

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: P798120

Luminaire Tested: 24CZSB-SCT3-SQP-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-SQP-UNV-LOW-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

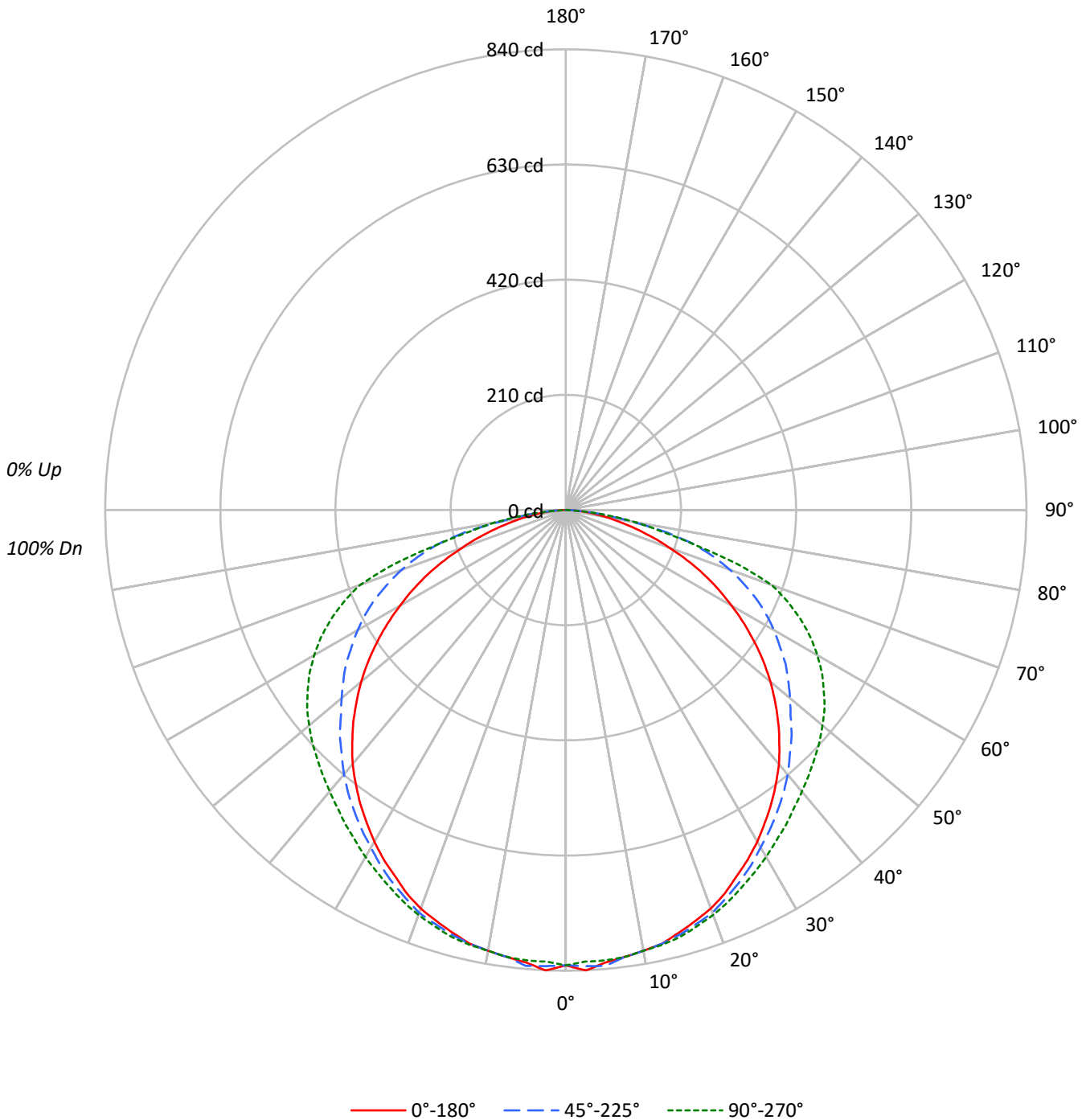
Lumens per Lamp: N/A
Luminaire Lumens: 2613.8 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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	71	77	73	70	70	70	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	58	58	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	50	50	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	43	43	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	29	29	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	27	27	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1117	1117	1117
5°	1119	1127	1113
10°	1115	1115	1115
15°	1111	1117	1123
20°	1107	1119	1125
25°	1094	1112	1127
30°	1085	1104	1135
35°	1073	1103	1150
40°	1062	1105	1177
45°	1043	1108	1220
50°	1020	1117	1279
55°	986	1148	1348
60°	939	1180	1426
65°	885	1221	1506
70°	791	1254	1573
75°	686	1255	1246
80°	581	927	1007
85°	502	628	563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 1573 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.0
10°-20°	226.4	8.7
20°-30°	345.0	13.2
30°-40°	422.1	16.1
40°-50°	454.2	17.4
50°-60°	439.9	16.8
60°-70°	372.7	14.3
70°-80°	225.3	8.6
80°-90°	49.5	1.9
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°	650.2	24.9
0°-40°	1072.2	41.0
0°-60°	1966.3	75.2
0°-90°	2613.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	828	828	834	830	824	79
15°	798	800	802	804	806	225
25°	737	741	749	755	759	340
35°	654	658	672	690	700	409
45°	548	558	582	619	641	422
55°	420	438	489	546	574	375
65°	278	309	384	444	473	274
75°	132	179	242	246	240	142
85°	32	38	41	38	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.1	830.1	830.1	830.1	830.1
2.5°	840.2	838.3	832.3	828.2	824.2
5°	828.2	828.2	834.3	830.1	824.2
7.5°	822.0	822.0	822.0	832.3	822.0
10°	816.0	818.1	816.0	824.2	816.0
12.5°	809.9	809.9	809.9	811.9	811.9
15°	797.7	799.8	801.8	803.8	805.9
17.5°	785.6	787.5	791.6	793.6	795.7
20°	773.4	775.3	781.5	781.5	785.6
22.5°	757.0	757.0	765.2	767.3	773.4
25°	736.8	740.9	749.0	755.1	759.1
27.5°	718.6	722.6	730.8	738.9	745.0
30°	698.2	702.4	710.4	722.6	730.8
32.5°	675.9	680.0	692.1	706.4	714.4
35°	653.5	657.7	671.8	690.2	700.3
37.5°	629.3	635.3	651.6	671.8	684.1
40°	604.9	611.0	629.3	651.6	669.9
42.5°	576.4	584.6	604.9	635.3	655.7
45°	548.1	558.3	582.5	619.2	641.3
47.5°	517.6	527.7	556.1	602.9	627.2
50°	487.2	499.3	533.8	584.6	611.0
52.5°	454.6	466.8	511.4	566.3	594.7
55°	420.2	438.5	489.2	546.0	574.5
57.5°	385.6	406.1	462.8	523.7	554.2
60°	349.0	373.5	438.5	499.3	529.8
62.5°	314.6	341.0	412.0	472.9	503.5
65°	278.0	308.6	383.6	444.5	472.9
67.5°	239.6	278.0	351.1	410.1	438.5
70°	201.0	245.7	318.7	373.5	399.8
72.5°	166.5	213.1	282.2	328.8	328.8
75°	131.9	178.7	241.5	245.7	239.6
77.5°	101.4	146.2	188.8	172.4	176.6
80°	75.0	111.7	119.7	125.8	130.0
82.5°	50.8	75.0	77.2	81.2	81.2
85°	32.5	38.5	40.7	38.5	36.5
87.5°	14.3	16.3	12.2	8.2	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)