

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: P798083

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-UNV-HIGH-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

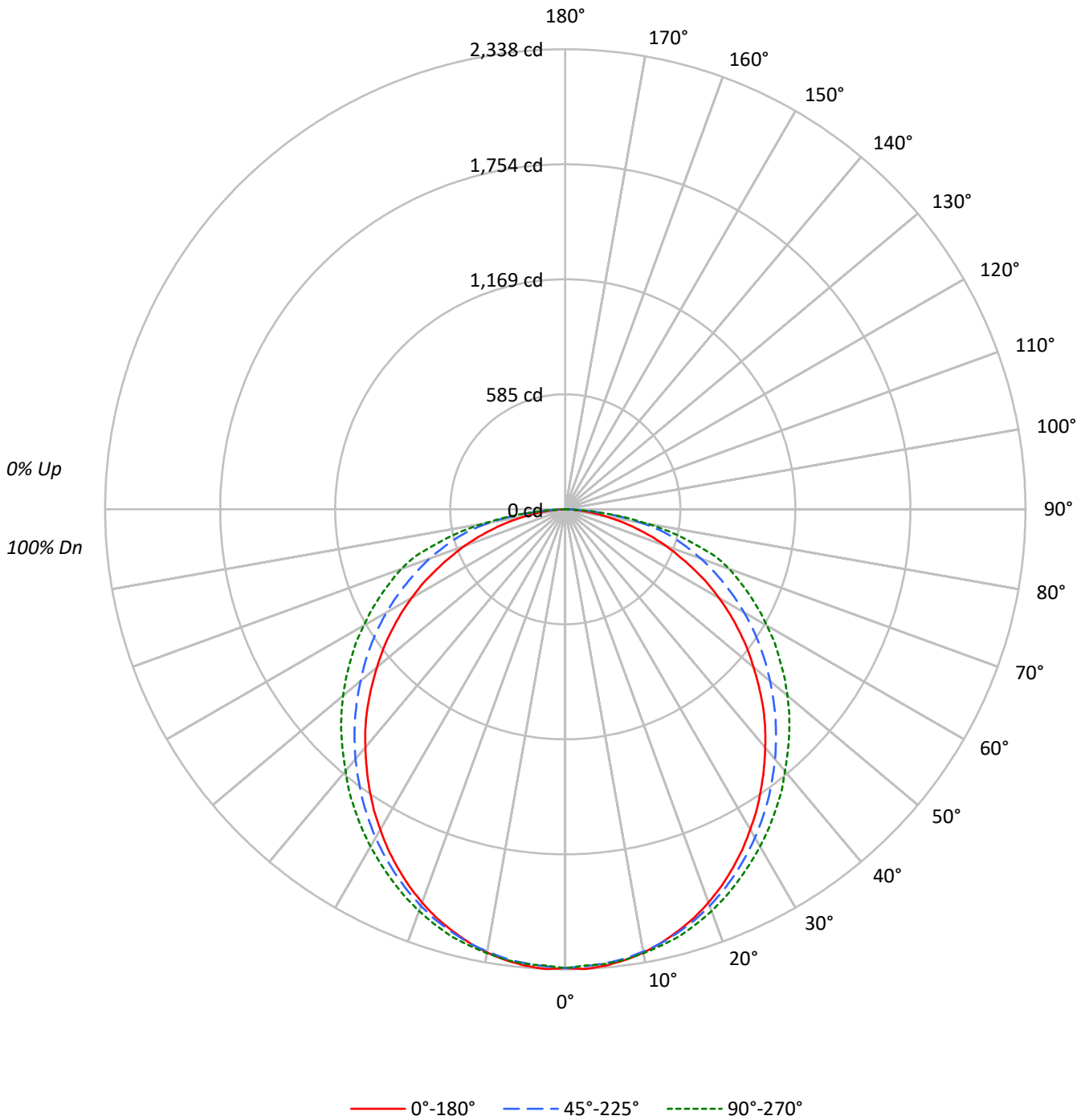
Lumens per Lamp: N/A
Luminaire Lumens: 6794.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	103	99	94	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	51	51	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3137	3137	3137
5°	3145	3129	3133
10°	3125	3119	3129
15°	3089	3099	3128
20°	3045	3072	3111
25°	2987	3034	3091
30°	2920	2994	3075
35°	2849	2952	3062
40°	2775	2912	3050
45°	2704	2875	3063
50°	2614	2841	3084
55°	2531	2828	3118
60°	2425	2823	3183
65°	2291	2828	3292
70°	2144	2886	3491
75°	1930	3004	3523
80°	1632	3000	3295
85°	1263	2435	2419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	3.2
10°-20°	628.7	9.3
20°-30°	942.8	13.9
30°-40°	1126.3	16.6
40°-50°	1169.0	17.2
50°-60°	1079.6	15.9
60°-70°	877.3	12.9
70°-80°	580.5	8.5
80°-90°	169.4	2.5
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°	1792.0	26.4
0°-40°	2918.2	43.0
0°-60°	5166.8	76.0
0°-90°	6794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2328	2322	2316	2322	2320	221
15°	2218	2216	2225	2246	2246	625
25°	2012	2019	2044	2075	2082	927
35°	1735	1757	1798	1846	1864	1085
45°	1421	1448	1511	1585	1610	1095
55°	1079	1117	1206	1300	1329	964
65°	720	776	888	998	1034	714
75°	371	448	578	664	678	394
