

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: P798061

Luminaire Tested: 22CZSB-SCT3-HRP-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345110)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-HRP-UNV-MID-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

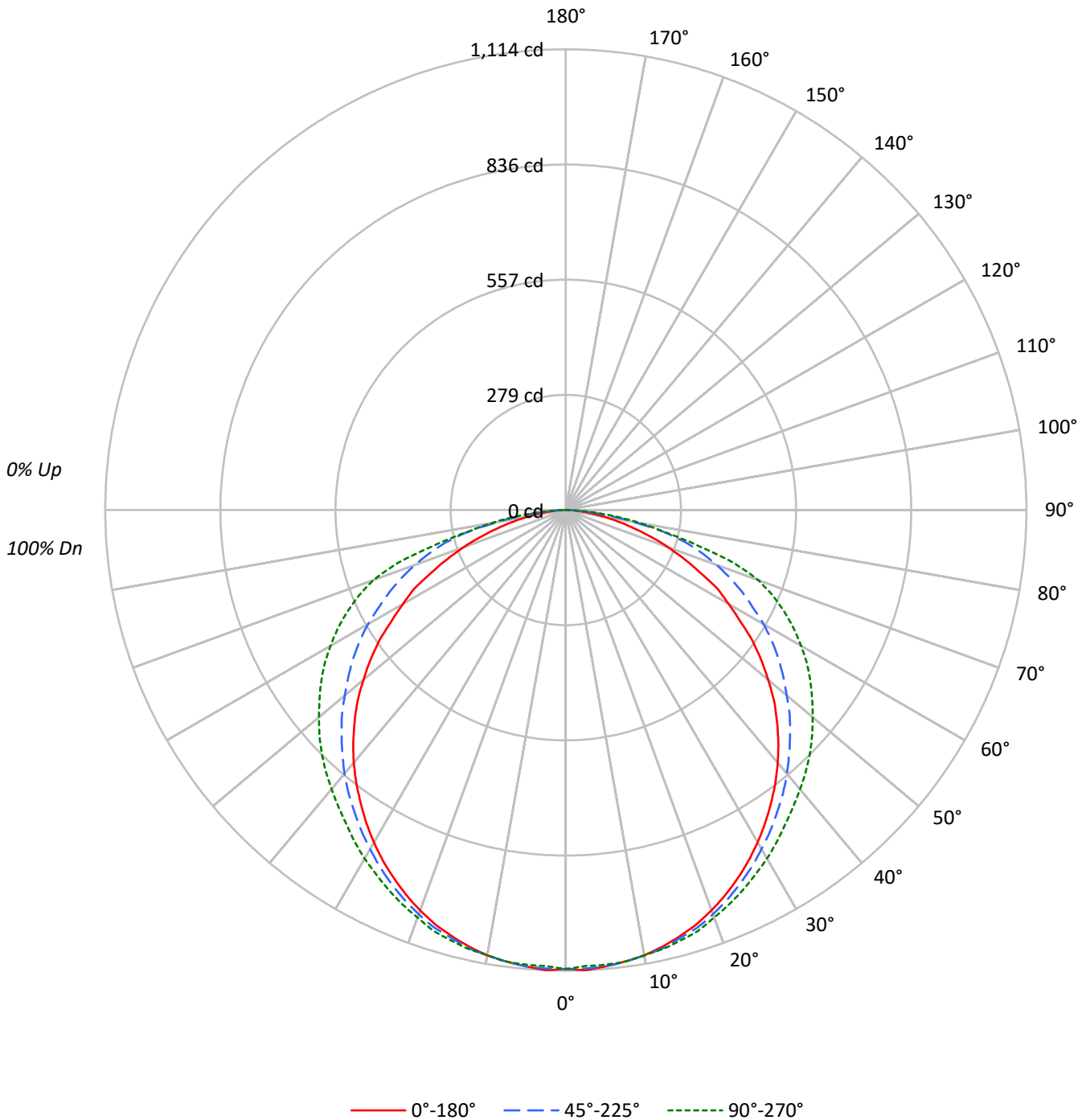
Lumens per Lamp: N/A
Luminaire Lumens: 3408.1 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 26.9
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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	70	70	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	38	38	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	30	30	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2986	2986	2986
5°	2992	2992	2981
10°	2987	2987	2987
15°	2972	2983	3001
20°	2950	2979	3003
25°	2919	2962	3010
30°	2884	2941	3024
35°	2842	2929	3042
40°	2802	2924	3096
45°	2748	2919	3175
50°	2673	2920	3262
55°	2585	2948	3388
60°	2448	2976	3535
65°	2286	3000	3714
70°	2071	3049	3901
75°	1782	3097	3413
80°	1455	2593	2814
85°	1198	1890	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 3901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.1
10°-20°	302.6	8.9
20°-30°	459.9	13.5
30°-40°	559.7	16.4
40°-50°	596.2	17.5
50°-60°	564.0	16.5
60°-70°	464.8	13.6
70°-80°	285.9	8.4
80°-90°	69.8	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°	867.7	25.5
0°-40°	1427.4	41.9
0°-60°	2587.6	75.9
0°-90°	3408.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1108	1108	1108	1106	1104	105
15°	1067	1069	1071	1075	1077	301
25°	983	987	998	1008	1014	453
35°	865	873	892	914	926	541
45°	722	734	767	810	834	557
55°	551	571	628	690	722	490
65°	359	394	471	547	583	357
75°	171	218	298	324	328	184
85°	39	51	61	65	67	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1113.9	1111.8	1109.7	1105.6	1103.6
5°	1107.7	1107.7	1107.7	1105.6	1103.6
7.5°	1101.5	1101.5	1101.5	1101.5	1101.5
10°	1093.3	1093.3	1093.3	1093.3	1093.3
12.5°	1081.2	1083.2	1085.3	1085.3	1087.3
15°	1066.8	1068.9	1070.9	1075.0	1077.1
17.5°	1050.6	1052.6	1058.8	1062.9	1066.8
20°	1030.2	1032.3	1040.3	1044.4	1048.5
22.5°	1007.8	1011.7	1020.0	1028.2	1032.3
25°	983.2	987.3	997.6	1007.8	1013.8
27.5°	956.7	960.8	973.1	987.3	993.4
30°	928.1	932.2	946.6	962.8	973.1
32.5°	897.5	903.7	920.1	940.4	950.7
35°	865.0	873.0	891.5	913.9	926.1
37.5°	832.4	840.4	863.0	889.5	903.7
40°	797.6	807.9	832.4	863.0	881.3
42.5°	760.9	773.2	799.7	836.5	858.9
45°	722.2	734.4	767.0	809.8	834.4
47.5°	683.4	697.6	734.4	781.2	807.9
50°	638.6	654.8	697.6	752.6	779.3
52.5°	595.7	616.0	663.0	722.2	750.8
55°	550.9	571.2	628.3	689.6	722.2
57.5°	499.7	524.4	591.6	656.9	691.6
60°	454.9	479.4	552.9	622.2	656.9
62.5°	414.0	436.6	510.0	585.4	622.2
65°	359.0	393.7	471.2	546.8	583.3
67.5°	310.1	348.9	430.5	501.8	542.6
70°	263.2	303.9	387.5	457.0	495.8
72.5°	216.2	261.1	344.8	406.0	426.4
75°	171.4	218.2	297.9	324.4	328.3
77.5°	130.5	177.5	240.8	238.7	242.7
80°	93.9	134.6	167.3	173.4	181.6
82.5°	63.3	93.9	108.1	118.3	126.6
85°	38.8	51.0	61.2	65.3	67.4
87.5°	18.3	20.3	20.3	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)