

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: P798023

Luminaire Tested: 14CZSB-SCT3-HRP-UNV-LOW-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345154)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSB-SCT3-HRP-UNV-LOW-4000K  
Description: Cruze SB Selectable Troffer  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

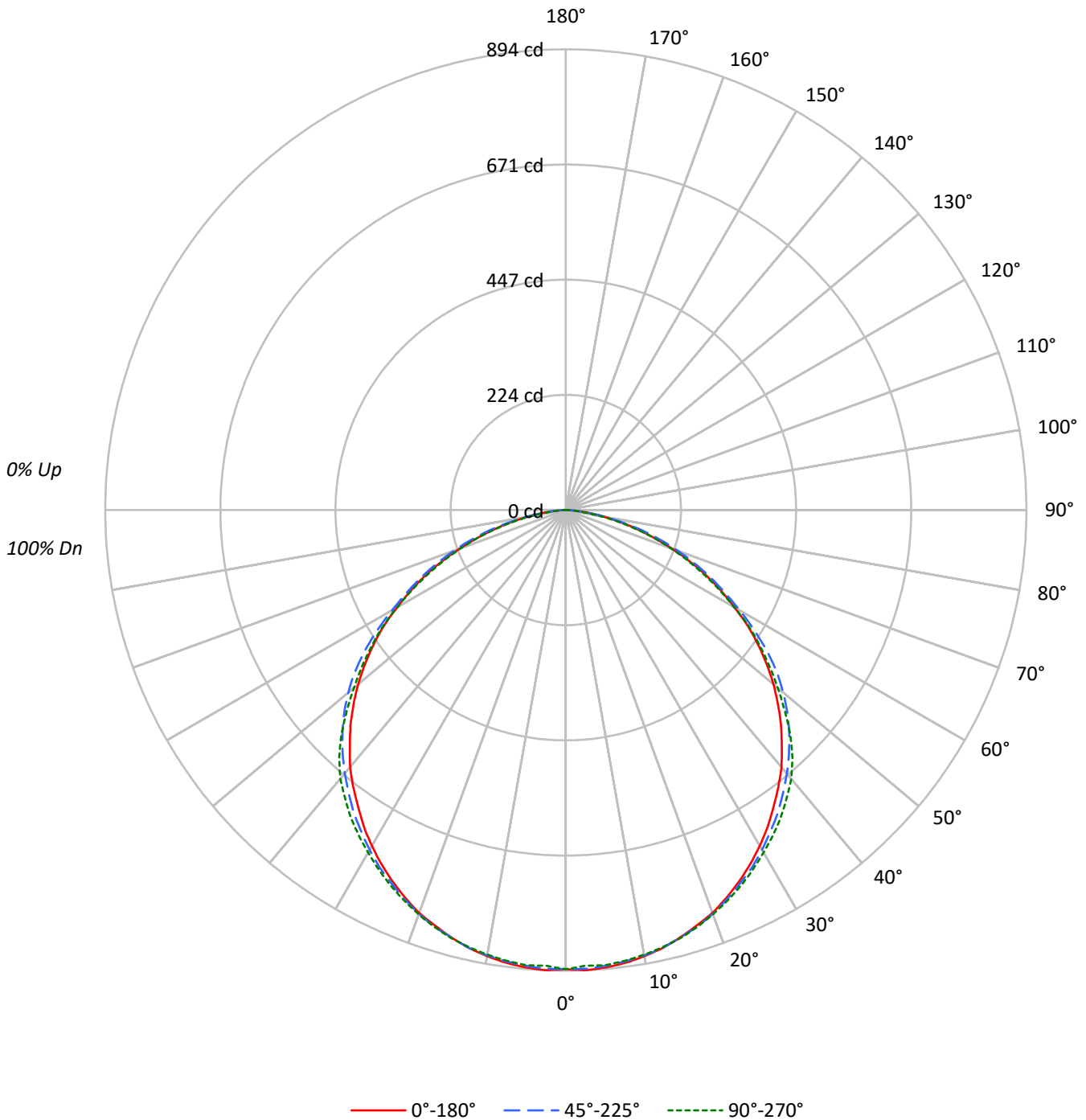
Lumens per Lamp: N/A  
Luminaire Lumens: 2517.7 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.5  
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



