

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: P798017

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-UNV-MID-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

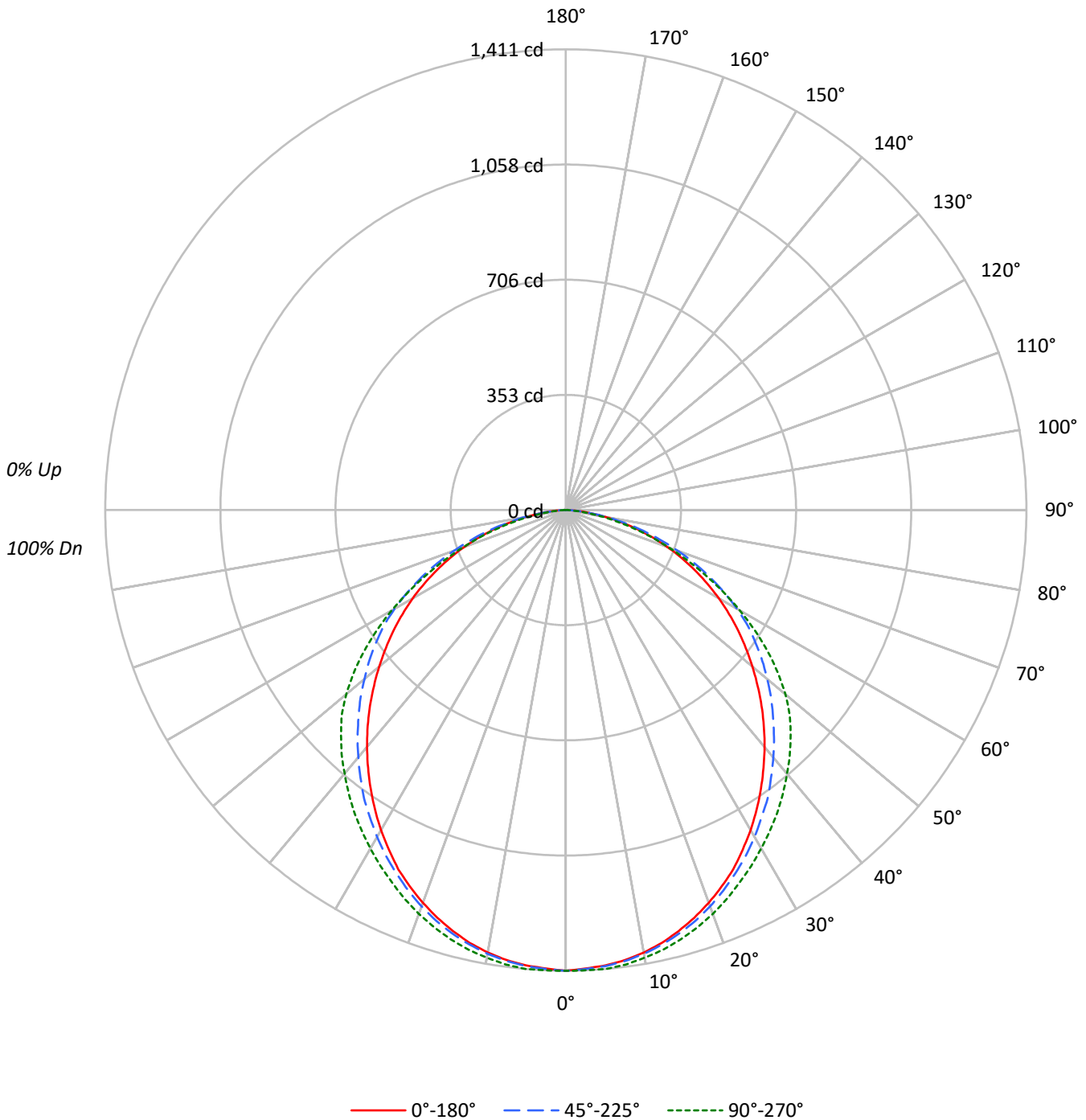
Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	81	76	82	78	74	79	76	73	73	73	73	70	
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	59	
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	53	53	53	51	
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	38	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	36	36	36	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	32	32	32	30	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3797	3797	3797
5°	3782	3787	3812
10°	3760	3771	3804
15°	3719	3742	3792
20°	3666	3700	3769
25°	3605	3646	3738
30°	3518	3592	3720
35°	3423	3542	3712
40°	3327	3475	3703
45°	3228	3418	3707
50°	3123	3370	3676
55°	3026	3331	3542
60°	2917	3261	3315
65°	2776	3101	3005
70°	2604	2872	2644
75°	2350	2558	2225
80°	1953	2046	1658
85°	1359	1142	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 47.5°
 Luminance: 3709 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.5
10°-20°	379.7	9.9
20°-30°	568.0	14.8
30°-40°	676.1	17.6
40°-50°	697.7	18.2
50°-60°	626.8	16.3
60°-70°	461.6	12.0
70°-80°	245.6	6.4
80°-90°	51.1	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°	1081.1	28.2
0°-40°	1757.2	45.8
0°-60°	3081.7	80.3
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1400	1409	1402	1402	1411	133
15°	1335	1342	1343	1353	1361	376
25°	1214	1218	1228	1247	1259	558
35°	1042	1049	1078	1111	1130	652
