.8	1079.2
62.5°	764.9	794.9	887.6	971.6	1003.8
65°	676.5	710.9	807.7	896.2	930.6
67.5°	590.2	629.1	730.3	822.9	859.5
70°	504.2	549.4	657.1	751.9	788.5
72.5°	420.2	469.6	583.8	678.5	697.9
75°	338.1	396.4	514.8	560.0	555.6
77.5°	260.7	325.1	437.4	446.0	458.8
80°	189.7	260.7	327.5	344.7	336.1
82.5°	124.8	196.1	234.9	226.1	224.1
85°	71.0	122.9	131.5	120.6	120.6
87.5°	30.2	49.4	43.2	32.2	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)