

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: P798038

Luminaire Tested: 14CZSB-SCT3-SQP-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798038
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-HIGH-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

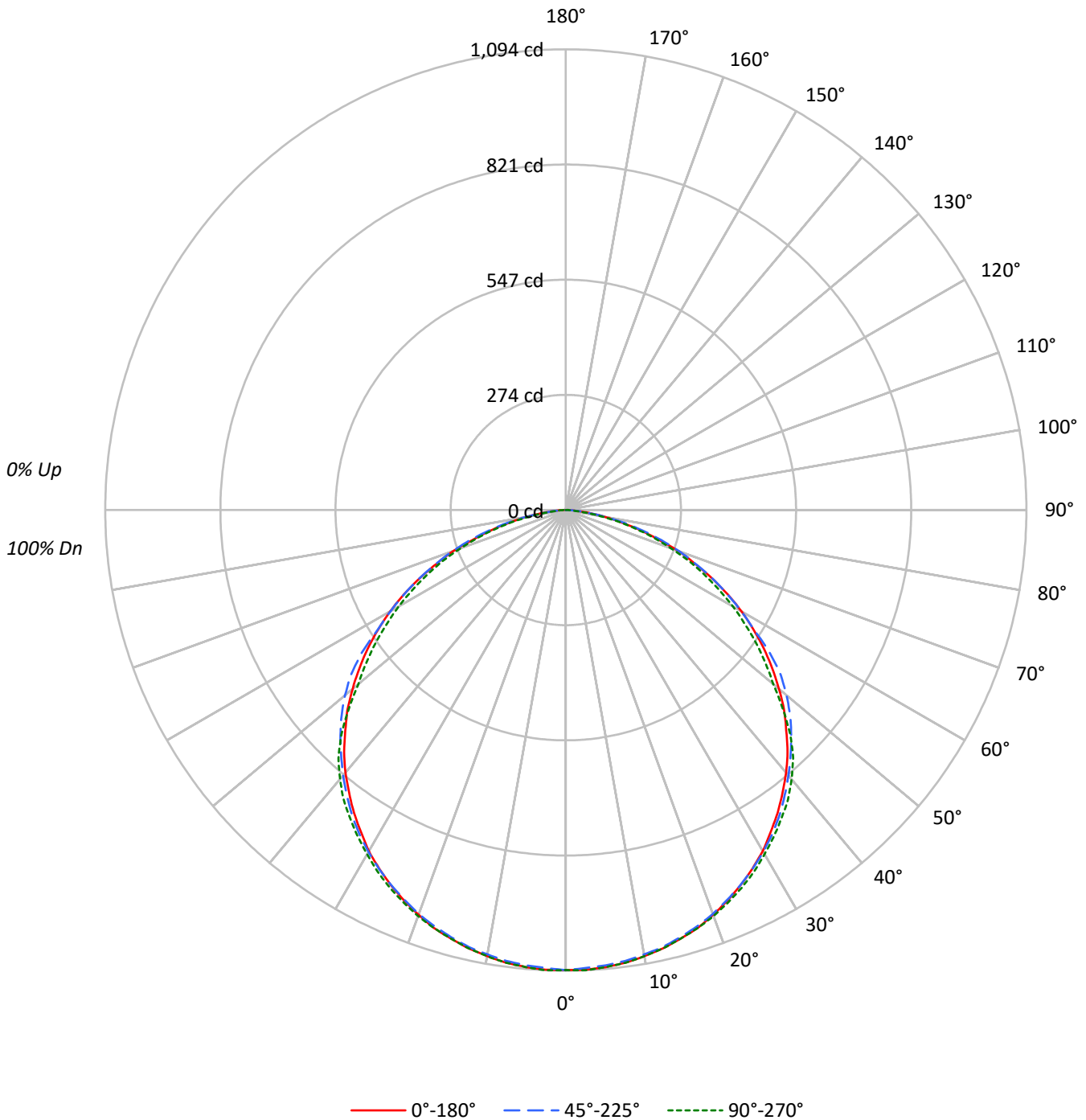
Lumens per Lamp: N/A
Luminaire Lumens: 3113.5 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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	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°	2940	2940	2940
5°	2943	2932	2943
10°	2940	2928	2940
15°	2935	2926	2935
20°	2929	2924	2938
25°	2919	2916	2937
30°	2907	2913	2933
35°	2882	2907	2934
40°	2860	2890	2931
45°	2818	2882	2869
50°	2768	2865	2694
55°	2697	2775	2593
60°	2594	2589	2469
65°	2430	2445	2310
70°	2232	2257	2090
75°	1876	1964	1787
80°	1489	1519	1257
85°	979	846	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2906 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.3
10°-20°	297.4	9.6
20°-30°	454.1	14.6
30°-40°	554.1	17.8
40°-50°	579.4	18.6
50°-60°	512.9	16.5
60°-70°	377.7	12.1
70°-80°	195.5	6.3
80°-90°	38.9	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°	855.0	27.5
0°-40°	1409.0	45.3
0°-60°	2501.3	80.3
0°-90°	3113.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3113.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1090	1090	1085	1090	1090	104
15°	1054	1054	1050	1055	1054	298
25°	983	983	982	988	989	453
35°	877	880	885	893	893	549
45°	740	747	757	764	754	572
55°	575	586	592	561	553	513
65°	382	405	384	369	363	378
75°	180	193	189	177	172	193
85°	32	34	27	24	23	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.5	1092.5	1092.5	1092.5	1092.5
2.5°	1092.5	1092.5	1088.5	1092.5	1093.8
5°	1089.5	1089.5	1085.3	1089.5	1089.5
7.5°	1084.3	1083.0	1080.0	1084.3	1084.3
10°	1075.8	1075.8	1071.6	1076.8	1075.8
12.5°	1066.3	1065.3	1063.1	1067.3	1066.3
15°	1053.6	1053.6	1050.3	1054.6	1053.6
17.5°	1040.9	1039.9	1036.6	1040.9	1040.9
20°	1022.9	1021.9	1020.9	1025.1	1026.1
22.5°	1003.9	1002.9	1001.9	1008.2	1008.2
25°	983.0	983.0	982.0	988.2	989.2
27.5°	959.8	959.8	960.8	969.3	968.3
30°	935.6	935.6	937.6	943.8	943.8
32.5°	905.9	908.1	912.4	919.6	919.6
35°	877.4	879.7	884.9	893.2	893.2
37.5°	845.8	849.0	854.2	864.7	867.0
40°	814.1	816.3	822.6	834.3	834.3
42.5°	779.4	781.4	789.9	801.6	799.4
45°	740.5	746.7	757.2	763.7	754.0
47.5°	703.6	707.5	722.5	715.0	699.3
50°	661.1	669.6	684.3	658.1	643.4
52.5°	618.0	627.5	643.4	606.5	598.0
55°	574.8	586.3	591.5	561.1	552.6
57.5°	528.4	541.1	530.4	512.4	504.2
60°	482.0	496.7	481.0	464.0	458.8
62.5°	433.4	450.3	432.4	417.6	410.2
65°	381.7	404.9	384.0	369.2	362.8
67.5°	331.1	355.5	333.3	320.6	316.4
70°	283.7	297.4	286.9	274.2	265.7
72.5°	226.8	240.5	238.3	224.5	219.3
75°	180.4	193.1	188.9	177.1	171.9
77.5°	134.0	147.7	143.5	129.7	127.5
80°	96.1	105.5	98.0	85.3	81.1
82.5°	60.1	67.6	57.9	48.4	46.4
85°	31.7	33.7	27.4	24.2	23.2
87.5°	10.5	11.5	11.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)