

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: P798389

Luminaire Tested: 22CZSB-SCT3-SQP-UNV-MID-3000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSB-SCT3-SQP-UNV-MID-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

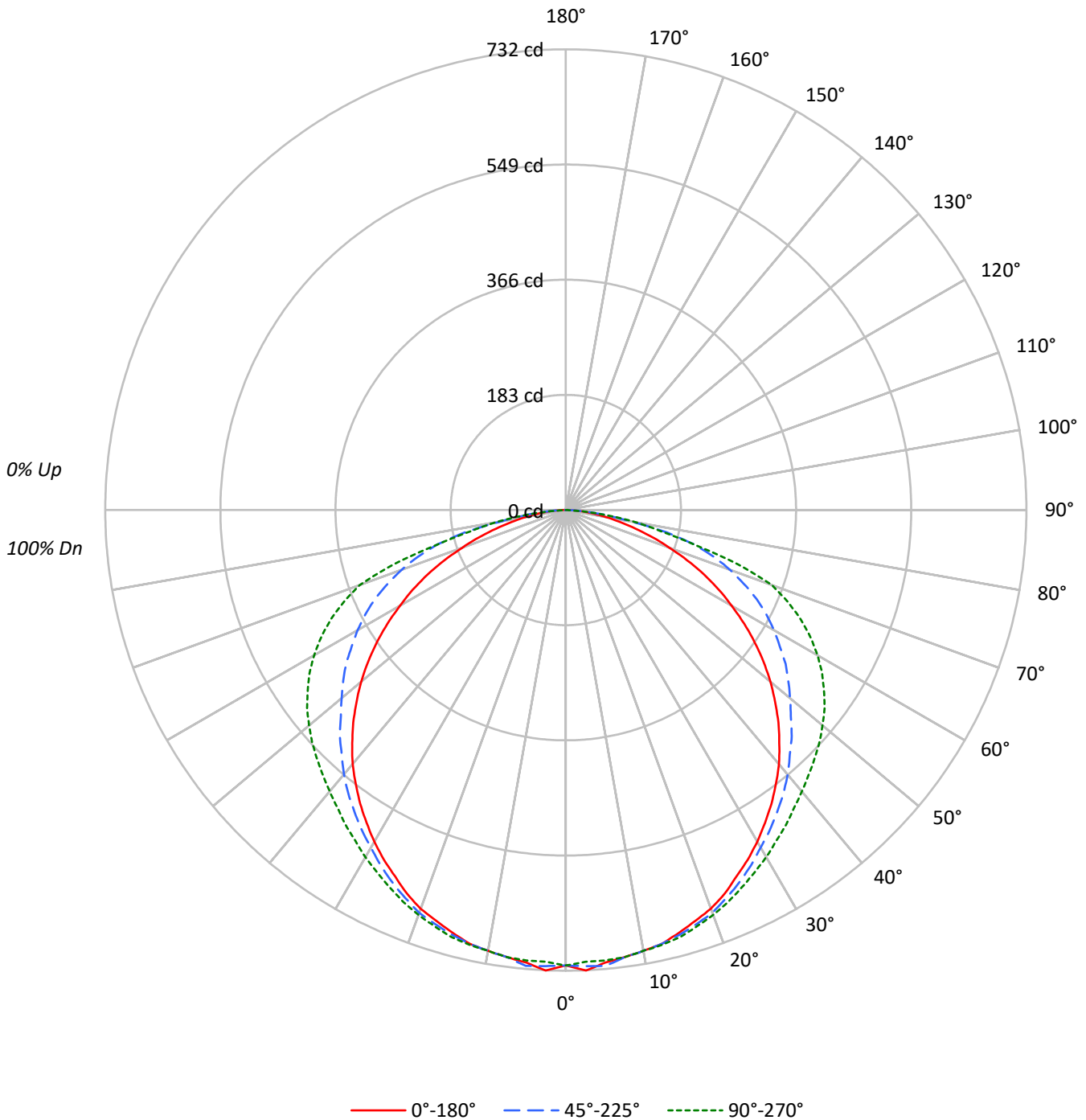
Lumens per Lamp: N/A
Luminaire Lumens: 2278.1 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.8
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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	70	70	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	58	58	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	50	50	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	43	43	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	29	29	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	27	27	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1947	1947	1947
5°	1950	1964	1940
10°	1943	1943	1943
15°	1937	1947	1957
20°	1930	1950	1960
25°	1907	1938	1965
30°	1891	1924	1979
35°	1872	1924	2005
40°	1852	1927	2050
45°	1818	1932	2128
50°	1777	1948	2230
55°	1719	2000	2349
60°	1637	2056	2485
65°	1543	2130	2625
70°	1378	2186	2743
75°	1195	2189	2172
80°	1013	1618	1754
85°	874	1093	985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.0
10°-20°	197.3	8.7
20°-30°	300.7	13.2
30°-40°	367.9	16.1
40°-50°	395.8	17.4
50°-60°	383.4	16.8
60°-70°	324.8	14.3
70°-80°	196.3	8.6
80°-90°	43.2	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°	566.7	24.9
0°-40°	934.6	41.0
0°-60°	1713.8	75.2
0°-90°	2278.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	722	722	727	724	718	69
15°	695	697	699	701	702	196
25°	642	646	653	658	662	296
35°	570	573	586	602	610	356
45°	478	486	508	540	559	368
55°	366	382	426	476	501	327
65°	242	269	334	388	412	239
75°	115	156	210	214	209	124
85°	28	34	35	34	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.6	723.6	723.6	723.6	723.6
2.5°	732.4	730.7	725.3	721.8	718.3
5°	721.8	721.8	727.1	723.6	718.3
7.5°	716.5	716.5	716.5	725.3	716.5
10°	711.2	712.8	711.2	718.3	711.2
12.5°	705.9	705.9	705.9	707.7	707.7
15°	695.3	697.0	698.8	700.6	702.4
17.5°	684.5	686.5	690.0	691.7	693.5
20°	674.1	675.8	681.1	681.1	684.5
22.5°	659.9	659.9	667.0	668.7	674.1
25°	642.2	645.8	652.8	658.2	661.7
27.5°	626.3	629.9	636.9	644.0	649.3
30°	608.6	612.0	619.2	629.9	636.9
32.5°	589.2	592.7	603.3	615.7	622.8
35°	569.7	573.3	585.6	601.6	610.4
37.5°	548.5	553.8	567.9	585.6	596.2
40°	527.1	532.6	548.5	567.9	583.7
42.5°	502.3	509.4	527.1	553.8	571.3
45°	477.7	486.4	507.8	539.6	559.1
47.5°	451.2	459.9	484.8	525.5	546.7
50°	424.5	435.3	465.2	509.4	532.6
52.5°	396.2	407.0	445.7	493.5	518.4
55°	366.3	382.0	426.3	476.0	500.7
57.5°	336.1	353.9	403.3	456.5	483.0
60°	304.2	325.4	382.0	435.3	461.8
62.5°	274.2	297.1	359.2	412.3	438.6
65°	242.3	268.8	334.5	387.5	412.3
67.5°	208.9	242.3	306.2	357.3	382.0
70°	175.1	214.0	277.9	325.4	348.6
72.5°	145.2	185.7	245.9	286.7	286.7
75°	114.9	155.6	210.5	214.0	208.9
77.5°	88.5	127.4	164.5	150.3	153.9
80°	65.4	97.3	104.4	109.7	113.2
82.5°	44.2	65.4	67.4	70.8	70.8
85°	28.3	33.6	35.4	33.6	31.9
87.5°	12.4	14.1	10.8	7.1	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)