

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: P798101

Luminaire Tested: 24CZSB-SCT3-S-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798101
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-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

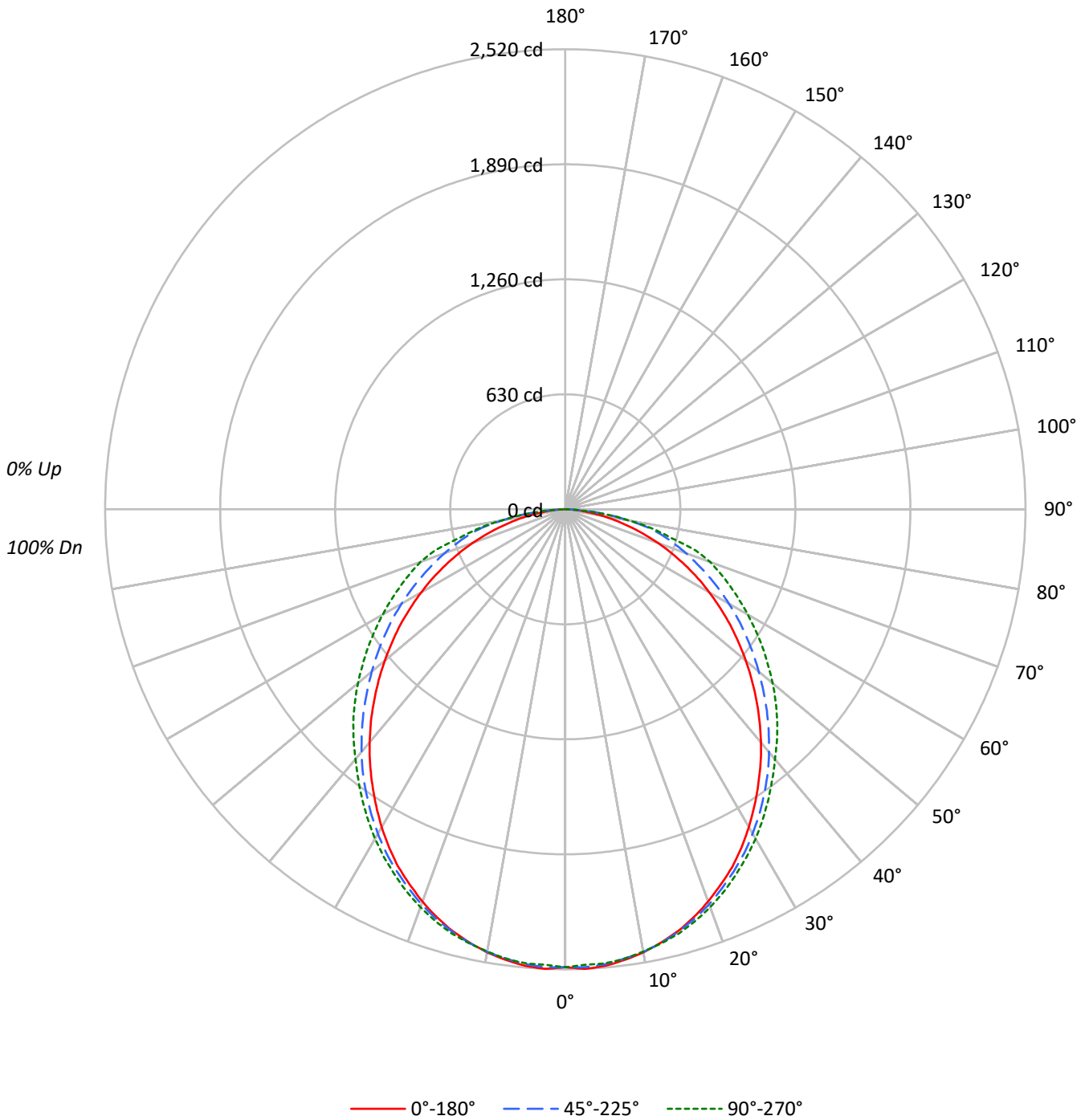
Lumens per Lamp: N/A
Luminaire Lumens: 6929.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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°	3375	3375	3375
5°	3391	3378	3372
10°	3367	3364	3361
15°	3330	3337	3350
20°	3275	3298	3321
25°	3211	3245	3279
30°	3124	3188	3238
35°	3026	3120	3185
40°	2928	3049	3138
45°	2816	2970	3124
50°	2702	2896	3103
55°	2585	2834	3094
60°	2451	2785	3108
65°	2305	2752	3171
70°	2123	2766	3320
75°	1881	2864	3091
80°	1573	2717	2788
85°	1173	2172	1993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3342 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	3.4
10°-20°	674.5	9.7
20°-30°	1005.2	14.5
30°-40°	1183.2	17.1
40°-50°	1202.4	17.4
50°-60°	1081.1	15.6
60°-70°	854.1	12.3
70°-80°	541.8	7.8
80°-90°	149.6	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°	1916.8	27.7
0°-40°	3100.1	44.7
0°-60°	5383.6	77.7
0°-90°	6929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2511	2490	2501	2497	2497	238
15°	2391	2380	2396	2402	2405	673
25°	2163	2160	2186	2200	2209	994
35°	1842	1854	1900	1921	1939	1152
45°	1480	1501	1561	1607	1642	1142
55°	1102	1130	1208	1286	1319	984
65°	724	761	864	959	996	717
75°	362	424	551	599	595	385
