

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: P798123

Luminaire Tested: 24CZSB-SCT3-SQP-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-SQP-UNV-MID-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

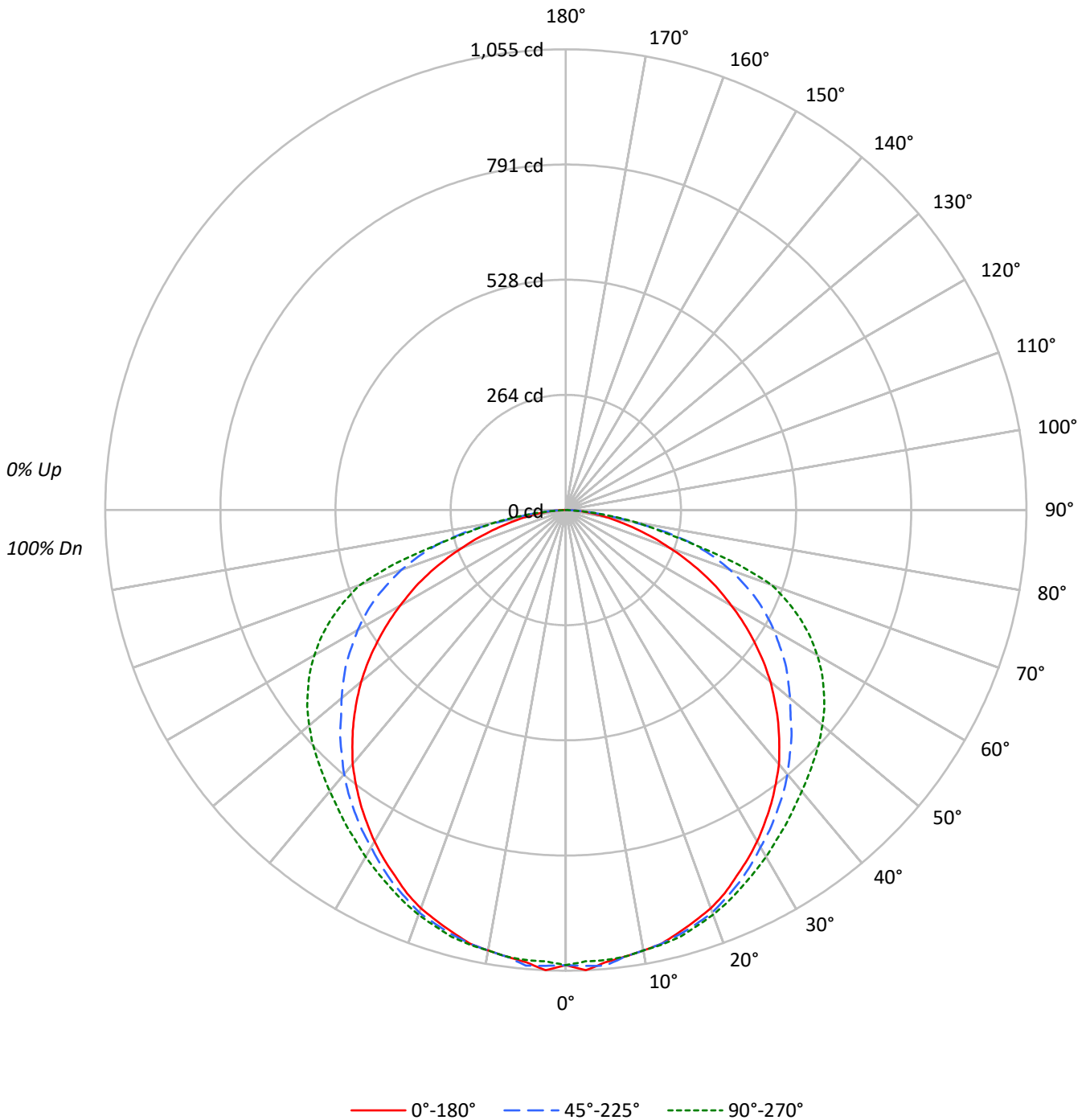
Lumens per Lamp: N/A
Luminaire Lumens: 3281.1 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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				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	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68	68	68	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56	56	56	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47	47	47	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41	41	41	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35	35	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31	31	31	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28	28	28	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25	25	25	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22	22	22	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1402	1402	1402
5°	1404	1415	1397
10°	1399	1399	1399
15°	1395	1402	1409
20°	1390	1405	1412
25°	1373	1396	1415
30°	1362	1386	1425
35°	1348	1385	1444
40°	1334	1388	1477
45°	1309	1392	1532
50°	1280	1403	1605
55°	1237	1441	1692
60°	1179	1481	1790
65°	1111	1533	1890
70°	993	1574	1974
75°	861	1576	1563
80°	730	1165	1264
85°	630	789	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 1974 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.0
10°-20°	284.2	8.7
20°-30°	433.0	13.2
30°-40°	529.8	16.1
40°-50°	570.1	17.4
50°-60°	552.2	16.8
60°-70°	467.8	14.3
70°-80°	282.8	8.6
80°-90°	62.2	1.9
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°	816.2	24.9
0°-40°	1346.0	41.0
