

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: P798100

Luminaire Tested: 24CZSB-SCT3-S-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798100
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-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

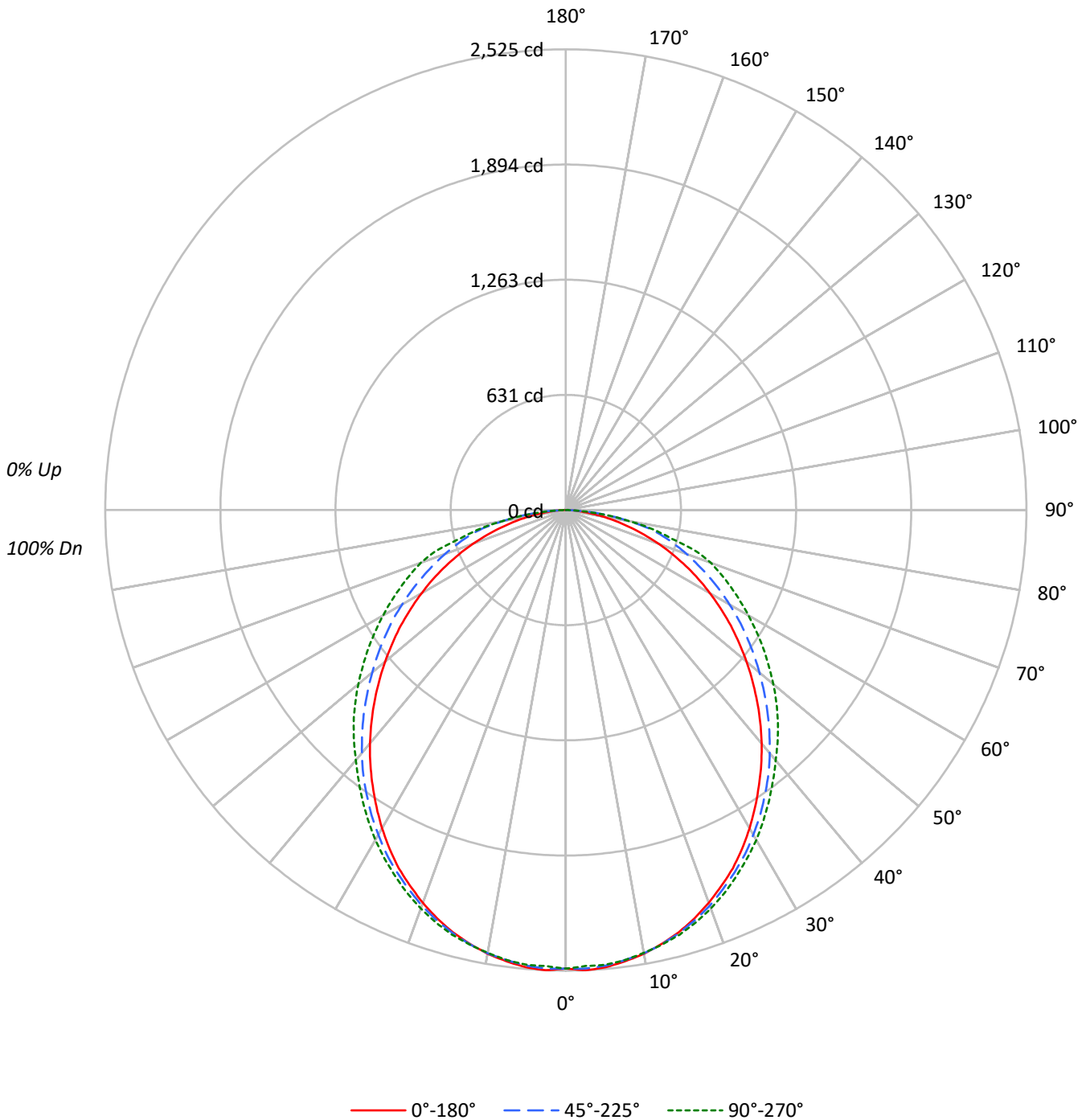
Lumens per Lamp: N/A
Luminaire Lumens: 6942.3 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.5
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°	3381	3381	3381
5°	3398	3385	3379
10°	3374	3371	3367
15°	3337	3343	3356
20°	3281	3304	3327
25°	3217	3251	3286
30°	3130	3194	3244
35°	3031	3126	3191
40°	2933	3055	3144
45°	2822	2976	3130
50°	2708	2901	3109
55°	2590	2840	3100
60°	2456	2791	3114
65°	2309	2757	3177
70°	2127	2772	3326
75°	1885	2870	3097
80°	1576	2721	2793
85°	1176	2177	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3348 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	3.4
10°-20°	675.8	9.7
20°-30°	1007.1	14.5
30°-40°	1185.5	17.1
40°-50°	1204.7	17.4
50°-60°	1083.1	15.6
60°-70°	855.7	12.3
70°-80°	542.9	7.8
80°-90°	149.9	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°	1920.5	27.7
0°-40°	3106.0	44.7
0°-60°	5393.9	77.7
0°-90°	6942.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6942.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2513	2513	2513	2513	2513	
5°	2516	2495	2506	2502	2502	239
15°	2395	2384	2400	2407	2409	675
25°	2167	2164	2190	2204	2213	996
35°	1846	1857	1903	1924	1943	1155
45°	1483	1504	1564	1610	1645	1144
55°	1104	1132	1210	1289	1321	986
65°	725	762	866	961	998	719