85°	76	132	141	129	129	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2508.4	2508.4	2508.4	2508.4	2508.4
2.5°	2520.0	2501.3	2510.8	2506.0	2496.8
5°	2510.8	2490.0	2501.3	2496.8	2496.8
7.5°	2490.0	2473.7	2482.9	2480.8	2482.9
10°	2464.5	2448.4	2462.4	2462.4	2460.0
12.5°	2430.0	2416.1	2432.4	2432.4	2434.5
15°	2390.8	2379.5	2395.6	2402.2	2404.8
17.5°	2342.4	2330.9	2351.7	2358.5	2365.6
20°	2287.0	2282.5	2303.0	2310.1	2319.3
22.5°	2224.9	2224.9	2245.4	2254.6	2268.6
25°	2162.6	2160.2	2185.7	2199.6	2208.8
27.5°	2088.7	2091.3	2123.4	2137.3	2148.9
30°	2010.5	2015.0	2051.9	2068.1	2084.2
32.5°	1927.4	1936.7	1978.2	1996.6	2012.7
35°	1842.0	1853.8	1899.6	1920.6	1939.0
37.5°	1756.8	1773.1	1821.5	1842.0	1863.0
40°	1666.8	1680.8	1736.0	1761.3	1786.8
42.5°	1574.8	1593.2	1648.4	1685.2	1715.5
45°	1480.1	1500.9	1560.8	1607.1	1641.6
47.5°	1385.7	1413.3	1470.9	1533.2	1563.2
50°	1291.0	1318.9	1383.3	1452.5	1482.2
52.5°	1194.2	1222.1	1295.7	1367.0	1399.4
55°	1101.9	1129.8	1208.2	1286.5	1318.9
57.5°	1005.2	1035.1	1122.9	1203.4	1235.6
60°	910.7	940.5	1035.1	1120.4	1155.1
62.5°	818.7	850.8	949.9	1039.9	1074.3
65°	724.0	760.8	864.5	959.1	995.9
67.5°	631.7	673.2	781.6	880.7	919.9
70°	539.6	588.0	703.2	804.7	843.9
72.5°	449.7	502.6	624.9	726.1	746.9
75°	361.9	424.2	551.0	599.4	594.6
77.5°	279.0	348.0	468.1	477.3	491.0
80°	203.0	279.0	350.6	369.0	359.8
82.5°	133.6	209.9	251.4	242.0	239.8
85°	76.0	131.5	140.7	129.1	129.1
87.5°	32.3	52.9	46.3	34.5	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)