

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: P798039

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P259100)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-SQP-UNV-LOW-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

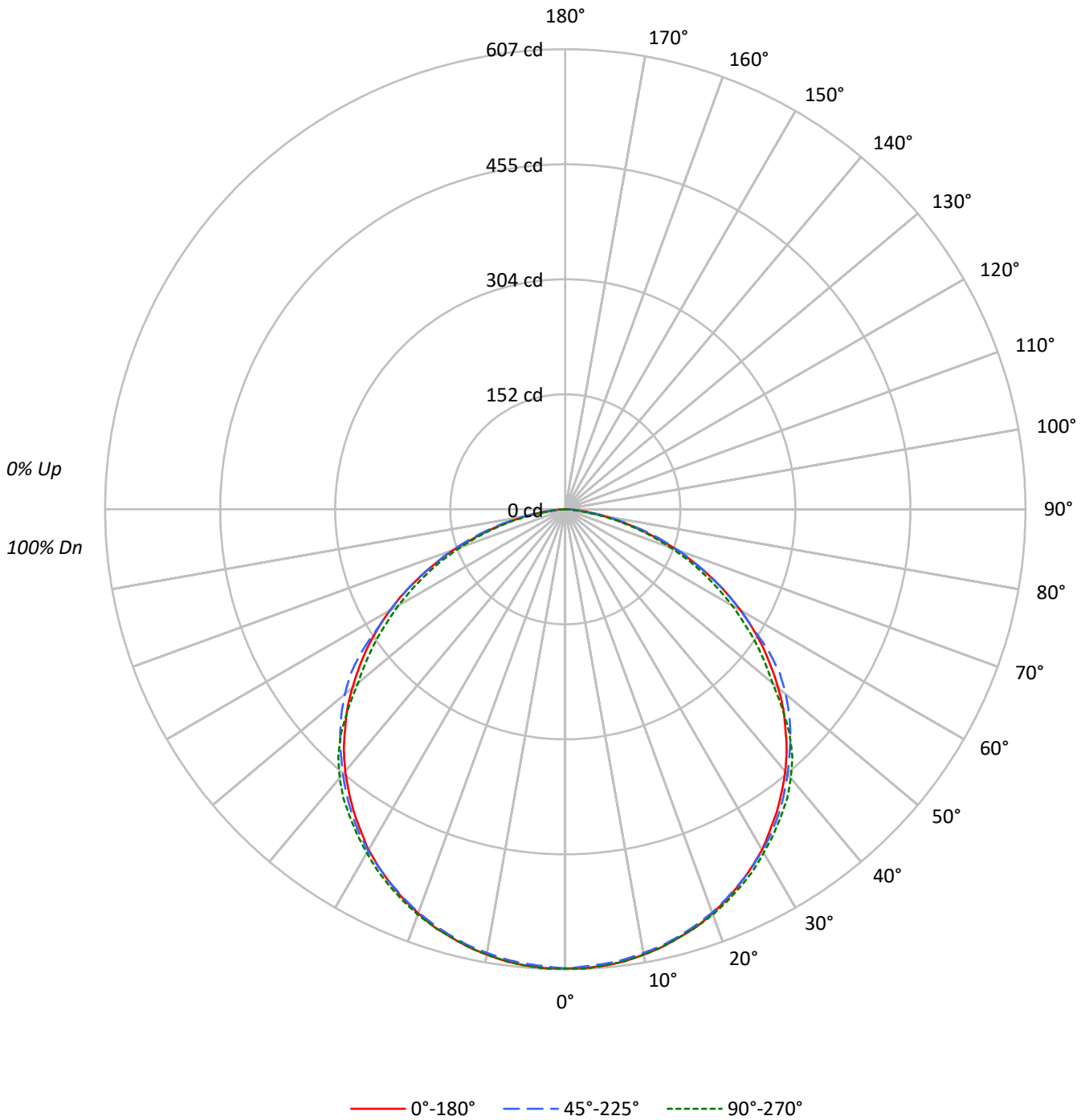
Lumens per Lamp: N/A
Luminaire Lumens: 1726.8 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	65	88	78	71	65	75	69	64	73	67	63	70	65	62	62	62	62	59
4	83	71	62	55	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	47	60	53	47	58	52	46	56	50	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1630	1630	1630
5°	1632	1626	1632
10°	1630	1624	1630
15°	1628	1623	1628
20°	1625	1621	1630
25°	1619	1617	1629
30°	1612	1616	1626
35°	1599	1612	1627
40°	1586	1603	1625
45°	1563	1598	1592
50°	1535	1589	1494
55°	1496	1539	1438
60°	1439	1436	1370
65°	1348	1356	1281
70°	1238	1252	1160
75°	1040	1089	991
80°	826	843	697
85°	543	469	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 1612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.3
10°-20°	164.9	9.6
20°-30°	251.9	14.6
30°-40°	307.3	17.8
40°-50°	321.3	18.6
50°-60°	284.5	16.5
60°-70°	209.5	12.1
70°-80°	108.4	6.3
80°-90°	21.6	1.2
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°	474.2	27.5
0°-40°	781.5	45.3
0°-60°	1387.3	80.3
0°-90°	1726.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1726.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	604	604	602	604	604	57
15°	584	584	582	585	584	165
25°	545	545	545	548	549	251
35°	487	488	491	495	495	304
45°	411	414	420	424	418	317
55°	319	325	328	311	306	284
65°	212	225	213	205	201	210
75°	100	107	105	98	95	107
85°	18	19	15	13	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.9	605.9	605.9	605.9	605.9
2.5°	605.9	605.9	603.7	605.9	606.6
5°	604.3	604.3	601.9	604.3	604.3
7.5°	601.4	600.7	599.0	601.4	601.4
10°	596.6	596.6	594.3	597.2	596.6
12.5°	591.4	590.8	589.6	591.9	591.4
15°	584.3	584.3	582.5	584.9	584.3
17.5°	577.3	576.7	574.9	577.3	577.3
20°	567.3	566.8	566.2	568.6	569.1
22.5°	556.8	556.2	555.7	559.1	559.1
25°	545.2	545.2	544.6	548.1	548.6
27.5°	532.3	532.3	532.9	537.6	537.0
30°	518.9	518.9	520.0	523.4	523.4
32.5°	502.4	503.7	506.0	510.0	510.0
35°	486.6	487.9	490.8	495.4	495.4
37.5°	469.1	470.9	473.8	479.6	480.8
40°	451.5	452.7	456.2	462.7	462.7
42.5°	432.3	433.4	438.1	444.6	443.3
45°	410.7	414.1	419.9	423.5	418.2
47.5°	390.2	392.4	400.7	396.6	387.8
50°	366.7	371.4	379.5	365.0	356.9
52.5°	342.7	348.0	356.9	336.4	331.7
55°	318.8	325.2	328.1	311.2	306.5
57.5°	293.1	300.1	294.2	284.2	279.6
60°	267.3	275.5	266.8	257.4	254.5
62.5°	240.3	249.8	239.8	231.6	227.5
65°	211.7	224.6	212.9	204.8	201.2
67.5°	183.6	197.2	184.9	177.8	175.5
70°	157.3	164.9	159.1	152.1	147.4
72.5°	125.8	133.4	132.1	124.5	121.6
75°	100.0	107.1	104.7	98.2	95.3
77.5°	74.3	81.9	79.6	72.0	70.7
80°	53.3	58.5	54.4	47.3	45.0
82.5°	33.3	37.5	32.1	26.8	25.7
85°	17.6	18.7	15.2	13.4	12.9
87.5°	5.8	6.4	6.4	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)