

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: P798036

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798036
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-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

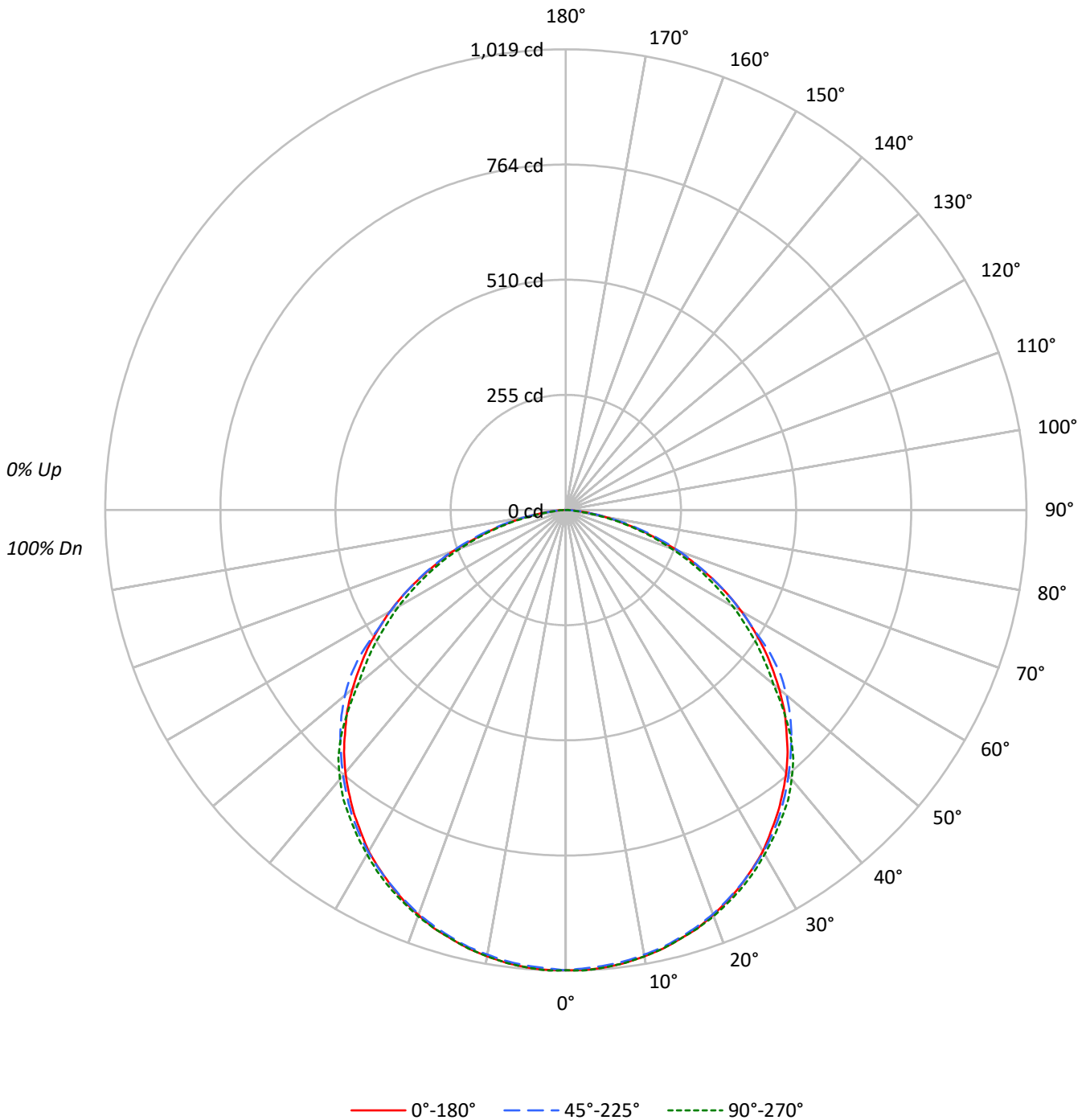
Lumens per Lamp: N/A
Luminaire Lumens: 2901.3 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	2739	2739	2739
5°	2742	2732	2742
10°	2739	2728	2739
15°	2735	2727	2735
20°	2730	2724	2738
25°	2720	2717	2737
30°	2709	2715	2733
35°	2686	2709	2734
40°	2665	2693	2731
45°	2626	2685	2673
50°	2579	2670	2510
55°	2513	2586	2416
60°	2417	2412	2301
65°	2265	2278	2152
70°	2079	2103	1948
75°	1748	1830	1666
80°	1387	1416	1172
85°	911	790	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 2708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.3
10°-20°	277.1	9.6
20°-30°	423.2	14.6
30°-40°	516.3	17.8
40°-50°	539.9	18.6
50°-60°	477.9	16.5
60°-70°	352.0	12.1
70°-80°	182.2	6.3
80°-90°	36.3	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°	796.7	27.5
0°-40°	1313.0	45.3
0°-60°	2330.8	80.3
0°-90°	2901.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1015	1015	1011	1015	1015	97
15°	982	982	979	983	982	277
25°	916	916	915	921	922	422
35°	818	820	825	832	832	511
45°	690	696	706	712	702	533
55°	536	546	551	523	515	478
65°	356	377	358	344	338	352
75°	168	180	176	165	160	179
85°	30	31	26	23	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1018.0	1018.0	1014.3	1018.0	1019.2
5°	1015.2	1015.2	1011.3	1015.2	1015.2
7.5°	1010.3	1009.2	1006.4	1010.3	1010.3
10°	1002.4	1002.4	998.5	1003.4	1002.4
12.5°	993.6	992.7	990.6	994.5	993.6
15°	981.7	981.7	978.7	982.7	981.7
17.5°	969.9	969.0	965.9	969.9	969.9
20°	953.2	952.2	951.3	955.2	956.2
22.5°	935.5	934.6	933.6	939.4	939.4
25°	916.0	916.0	915.0	920.8	921.8
27.5°	894.3	894.3	895.3	903.2	902.2
30°	871.8	871.8	873.6	879.5	879.5
32.5°	844.1	846.2	850.2	856.9	856.9
35°	817.6	819.7	824.6	832.3	832.3
37.5°	788.1	791.1	796.0	805.8	807.9
40°	758.6	760.7	766.5	777.4	777.4
42.5°	726.3	728.1	736.0	746.9	744.9
45°	690.0	695.8	705.6	711.6	702.5
47.5°	655.6	659.3	673.3	666.3	651.6
50°	616.1	624.0	637.7	613.3	599.6
52.5°	575.8	584.7	599.6	565.1	557.2
55°	535.6	546.3	551.2	522.8	514.9
57.5°	492.4	504.2	494.2	477.5	469.8
60°	449.1	462.9	448.2	432.4	427.5
62.5°	403.8	419.6	402.9	389.2	382.2
65°	355.7	377.3	357.8	344.1	338.0
67.5°	308.5	331.3	310.6	298.7	294.8
70°	264.3	277.1	267.3	255.5	247.6
72.5°	211.3	224.1	222.0	209.2	204.3
75°	168.1	179.9	176.0	165.1	160.2
77.5°	124.8	137.6	133.7	120.9	118.8
80°	89.5	98.3	91.4	79.5	75.6
82.5°	56.0	63.0	53.9	45.1	43.2
85°	29.5	31.4	25.6	22.6	21.6
87.5°	9.8	10.7	10.7	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)