

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: P798026

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798026
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-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

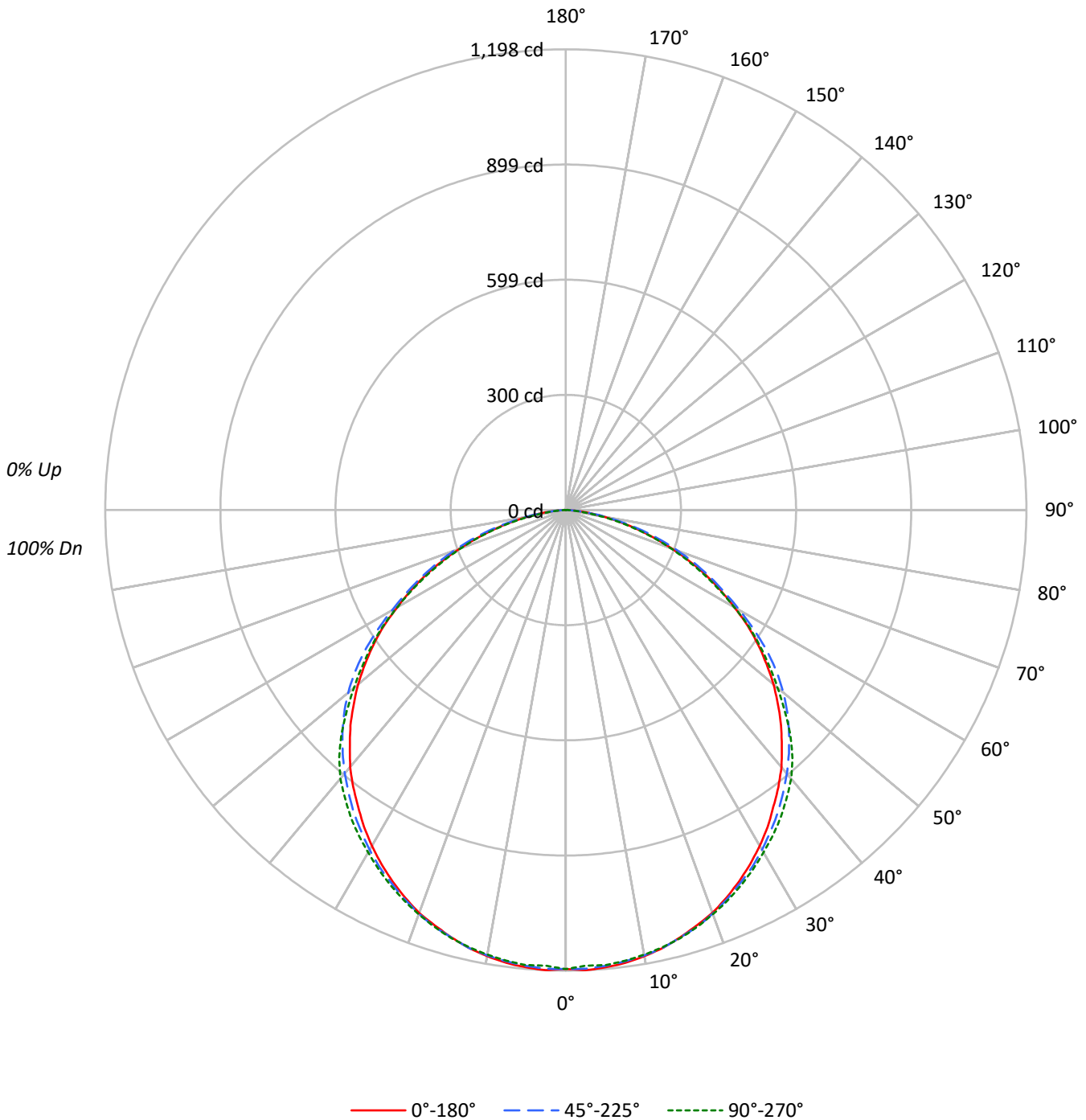
Lumens per Lamp: N/A
Luminaire Lumens: 3373.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



