

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: P798091

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345038)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-HRP-UNV-HIGH-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

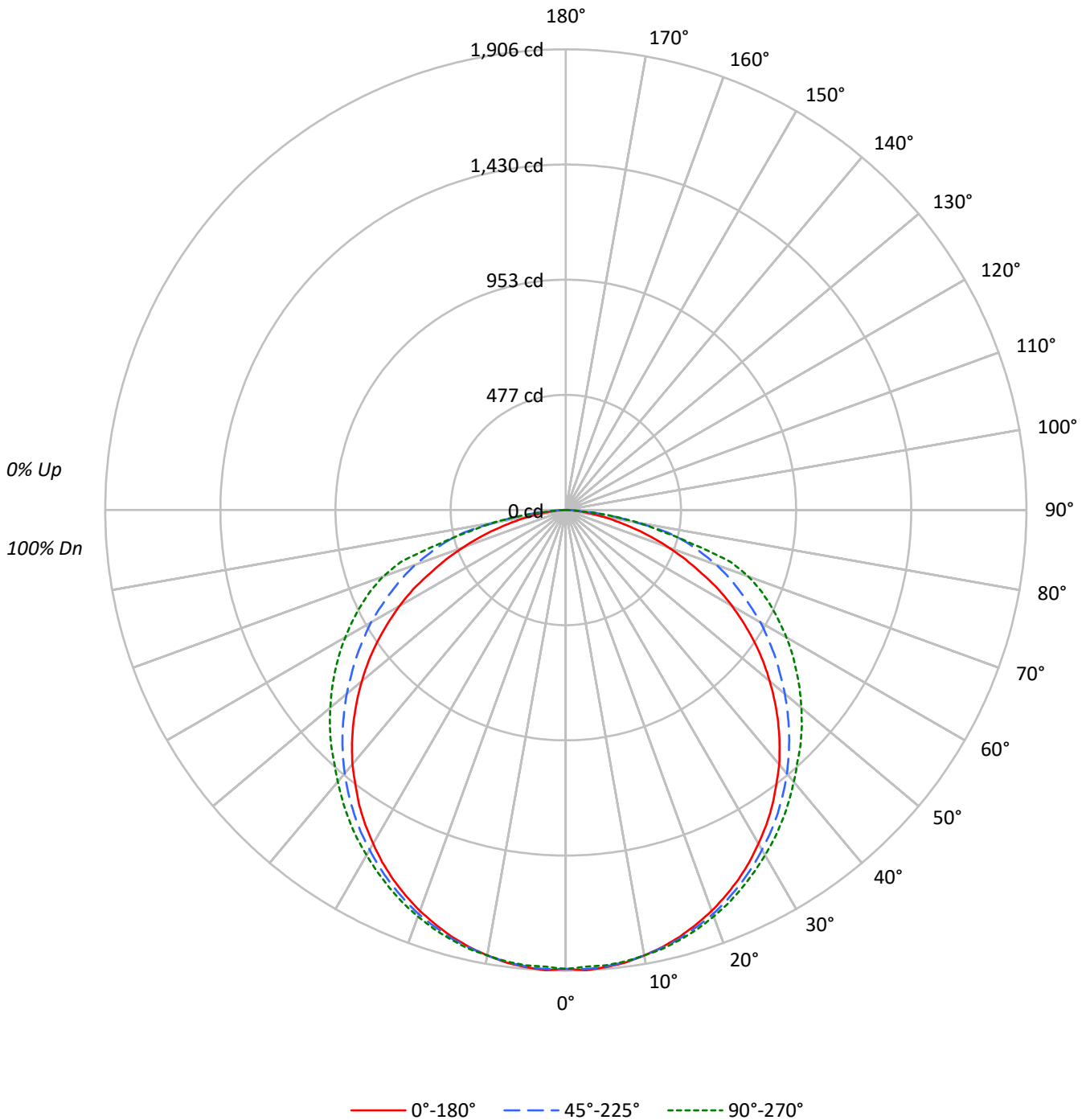
Lumens per Lamp: N/A
Luminaire Lumens: 5778.1 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	100	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68	68	68	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57	57	57	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48	48	48	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41	41	41	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36	36	36	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32	32	32	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28	28	28	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25	25	25	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2554	2554	2554
5°	2564	2561	2554
10°	2557	2557	2557
15°	2545	2555	2562
20°	2527	2548	2562
25°	2506	2535	2561
30°	2476	2522	2561
35°	2448	2512	2569
40°	2413	2500	2578
45°	2364	2487	2614
50°	2306	2477	2663
55°	2235	2479	2735
60°	2138	2504	2838
65°	1977	2530	2979
70°	1782	2610	3164
75°	1506	2689	2831
80°	1171	2302	2378
85°	841	1567	1374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	3.1
10°-20°	516.7	8.9
20°-30°	785.8	13.6
30°-40°	954.7	16.5
40°-50°	1007.6	17.4
50°-60°	946.8	16.4
60°-70°	779.5	13.5
70°-80°	491.1	8.5
80°-90°	115.9	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°	1482.4	25.7
0°-40°	2437.1	42.2
0°-60°	4391.6	76.0
0°-90°	5778.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1898	1888	1896	1894	1891	180
