

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: P798024

Luminaire Tested: 14CZSB-SCT3-HRP-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798024
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-MID-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

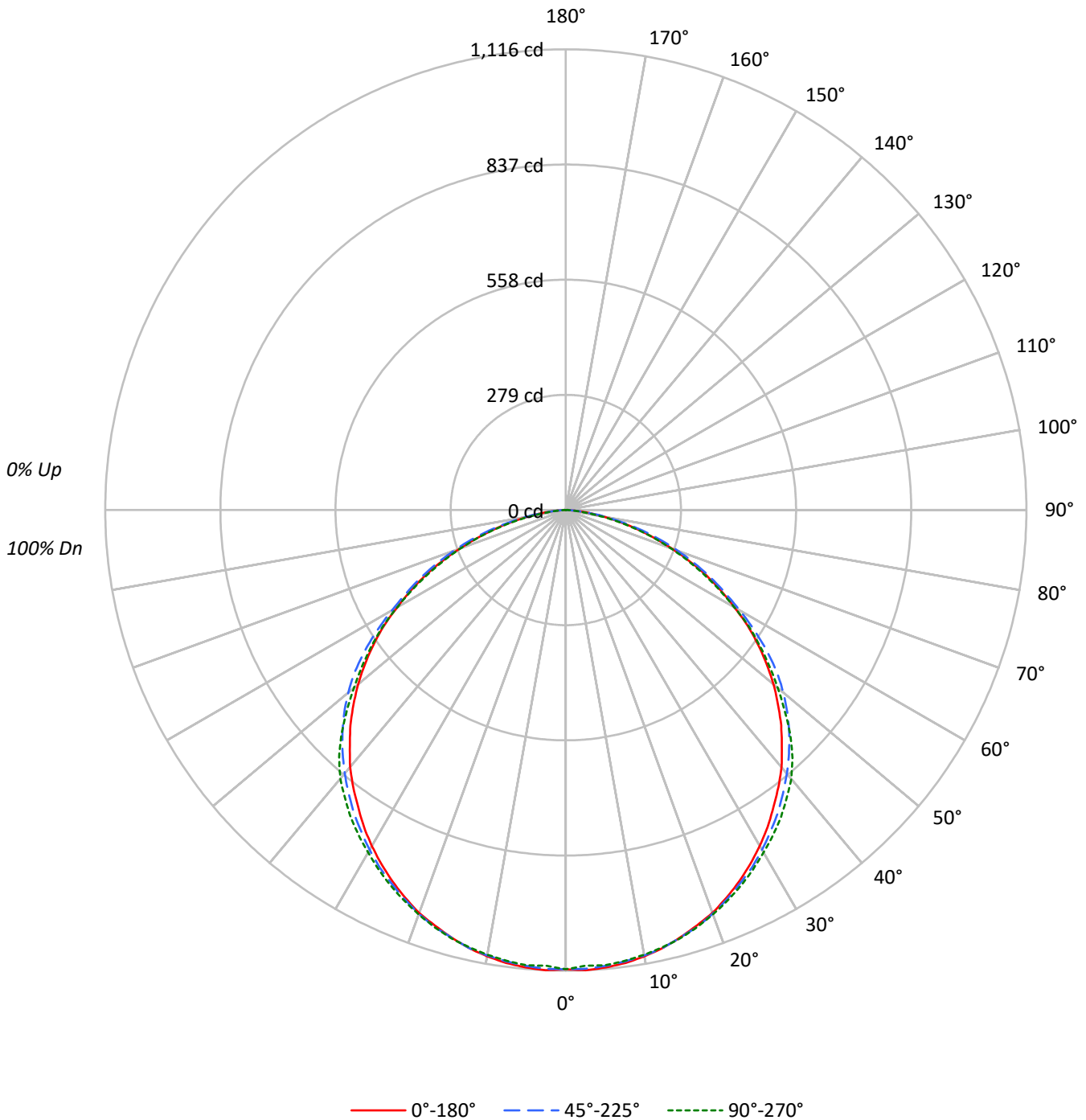
Lumens per Lamp: N/A
Luminaire Lumens: 3143.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
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: P798024
CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-MID-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P798024
 CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-MID-3000K