45°	848	856	898	952	974	654
55°	645	650	710	750	755	576
65°	436	443	487	480	472	432
75°	226	239	246	224	214	239
85°	44	45	37	28	26	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.1	1411.1	1411.1	1411.1	1411.1
2.5°	1405.1	1414.1	1407.1	1407.1	1411.1
5°	1400.1	1409.1	1402.1	1402.1	1411.1
7.5°	1390.1	1399.1	1393.1	1395.1	1404.1
10°	1376.1	1385.1	1380.1	1384.1	1392.1
12.5°	1358.1	1365.1	1363.1	1369.1	1379.1
15°	1335.1	1342.1	1343.1	1353.1	1361.1
17.5°	1309.1	1317.1	1319.1	1332.1	1340.1
20°	1280.1	1288.1	1292.1	1306.1	1316.1
22.5°	1248.1	1254.1	1261.1	1276.1	1289.1
25°	1214.1	1218.1	1228.1	1247.1	1259.1
27.5°	1173.1	1183.1	1194.1	1216.1	1229.1
30°	1132.1	1138.1	1156.1	1182.1	1197.1
32.5°	1088.1	1095.1	1116.1	1147.1	1164.1
35°	1042.1	1049.1	1078.1	1111.1	1130.1
37.5°	995.1	1003.1	1033.1	1072.1	1093.1
40°	947.1	954.1	989.1	1034.1	1054.1
42.5°	898.1	906.1	944.1	994.1	1016.1
45°	848.1	856.1	898.1	952.1	974.1
47.5°	797.1	805.1	853.1	909.1	931.1
50°	746.0	754.0	805.1	862.1	878.1
52.5°	695.0	702.0	759.0	808.1	819.1
55°	645.0	650.0	710.0	750.0	755.0
57.5°	593.0	597.0	662.0	685.0	687.0
60°	542.0	546.0	606.0	619.0	616.0
62.5°	489.0	494.0	548.0	550.0	544.0
65°	436.0	443.0	487.0	480.0	472.0
67.5°	384.0	393.0	426.0	412.0	402.0
70°	331.0	343.0	365.0	346.0	336.0
72.5°	278.0	292.0	303.0	284.0	273.0
75°	226.0	239.0	246.0	224.0	214.0
77.5°	174.0	185.0	185.0	166.0	158.0
80°	126.0	135.0	132.0	114.0	107.0
82.5°	81.0	88.0	83.0	66.0	60.0
85°	44.0	45.0	37.0	28.0	26.0
87.5°	16.0	11.0	13.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)