

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: P798382

Luminaire Tested: 22CZSB-SCT3-S-UNV-MID-4000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-S-UNV-MID-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

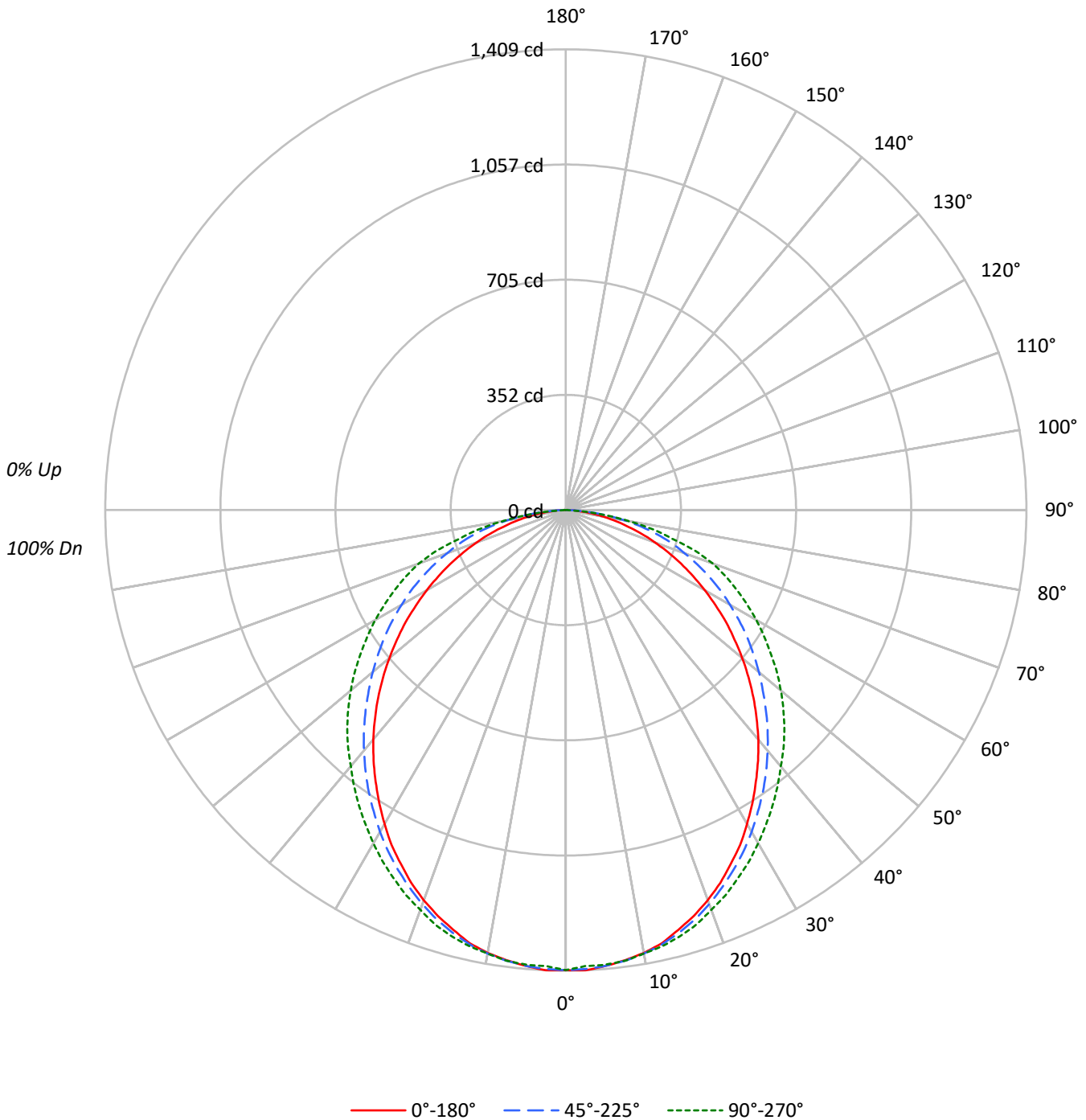
Lumens per Lamp: N/A
Luminaire Lumens: 3859.6 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
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	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	102	102	102	102	102	102	102	102	100				
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	85	85	85	85	85	85	85	85	85	85	85	83				
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	71	71	71	71	71	71	71	71	71	71	71	69				
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	60	60	60	60	60	60	60	60	60	60	60	58				
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	52	52	52	52	52	52	52	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	45	45	45	45	45	45	45	45	45	43				
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	40	40	40	40	40	40	40	40	40	40	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	35	35	35	35	35	35	35	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	32	32	32	32	32	32	32	32	32	32	32	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	29	29	29	29	29	29	29	29	29	29	29	27				
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	26	26	26	26	26	26	26	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3786	3786	3786
5°	3781	3781	3771
10°	3759	3764	3764
15°	3703	3728	3760
20°	3637	3674	3727
25°	3545	3605	3693
30°	3445	3532	3657
35°	3331	3453	3623
40°	3217	3374	3594
45°	3089	3295	3599
50°	2949	3229	3594
55°	2809	3174	3592
60°	2645	3124	3622
65°	2479	3081	3671
70°	2290	3047	3763
75°	2064	3026	3488
80°	1810	2813	3044
85°	1488	2118	1886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 3763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.4
10°-20°	377.5	9.8
20°-30°	560.6	14.5
30°-40°	659.9	17.1
40°-50°	672.8	17.4
50°-60°	606.8	15.7