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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	100				
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70				
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59				
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51				
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44				
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38				
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30				
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3212	3212	3212
5°	3224	3214	3209
10°	3219	3213	3208
15°	3205	3205	3210
20°	3193	3198	3204
25°	3164	3182	3199
30°	3134	3171	3195
35°	3093	3158	3203
40°	3065	3142	3204
45°	3014	3126	3141
50°	2952	3092	3010
55°	2865	2995	2892
60°	2725	2809	2725
65°	2572	2646	2521
70°	2309	2434	2279
75°	1987	2151	1944
80°	1557	1678	1404
85°	1096	973	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 3148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.3
10°-20°	324.5	9.6
20°-30°	493.1	14.6
30°-40°	599.0	17.8
40°-50°	625.6	18.5
50°-60°	556.4	16.5
60°-70°	406.1	12.0
70°-80°	211.8	6.3
80°-90°	43.7	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°	930.6	27.6
0°-40°	1529.6	45.3
0°-60°	2711.6	80.4
0°-90°	3373.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3373.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1194	1186	1190	1188	1188	113
15°	1150	1144	1150	1152	1152	325
25°	1066	1062	1072	1074	1078	491
35°	942	942	961	967	975	590
45°	792	794	821	827	825	610
55°	611	622	638	620	616	545
65°	404	426	416	404	396	398
75°	191	209	207	193	187	204
85°	36	39	32	28	28	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.7	1193.7	1193.7	1193.7	1193.7
2.5°	1197.7	1189.7	1193.7	1191.8	1185.9
5°	1193.7	1185.9	1189.7	1187.8	1187.8
7.5°	1187.8	1179.9	1183.8	1181.9	1181.9
10°	1178.0	1170.0	1175.9	1174.0	1174.0
12.5°	1166.2	1158.2	1166.2	1164.1	1164.1
15°	1150.3	1144.4	1150.3	1152.4	1152.4
17.5°	1132.6	1128.7	1136.6	1136.6	1136.6
20°	1115.0	1109.1	1116.9	1116.9	1118.8
22.5°	1091.3	1085.4	1095.3	1093.2	1099.1
25°	1065.7	1061.7	1071.6	1073.5	1077.5
27.5°	1038.2	1036.1	1047.9	1049.8	1053.8
30°	1008.6	1004.6	1020.4	1022.3	1028.2
32.5°	977.0	977.0	990.8	994.8	1002.6
35°	941.5	941.5	961.2	967.1	975.1
37.5°	908.1	908.1	927.8	937.7	943.6
40°	872.5	872.5	894.3	904.1	912.1
42.5°	831.3	833.2	858.8	868.7	872.5
45°	791.9	793.8	821.3	827.3	825.3
47.5°	748.5	754.5	782.0	778.2	772.2
50°	705.2	711.1	738.6	722.9	718.9
52.5°	658.0	667.7	691.4	669.6	667.7
55°	610.6	622.5	638.3	620.5	616.5
57.5°	561.3	577.2	581.2	569.3	565.3
60°	506.3	527.9	522.0	512.2	506.3
62.5°	455.1	474.8	466.9	457.0	451.1
65°	403.9	425.5	415.5	403.9	395.9
67.5°	348.7	374.3	362.4	348.7	342.7
70°	293.5	315.2	309.3	295.6	289.6
72.5°	240.3	260.0	258.1	244.2	238.4
75°	191.1	208.8	206.9	193.0	187.0
77.5°	143.9	161.4	155.7	143.9	137.9
80°	100.5	116.2	108.3	96.5	90.6
82.5°	65.0	72.8	65.0	55.2	51.2
85°	35.5	39.4	31.5	27.5	27.5
87.5°	11.8	13.8	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)