

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: P798368

Luminaire Tested: 14CZSB-SCT3-S-UNV-LOW-3000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-S-UNV-LOW-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

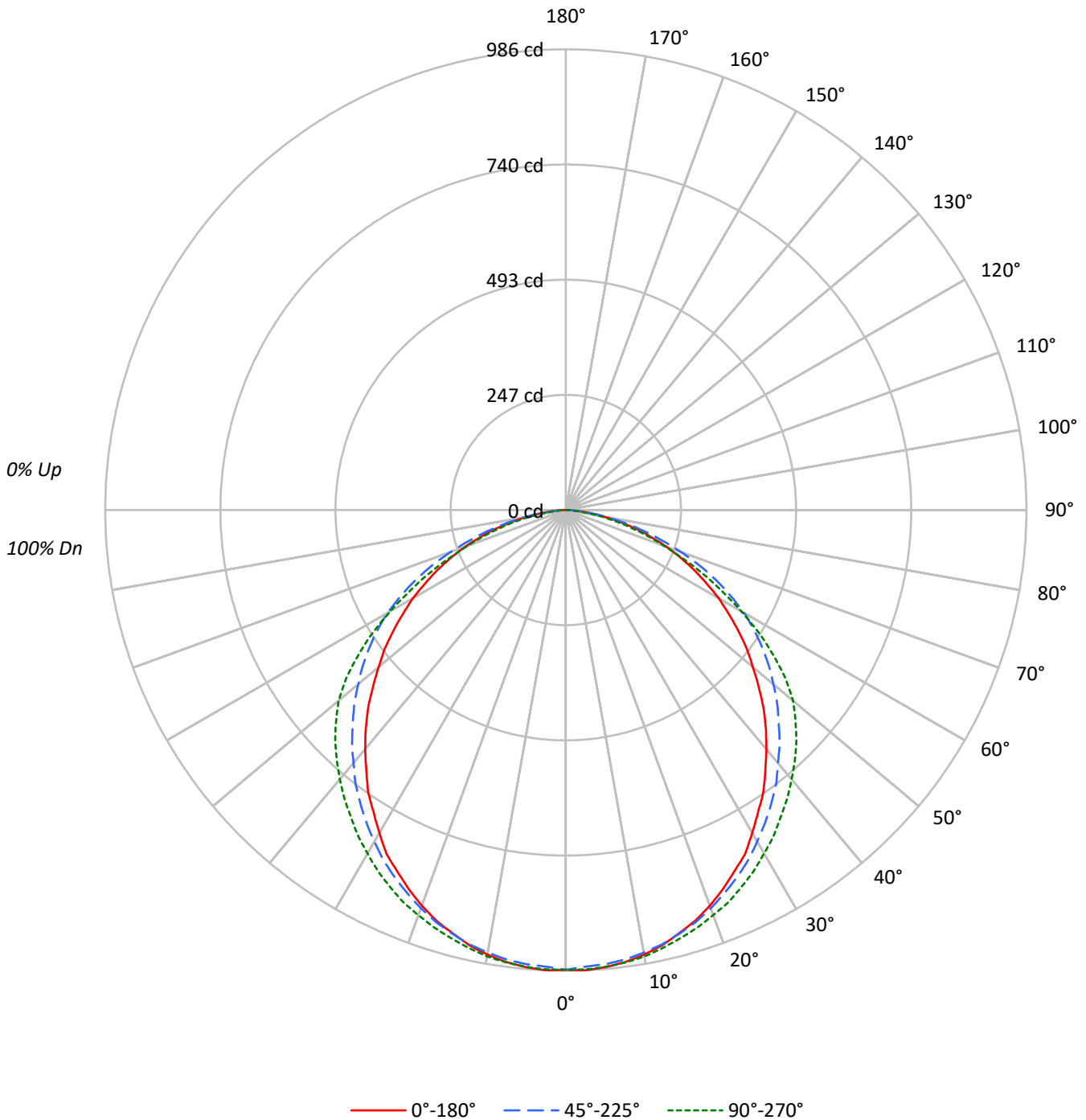
Lumens per Lamp: N/A
Luminaire Lumens: 2728.6 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	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	48	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	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	47	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1324	1324	1324
5°	1326	1318	1325
10°	1320	1314	1326
15°	1306	1308	1322
20°	1290	1299	1321
25°	1267	1287	1321
30°	1240	1273	1319
35°	1211	1259	1317
40°	1173	1241	1321
45°	1139	1227	1328
50°	1094	1214	1329
55°	1058	1204	1274
60°	1017	1187	1167
65°	962	1130	1039
70°	898	1027	878
75°	810	895	737
80°	652	703	561
85°	463	403	292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 1329 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.4
10°-20°	266.0	9.7
20°-30°	401.2	14.7
30°-40°	481.1	17.6
40°-50°	499.3	18.3
50°-60°	450.7	16.5
60°-70°	328.3	12.0
70°-80°	172.2	6.3
80°-90°	36.8	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°	760.3	27.9
0°-40°	1241.4	45.5
0°-60°	2191.4	80.3
0°-90°	2728.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	982	980	976	982	981	93
15°	938	938	939	949	949	265
25°	853	858	867	886	890	393
35°	737	744	767	795	802	460
45°	598	611	645	685	698	461
55°	451	467	513	544	543	403
65°	302	320	355	339	326	299
75°	156	178	172	149	142	164
85°	30	36	26	20	19	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.9	983.9	983.9	983.9	983.9
2.5°	986.0	983.3	978.1	984.6	983.9
5°	982.0	980.1	975.6	982.0	981.3
7.5°	975.6	974.2	970.3	977.4	976.7
10°	966.3	964.4	961.9	969.6	970.3
12.5°	954.0	953.3	951.9	960.5	959.8
15°	937.6	937.6	938.9	949.4	948.8
17.5°	921.4	921.4	924.6	936.4	936.9
20°	901.2	902.4	906.9	921.4	922.6
22.5°	878.2	879.6	887.5	905.7	909.0
25°	853.4	858.0	867.1	886.0	890.1
27.5°	830.6	831.3	845.0	865.9	871.1
30°	797.9	807.2	819.5	843.7	848.9
32.5°	766.0	775.2	794.1	820.2	827.3
35°	737.4	744.4	766.7	795.4	802.0
37.5°	701.5	713.1	739.2	769.3	778.4
40°	668.1	678.5	706.7	740.6	752.2
42.5°	633.5	645.3	677.4	713.8	725.6
45°	598.4	611.4	644.7	685.1	698.1
47.5°	559.8	576.2	613.9	655.1	666.9
50°	522.7	539.5	580.0	623.2	634.9
52.5°	488.6	503.8	548.1	587.9	593.0
55°	450.9	466.6	513.4	544.3	542.9
57.5°	413.1	430.6	477.7	496.5	491.3
60°	377.8	394.0	441.0	445.1	433.8
62.5°	338.7	357.6	397.4	391.5	377.8
65°	302.1	320.5	355.0	338.7	326.2
67.5°	264.8	284.5	309.3	285.2	270.7
70°	228.3	251.8	261.1	235.0	223.1
72.5°	191.1	215.9	215.2	190.4	180.8
75°	155.8	178.1	172.2	148.8	141.7
77.5°	118.7	141.0	129.8	112.2	105.7
80°	84.1	105.1	90.7	76.9	72.4
82.5°	57.3	69.8	56.8	45.0	43.0
85°	30.0	35.9	26.1	20.2	18.9
87.5°	11.1	10.4	9.2	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)