15°	1827	1819	1834	1839	1839	515
25°	1688	1685	1708	1718	1725	777
35°	1490	1497	1530	1549	1564	932
45°	1242	1262	1307	1344	1374	958
55°	953	988	1057	1131	1166	851
65°	621	681	795	896	936	617
75°	290	379	517	564	544	309
85°	54	92	102	94	89	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.4	1898.4	1898.4	1898.4	1898.4
2.5°	1905.9	1893.6	1900.9	1898.4	1891.1
5°	1898.4	1888.5	1895.8	1893.6	1891.1
7.5°	1888.5	1878.7	1886.0	1883.5	1883.5
10°	1871.2	1863.7	1871.2	1871.2	1871.2
12.5°	1851.3	1844.0	1853.9	1856.4	1858.9
15°	1826.7	1819.2	1834.0	1839.0	1839.0
17.5°	1797.0	1792.0	1806.8	1811.9	1816.7
20°	1764.9	1762.4	1779.7	1784.5	1789.5
22.5°	1727.7	1727.7	1745.0	1749.8	1759.8
25°	1688.0	1685.4	1707.8	1717.6	1725.2
27.5°	1643.5	1643.5	1668.3	1680.7	1688.0
30°	1593.9	1599.0	1623.6	1638.4	1648.5
32.5°	1544.4	1549.4	1579.1	1596.5	1608.8
35°	1490.1	1497.4	1529.6	1549.4	1564.3
37.5°	1430.6	1443.1	1477.6	1499.9	1517.3
40°	1373.7	1383.5	1423.3	1447.9	1467.8
42.5°	1309.4	1326.7	1366.2	1395.9	1418.2
45°	1242.5	1262.4	1306.9	1344.1	1373.7
47.5°	1173.2	1198.0	1245.0	1294.6	1324.2
50°	1101.5	1128.7	1183.2	1242.5	1272.2
52.5°	1029.6	1059.3	1118.8	1188.0	1220.2
55°	952.9	987.6	1056.8	1131.2	1165.8
57.5°	873.8	913.2	992.4	1076.6	1111.3
60°	794.6	836.6	930.6	1014.8	1054.5
62.5°	712.9	759.9	861.4	958.0	994.9
65°	621.1	680.7	794.6	895.9	935.6
67.5°	537.2	599.0	730.2	831.5	873.8
70°	453.0	524.6	663.4	764.9	804.4
72.5°	368.8	453.0	589.0	693.0	715.4
75°	289.6	378.8	517.3	564.3	544.5
77.5°	212.9	311.9	435.6	411.0	406.0
80°	151.1	247.6	297.1	299.4	306.9
82.5°	96.5	183.2	193.1	195.6	198.1
85°	54.5	91.5	101.5	94.0	89.0
87.5°	24.6	29.7	24.6	17.3	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)