TEST NUMBER: P798023  
CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-LOW-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P798023

CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-LOW-4000K

**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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	26	26	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2397	2397	2397
5°	2407	2398	2395
10°	2402	2398	2394
15°	2392	2392	2396
20°	2383	2387	2391
25°	2362	2375	2388
30°	2339	2367	2385
35°	2308	2357	2391
40°	2288	2345	2391
45°	2249	2333	2344
50°	2203	2308	2246
55°	2138	2235	2159
60°	2034	2097	2034
65°	1919	1975	1882
70°	1723	1817	1701
75°	1483	1605	1451
80°	1162	1254	1048
85°	818	726	633

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 2350 cd/sqm



TEST NUMBER: P798023  
 CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-LOW-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	3.3
10°-20°	242.2	9.6
20°-30°	368.0	14.6
30°-40°	447.0	17.8
40°-50°	466.9	18.5
50°-60°	415.3	16.5
60°-70°	303.1	12.0
70°-80°	158.1	6.3
80°-90°	32.6	1.3
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°	694.6	27.6
0°-40°	1141.6	45.3
0°-60°	2023.8	80.4
0°-90°	2517.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2517.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	891	885	888	886	886	85
15°	859	854	859	860	860	242
25°	795	792	800	801	804	367
35°	703	703	717	722	728	440
45°	591	592	613	617	616	455
55°	456	465	476	463	460	406
65°	301	318	310	301	296	297
75°	143	156	154	144	140	152
85°	26	29	24	20	20	33
90°	0	0	0	0	0	



TEST NUMBER: P798023

CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-LOW-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	890.9	890.9	890.9	890.9	890.9
2.5°	893.9	887.9	890.9	889.5	885.1
5°	890.9	885.1	887.9	886.5	886.5
7.5°	886.5	880.7	883.5	882.1	882.1
10°	879.2	873.2	877.7	876.2	876.2
12.5°	870.4	864.4	870.4	868.8	868.8
15°	858.6	854.1	858.6	860.1	860.1
17.5°	845.3	842.4	848.3	848.3	848.3
20°	832.2	827.8	833.6	833.6	835.0
22.5°	814.5	810.1	817.5	815.9	820.3
25°	795.4	792.4	799.8	801.2	804.2
27.5°	774.9	773.3	782.1	783.6	786.5
30°	752.8	749.8	761.6	763.0	767.4
32.5°	729.2	729.2	739.5	742.5	748.3
35°	702.7	702.7	717.4	721.8	727.8
37.5°	677.7	677.7	692.4	699.8	704.3
40°	651.2	651.2	667.5	674.8	680.7
42.5°	620.4	621.8	641.0	648.4	651.2
45°	591.0	592.5	613.0	617.4	616.0
47.5°	558.7	563.1	583.6	580.8	576.4
50°	526.3	530.7	551.3	539.6	536.6
52.5°	491.1	498.4	516.0	499.8	498.4
55°	455.7	464.6	476.4	463.1	460.1
57.5°	418.9	430.8	433.8	424.9	421.9
60°	377.9	394.0	389.6	382.3	377.9
62.5°	339.7	354.3	348.5	341.1	336.7
65°	301.4	317.6	310.1	301.4	295.5
67.5°	260.2	279.3	270.5	260.2	255.8
70°	219.0	235.3	230.9	220.6	216.2
72.5°	179.4	194.1	192.6	182.2	178.0
75°	142.6	155.9	154.4	144.0	139.6
77.5°	107.4	120.5	116.2	107.4	103.0
80°	75.0	86.7	80.9	72.0	67.6
82.5°	48.5	54.3	48.5	41.2	38.2
85°	26.5	29.4	23.5	20.5	20.5
87.5°	8.8	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)