60°-70°	477.9	12.4
70°-80°	294.8	7.6
80°-90°	76.5	2.0
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°	1070.9	27.7
0°-40°	1730.9	44.8
0°-60°	3010.4	78.0
0°-90°	3859.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3859.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1400	1402	1400	1398	1396	133
15°	1329	1335	1338	1346	1350	375
25°	1194	1201	1214	1235	1244	550
35°	1014	1025	1051	1084	1103	634
45°	812	825	866	918	946	626
55°	599	619	677	738	766	534
65°	389	417	484	545	577	386
75°	198	232	291	324	336	212
85°	48	61	69	65	61	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.1	1407.1	1407.1	1407.1	1407.1
2.5°	1408.8	1408.8	1405.2	1401.5	1395.9
5°	1399.8	1401.5	1399.8	1397.7	1395.9
7.5°	1388.6	1390.3	1390.3	1390.3	1390.3
10°	1375.5	1377.4	1377.4	1377.4	1377.4
12.5°	1357.0	1358.9	1360.7	1362.6	1366.3
15°	1329.3	1334.6	1338.3	1345.8	1349.5
17.5°	1301.5	1306.9	1312.7	1321.7	1329.3
20°	1269.9	1273.6	1283.0	1294.0	1301.5
22.5°	1234.6	1240.2	1249.5	1264.3	1275.5
25°	1194.0	1201.3	1214.2	1234.6	1243.9
27.5°	1155.1	1160.4	1177.0	1199.4	1212.5
30°	1108.6	1115.9	1136.6	1164.1	1177.0
32.5°	1062.4	1071.4	1093.8	1125.4	1140.2
35°	1014.0	1025.2	1051.2	1084.5	1103.0
37.5°	965.8	977.0	1006.7	1043.7	1064.1
40°	915.9	926.9	960.4	1001.1	1023.2
42.5°	863.9	876.8	913.8	960.4	986.2
45°	811.8	825.0	865.8	917.6	945.6
47.5°	758.3	773.1	817.6	875.1	902.8
50°	704.5	721.1	771.2	830.5	858.5
52.5°	650.6	669.3	723.0	784.3	814.0
55°	598.7	619.1	676.6	737.7	765.6
57.5°	543.2	567.3	628.4	687.8	719.4
60°	491.4	517.2	580.4	639.6	672.9
62.5°	439.4	467.1	533.8	593.3	624.7
65°	389.4	417.0	483.9	545.0	576.6
67.5°	339.2	370.8	435.7	496.8	528.4
70°	291.0	324.3	387.3	446.9	478.3
72.5°	244.7	278.1	341.1	396.8	415.3
75°	198.5	231.8	291.0	324.3	335.5
77.5°	155.7	187.3	239.1	259.6	274.4
80°	116.8	144.5	181.5	194.6	196.4
82.5°	79.6	103.9	126.2	128.0	126.2
85°	48.2	61.1	68.6	64.7	61.1
87.5°	22.4	24.1	22.4	14.8	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)