75°	363	425	552	600	596	386
85°	76	132	141	129	129	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2513.2	2513.2	2513.2	2513.2	2513.2
2.5°	2524.8	2506.1	2515.6	2510.8	2501.6
5°	2515.6	2494.8	2506.1	2501.6	2501.6
7.5°	2494.8	2478.4	2487.7	2485.5	2487.7
10°	2469.2	2453.1	2467.1	2467.1	2464.7
12.5°	2434.7	2420.7	2437.0	2437.0	2439.2
15°	2395.4	2384.1	2400.1	2406.8	2409.4
17.5°	2346.9	2335.3	2356.2	2363.0	2370.1
20°	2291.3	2286.9	2307.4	2314.5	2323.8
22.5°	2229.1	2229.1	2249.7	2258.9	2272.9
25°	2166.7	2164.3	2189.9	2203.8	2213.1
27.5°	2092.7	2095.3	2127.4	2141.4	2153.0
30°	2014.4	2018.9	2055.8	2072.1	2088.2
32.5°	1931.1	1940.4	1982.0	2000.4	2016.5
35°	1845.5	1857.3	1903.2	1924.3	1942.7
37.5°	1760.1	1776.5	1824.9	1845.5	1866.6
40°	1670.0	1684.0	1739.3	1764.6	1790.2
42.5°	1577.8	1596.2	1651.6	1688.5	1718.7
45°	1482.9	1503.8	1563.8	1610.2	1644.7
47.5°	1388.3	1416.0	1473.7	1536.2	1566.2
50°	1293.5	1321.4	1386.0	1455.3	1485.1
52.5°	1196.5	1224.4	1298.2	1369.7	1402.1
55°	1104.0	1132.0	1210.5	1289.0	1321.4
57.5°	1007.1	1037.1	1125.1	1205.7	1237.9
60°	912.5	942.3	1037.1	1122.5	1157.3
62.5°	820.2	852.4	951.7	1041.8	1076.4
65°	725.4	762.3	866.1	961.0	997.9
67.5°	632.9	674.5	783.1	882.4	921.7
70°	540.7	589.2	704.6	806.3	845.5
72.5°	450.6	503.5	626.1	727.5	748.3
75°	362.6	425.0	552.0	600.5	595.8
77.5°	279.6	348.6	469.0	478.2	491.9
80°	203.4	279.6	351.2	369.7	360.4
82.5°	133.9	210.3	251.9	242.4	240.3
85°	76.2	131.7	141.0	129.4	129.4
87.5°	32.4	53.0	46.4	34.5	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)