

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: P798122

Luminaire Tested: 24CZSB-SCT3-SQP-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798122
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-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

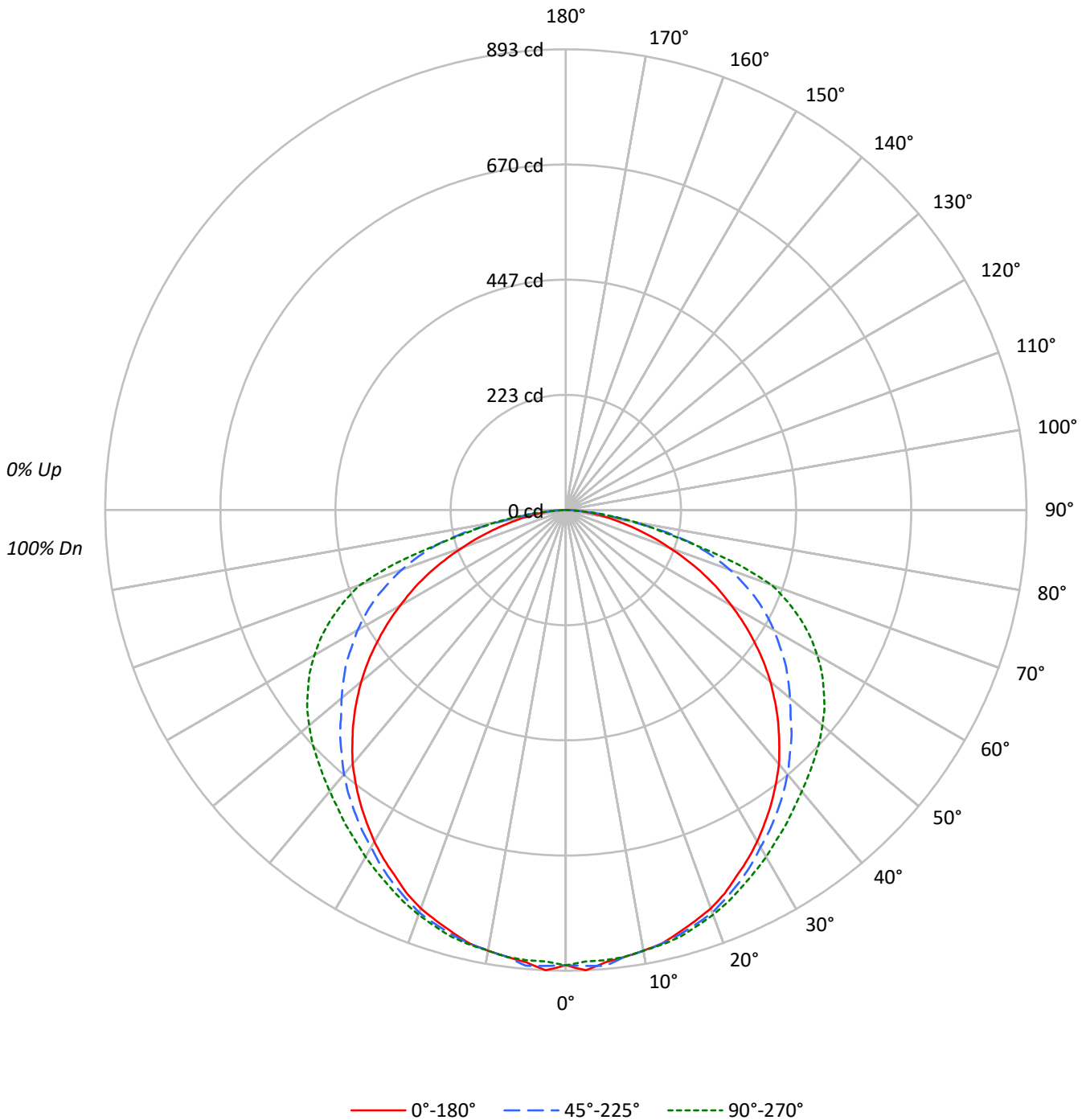
Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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°	1187	1187	1187
5°	1189	1198	1183
10°	1185	1185	1185
15°	1181	1187	1193
20°	1177	1189	1195
25°	1163	1182	1198
30°	1153	1173	1207
35°	1141	1173	1223
40°	1129	1175	1250
45°	1108	1178	1297
50°	1084	1187	1359
55°	1048	1220	1432
60°	998	1254	1515
65°	941	1298	1600
70°	840	1333	1672
75°	729	1334	1324
80°	618	986	1070
85°	534	667	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 70°

Luminance: 1672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	3.0
10°-20°	240.6	8.7
20°-30°	366.6	13.2
30°-40°	448.6	16.1
40°-50°	482.7	17.4
50°-60°	467.6	16.8
60°-70°	396.1	14.3
70°-80°	239.4	8.6
80°-90°	52.6	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°	691.0	24.9
0°-40°	1139.6	41.0
0°-60°	2089.8	75.2
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	880	880	887	882	876	84
15°	848	850	852	854	856	239
25°	783	787	796	802	807	361
35°	695	699	714	734	744	434
45°	582	593	619	658	682	449
55°	447	466	520	580	611	399
65°	296	328	408	472	503	291
75°	140	190	257	261	255	151
85°	35	41	43	41	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.3	882.3	882.3	882.3	882.3
2.5°	893.0	890.9	884.6	880.2	875.9
5°	880.2	880.2	886.7	882.3	875.9
7.5°	873.6	873.6	873.6	884.6	873.6
10°	867.3	869.5	867.3	875.9	867.3
12.5°	860.8	860.8	860.8	862.9	862.9
15°	847.8	850.1	852.1	854.3	856.5
17.5°	834.9	837.0	841.4	843.4	845.6
20°	822.0	824.0	830.6	830.6	834.9
22.5°	804.6	804.6	813.3	815.5	822.0
25°	783.1	787.4	796.1	802.5	806.8
27.5°	763.7	768.0	776.7	785.3	791.8
30°	742.1	746.5	755.0	768.0	776.7
32.5°	718.4	722.7	735.6	750.8	759.3
35°	694.6	699.0	714.0	733.6	744.3
37.5°	668.8	675.2	692.5	714.0	727.1
40°	642.9	649.4	668.8	692.5	711.9
42.5°	612.6	621.3	642.9	675.2	696.9
45°	582.5	593.4	619.1	658.1	681.6
47.5°	550.1	560.9	591.0	640.7	666.6
50°	517.8	530.7	567.3	621.3	649.4
52.5°	483.2	496.1	543.5	601.9	632.1
55°	446.6	466.0	520.0	580.3	610.6
57.5°	409.8	431.6	491.9	556.6	589.0
60°	371.0	397.0	466.0	530.7	563.1
62.5°	334.3	362.4	437.9	502.6	535.1
65°	295.5	328.0	407.7	472.5	502.6
67.5°	254.6	295.5	373.2	435.8	466.0
70°	213.6	261.1	338.8	397.0	425.0
72.5°	177.0	226.5	299.9	349.5	349.5
75°	140.2	189.9	256.7	261.1	254.6
77.5°	107.8	155.3	200.6	183.3	187.7
80°	79.7	118.7	127.2	133.7	138.1
82.5°	54.0	79.7	82.1	86.3	86.3
85°	34.6	40.9	43.2	40.9	38.8
87.5°	15.2	17.4	12.9	8.7	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)