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°	2993	2993	2993
5°	3005	2994	2989
10°	2999	2994	2989
15°	2986	2986	2992
20°	2975	2980	2985
25°	2948	2965	2981
30°	2920	2954	2977
35°	2882	2942	2985
40°	2856	2927	2986
45°	2808	2912	2927
50°	2751	2881	2804
55°	2669	2791	2695
60°	2539	2617	2539
65°	2396	2465	2349
70°	2151	2268	2124
75°	1851	2005	1812
80°	1450	1564	1308
85°	1022	908	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 2933 cd/sqm



TEST NUMBER: P798024
 CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-MID-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.3
10°-20°	302.4	9.6
20°-30°	459.4	14.6
30°-40°	558.1	17.8
40°-50°	583.0	18.5
50°-60°	518.5	16.5
60°-70°	378.4	12.0
70°-80°	197.4	6.3
80°-90°	40.7	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°	867.1	27.6
0°-40°	1425.2	45.3
0°-60°	2526.6	80.4
0°-90°	3143.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1112	1105	1108	1107	1107	106
15°	1072	1066	1072	1074	1074	303
25°	993	989	998	1000	1004	458
35°	877	877	896	901	909	550
45°	738	740	765	771	769	569
55°	569	580	595	578	574	507
65°	376	396	387	376	369	370
75°	178	195	193	180	174	190
85°	33	37	29	26	26	41
90°	0	0	0	0	0	



TEST NUMBER: P798024

CATALOG NUMBER: 14CZSB-SCT3-HRP-UNV-MID-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1116.0	1108.5	1112.3	1110.5	1105.0
5°	1112.3	1105.0	1108.5	1106.7	1106.7
7.5°	1106.7	1099.4	1103.0	1101.2	1101.2
10°	1097.7	1090.2	1095.7	1093.9	1093.9
12.5°	1086.6	1079.1	1086.6	1084.7	1084.7
15°	1071.8	1066.3	1071.8	1073.8	1073.8
17.5°	1055.3	1051.7	1059.0	1059.0	1059.0
20°	1038.9	1033.4	1040.7	1040.7	1042.5
22.5°	1016.8	1011.3	1020.6	1018.6	1024.1
25°	993.0	989.2	998.5	1000.3	1004.0
27.5°	967.3	965.4	976.4	978.2	981.9
30°	939.8	936.0	950.8	952.6	958.1
32.5°	910.4	910.4	923.2	926.9	934.2
35°	877.3	877.3	895.6	901.1	908.6
37.5°	846.1	846.1	864.5	873.7	879.2
40°	813.0	813.0	833.3	842.4	849.9
42.5°	774.6	776.3	800.2	809.4	813.0
45°	737.9	739.7	765.3	770.8	769.0
47.5°	697.5	703.0	728.6	725.1	719.5
50°	657.1	662.6	688.2	673.6	669.9
52.5°	613.1	622.2	644.2	624.0	622.2
55°	568.9	580.0	594.8	578.2	574.5
57.5°	523.0	537.8	541.5	530.5	526.8
60°	471.7	491.9	486.3	477.3	471.7
62.5°	424.0	442.4	435.1	425.8	420.3
65°	376.3	396.4	387.2	376.3	368.9
67.5°	324.9	348.7	337.7	324.9	319.4
70°	273.4	293.7	288.2	275.4	269.9
72.5°	223.9	242.3	240.5	227.5	222.2
75°	178.0	194.6	192.8	179.8	174.3
77.5°	134.0	150.4	145.1	134.0	128.5
80°	93.6	108.2	100.9	89.9	84.4
82.5°	60.5	67.8	60.5	51.4	47.7
85°	33.1	36.7	29.4	25.6	25.6
87.5°	11.0	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)