

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: P798037

Luminaire Tested: 14CZSB-SCT3-SQP-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798037
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-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

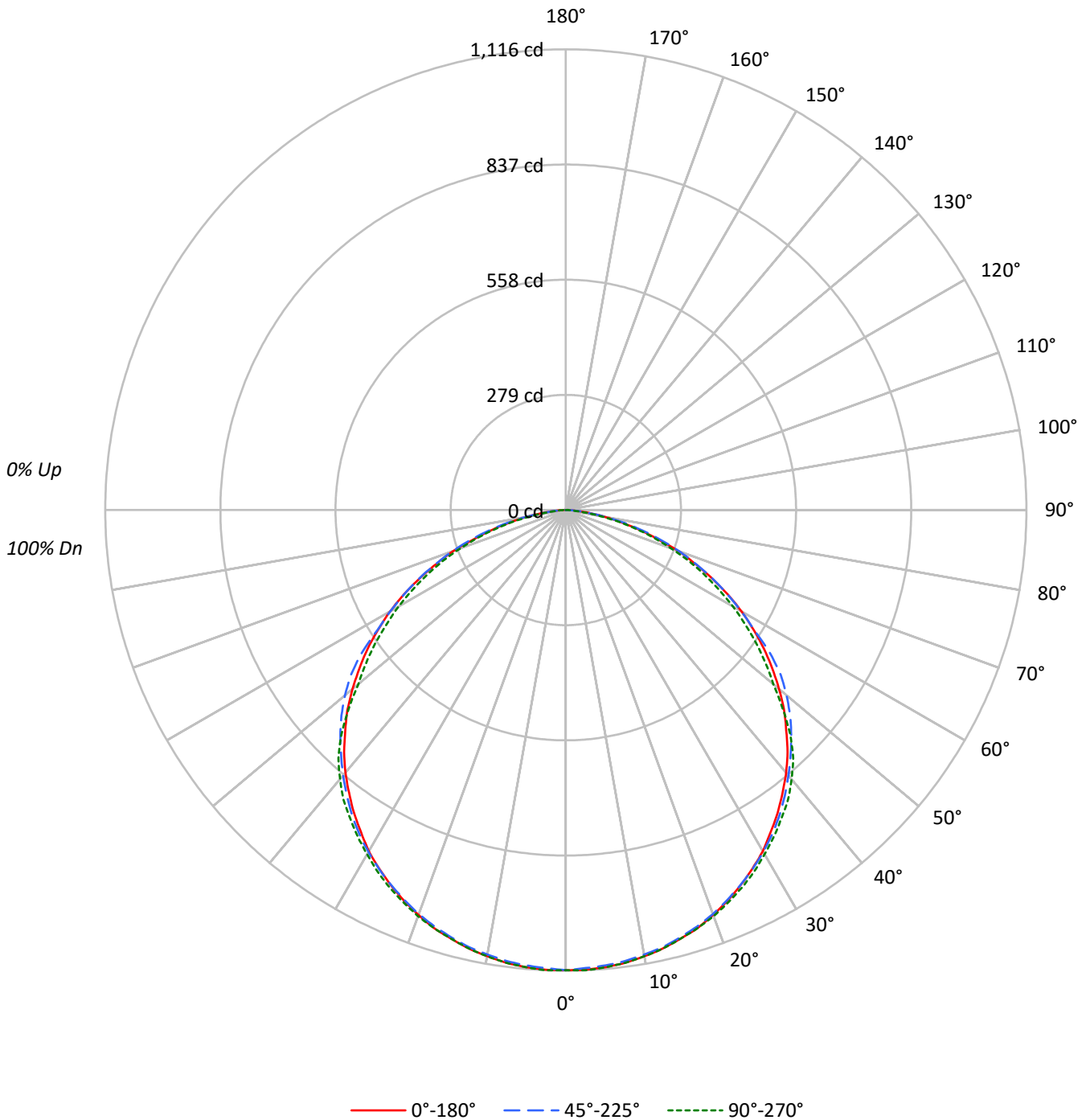
Lumens per Lamp: N/A
Luminaire Lumens: 3176.8 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
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°	3000	3000	3000
5°	3003	2991	3003
10°	2999	2987	2999
15°	2995	2986	2995
20°	2989	2983	2998
25°	2978	2975	2997
30°	2966	2972	2992
35°	2941	2966	2994
40°	2918	2948	2990
45°	2875	2940	2928
50°	2824	2923	2748
55°	2752	2832	2645
60°	2647	2641	2519
65°	2480	2495	2357
70°	2277	2303	2133
75°	1913	2004	1824
80°	1519	1550	1282
85°	997	865	732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2965 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.3
10°-20°	303.4	9.6
20°-30°	463.3	14.6
30°-40°	565.3	17.8
40°-50°	591.2	18.6
50°-60°	523.4	16.5
60°-70°	385.4	12.1
70°-80°	199.5	6.3
80°-90°	39.7	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°	872.4	27.5
0°-40°	1437.7	45.3
0°-60°	2552.2	80.3
0°-90°	3176.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1112	1112	1107	1112	1112	106
15°	1075	1075	1072	1076	1075	304
25°	1003	1003	1002	1008	1009	462
35°	895	898	903	911	911	560
45°	756	762	773	779	769	583
55°	586	598	604	572	564	523
65°	390	413	392	377	370	386
75°	184	197	193	181	175	197
85°	32	34	28	25	24	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.7	1114.7	1114.7	1114.7	1114.7
2.5°	1114.7	1114.7	1110.6	1114.7	1116.0
5°	1111.6	1111.6	1107.3	1111.6	1111.6
7.5°	1106.3	1105.0	1102.0	1106.3	1106.3
10°	1097.6	1097.6	1093.3	1098.7	1097.6
12.5°	1088.0	1087.0	1084.7	1089.0	1088.0
15°	1075.0	1075.0	1071.7	1076.0	1075.0
17.5°	1062.0	1061.0	1057.7	1062.0	1062.0
20°	1043.7	1042.7	1041.6	1046.0	1047.0
22.5°	1024.3	1023.3	1022.3	1028.7	1028.7
25°	1002.9	1002.9	1001.9	1008.3	1009.3
27.5°	979.3	979.3	980.3	988.9	987.9
30°	954.6	954.6	956.6	963.0	963.0
32.5°	924.3	926.6	930.9	938.3	938.3
35°	895.3	897.6	902.9	911.3	911.3
37.5°	862.9	866.3	871.6	882.3	884.6
40°	830.6	832.9	839.3	851.2	851.2
42.5°	795.2	797.3	805.9	817.9	815.6
45°	755.5	761.9	772.6	779.2	769.3
47.5°	717.8	721.9	737.2	729.6	713.5
50°	674.6	683.2	698.2	671.5	656.5
52.5°	630.5	640.2	656.5	618.8	610.2
55°	586.5	598.2	603.6	572.5	563.8
57.5°	539.1	552.1	541.2	522.9	514.5
60°	491.8	506.8	490.8	473.5	468.1
62.5°	442.2	459.5	441.1	426.1	418.5
65°	389.5	413.1	391.8	376.7	370.1
67.5°	337.8	362.7	340.1	327.1	322.8
70°	289.4	303.4	292.7	279.8	271.1
72.5°	231.4	245.4	243.1	229.1	223.8
75°	184.0	197.0	192.7	180.7	175.4
77.5°	136.7	150.7	146.4	132.4	130.1
80°	98.0	107.7	100.0	87.1	82.7
82.5°	61.3	69.0	59.1	49.4	47.3
85°	32.3	34.4	28.0	24.7	23.7
87.5°	10.7	11.7	11.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)