85°	82	142	158	157	157	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2331.5	2331.5	2331.5	2331.5	2331.5
2.5°	2338.5	2332.5	2324.5	2331.5	2320.5
5°	2328.5	2322.5	2316.5	2322.5	2319.5
7.5°	2311.5	2306.5	2303.5	2311.5	2309.5
10°	2287.6	2281.6	2282.6	2293.5	2290.5
12.5°	2256.6	2253.6	2257.6	2270.6	2269.6
15°	2217.7	2215.7	2224.7	2245.6	2245.6
17.5°	2176.8	2174.8	2188.7	2209.7	2210.7
20°	2126.9	2128.9	2145.8	2166.8	2172.8
22.5°	2073.0	2076.0	2096.9	2120.9	2129.9
25°	2012.1	2019.1	2044.0	2075.0	2082.0
27.5°	1949.2	1958.2	1987.1	2022.1	2031.1
30°	1879.3	1891.3	1927.3	1967.2	1979.2
32.5°	1810.5	1828.4	1863.4	1908.3	1923.3
35°	1734.6	1756.6	1797.5	1846.4	1864.4
37.5°	1657.8	1682.7	1727.6	1783.5	1804.5
40°	1579.9	1606.9	1657.8	1716.7	1736.6
42.5°	1503.1	1530.0	1584.9	1650.8	1672.7
45°	1421.2	1448.2	1511.1	1584.9	1609.9
47.5°	1334.4	1368.3	1434.2	1518.1	1543.0
50°	1248.6	1285.5	1357.4	1445.2	1473.1
52.5°	1165.7	1201.7	1282.5	1374.3	1403.3
55°	1078.9	1116.8	1205.7	1300.5	1329.4
57.5°	991.1	1033.0	1127.8	1225.6	1260.6
60°	901.2	948.2	1049.0	1149.8	1182.7
62.5°	815.4	861.3	969.1	1073.9	1109.8
65°	719.6	776.5	888.3	998.1	1034.0
67.5°	628.8	691.7	810.4	923.2	959.1
70°	544.9	611.8	733.6	845.4	887.3
72.5°	456.1	528.0	653.7	766.5	802.4
75°	371.3	448.1	577.9	663.7	677.7
77.5°	289.4	370.3	495.0	549.9	562.9
80°	210.6	296.4	387.2	428.2	425.2
82.5°	140.7	224.6	278.5	289.4	291.4
85°	81.8	141.7	157.7	156.7	156.7
87.5°	34.9	57.9	50.9	45.9	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)