0°-60°	2468.4	75.2
0°-90°	3281.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3281.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1040	1040	1047	1042	1035	99
15°	1001	1004	1006	1009	1012	283
25°	925	930	940	948	953	427
35°	820	826	843	866	879	513
45°	688	701	731	777	805	530
55°	528	550	614	685	721	471
65°	349	387	482	558	594	344
75°	166	224	303	308	301	178
85°	41	48	51	48	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.1	1042.1	1042.1	1042.1	1042.1
2.5°	1054.8	1052.3	1044.8	1039.6	1034.6
5°	1039.6	1039.6	1047.3	1042.1	1034.6
7.5°	1031.8	1031.8	1031.8	1044.8	1031.8
10°	1024.3	1027.0	1024.3	1034.6	1024.3
12.5°	1016.7	1016.7	1016.7	1019.1	1019.1
15°	1001.4	1004.0	1006.5	1009.1	1011.7
17.5°	986.1	988.6	993.8	996.2	998.8
20°	970.8	973.3	981.1	981.1	986.1
22.5°	950.3	950.3	960.6	963.2	970.8
25°	925.0	930.0	940.3	947.9	952.9
27.5°	902.0	907.1	917.3	927.6	935.2
30°	876.5	881.7	891.8	907.1	917.3
32.5°	848.5	853.6	868.9	886.7	896.8
35°	820.4	825.6	843.3	866.4	879.1
37.5°	790.0	797.4	817.9	843.3	858.8
40°	759.4	767.0	790.0	817.9	840.9
42.5°	723.6	733.9	759.4	797.4	823.2
45°	688.0	700.9	731.3	777.3	805.1
47.5°	649.8	662.5	698.1	756.8	787.4
50°	611.6	626.8	670.1	733.9	767.0
52.5°	570.7	586.0	642.0	710.9	746.5
55°	527.5	550.4	614.2	685.4	721.2
57.5°	484.0	509.7	581.0	657.4	695.6
60°	438.2	468.9	550.4	626.8	665.1
62.5°	394.9	428.1	517.2	593.7	632.1
65°	349.0	387.4	481.6	558.0	593.7
67.5°	300.7	349.0	440.8	514.8	550.4
70°	252.3	308.4	400.1	468.9	501.9
72.5°	209.0	267.6	354.2	412.8	412.8
75°	165.6	224.3	303.2	308.4	300.7
77.5°	127.3	183.5	237.0	216.5	221.7
80°	94.2	140.2	150.3	157.9	163.1
82.5°	63.8	94.2	96.9	102.0	102.0
85°	40.8	48.3	51.1	48.3	45.9
87.5°	17.9	20.5	15.3	10.3	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)