

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: P798021

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345154)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-HRP-UNV-LOW-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

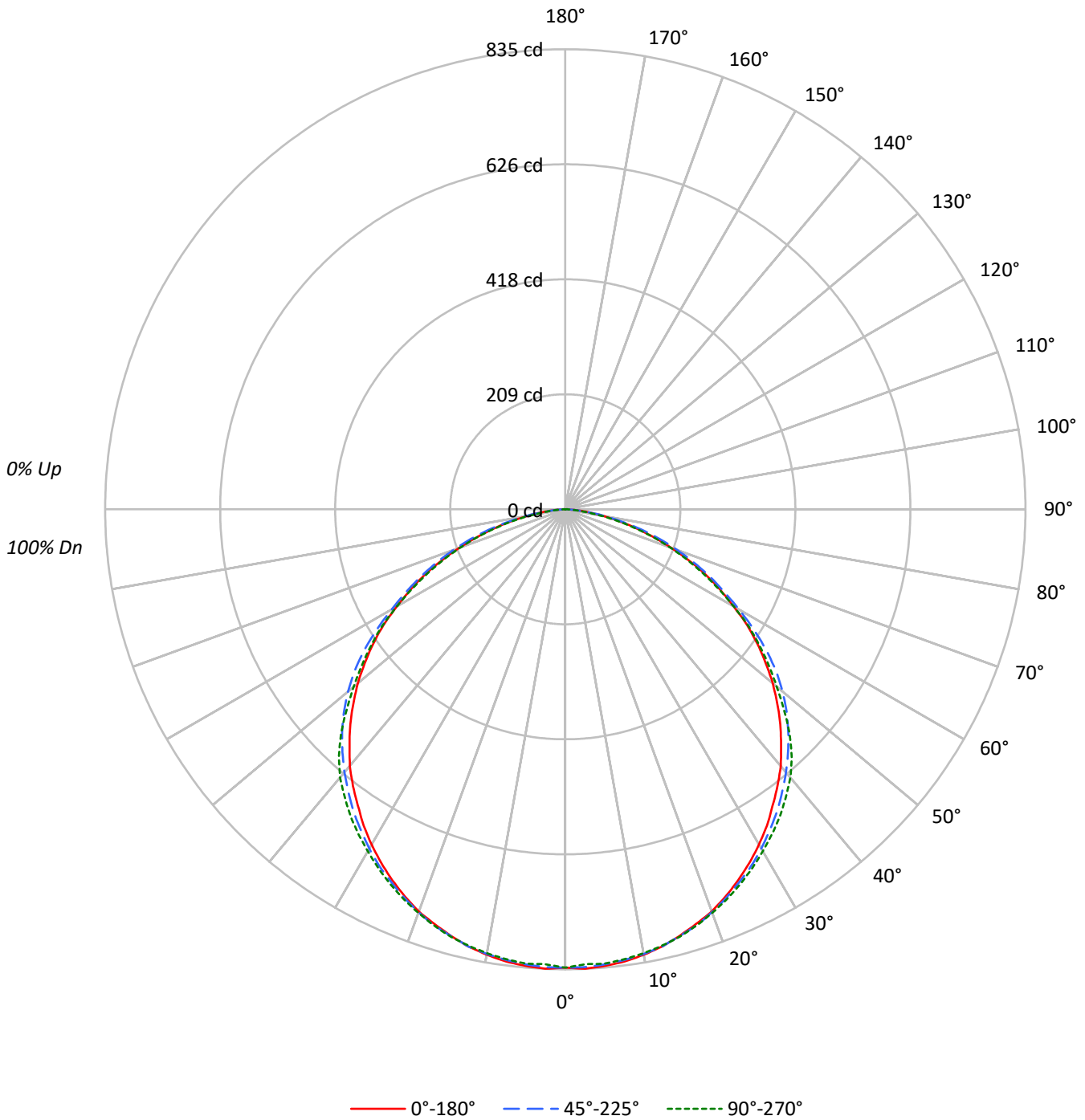
Lumens per Lamp: N/A
Luminaire Lumens: 2350.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	66	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	51	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	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	31	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2239	2239	2239
5°	2247	2240	2236
10°	2243	2239	2235
15°	2233	2233	2237
20°	2225	2229	2233
25°	2205	2217	2230
30°	2184	2210	2227
35°	2155	2200	2232
40°	2136	2189	2233
45°	2100	2178	2189
50°	2057	2155	2097
55°	1996	2087	2016
60°	1899	1957	1899
65°	1792	1844	1757
70°	1609	1696	1588
75°	1384	1499	1355
80°	1085	1170	978
85°	766	679	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2194 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.3
10°-20°	226.2	9.6
20°-30°	343.6	14.6
30°-40°	417.4	17.8
40°-50°	436.0	18.5
50°-60°	387.7	16.5
60°-70°	283.0	12.0
70°-80°	147.6	6.3
80°-90°	30.5	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°	648.5	27.6
0°-40°	1065.9	45.3
0°-60°	1889.7	80.4
0°-90°	2350.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	832	826	829	828	828	79
15°	802	798	802	803	803	226
25°	743	740	747	748	751	342
35°	656	656	670	674	680	411
45°	552	553	572	576	575	425
55°	426	434	445	432	430	380
65°	282	296	290	282	276	277
75°	133	146	144	134	130	142
85°	25	27	22	19	19	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.9	831.9	831.9	831.9	831.9
2.5°	834.7	829.1	831.9	830.5	826.4
5°	831.9	826.4	829.1	827.7	827.7
7.5°	827.7	822.3	824.9	823.6	823.6
10°	820.9	815.4	819.5	818.1	818.1
12.5°	812.7	807.1	812.7	811.2	811.2
15°	801.6	797.5	801.6	803.1	803.1
17.5°	789.3	786.6	792.1	792.1	792.1
20°	777.0	772.9	778.3	778.3	779.7
22.5°	760.5	756.4	763.3	761.8	766.0
25°	742.7	739.9	746.8	748.1	750.9
27.5°	723.5	722.0	730.3	731.6	734.4
30°	702.8	700.1	711.1	712.4	716.6
32.5°	680.9	680.9	690.5	693.3	698.7
35°	656.1	656.1	669.8	674.0	679.5
37.5°	632.8	632.8	646.5	653.5	657.6
40°	608.1	608.1	623.2	630.0	635.6
42.5°	579.3	580.6	598.5	605.4	608.1
45°	551.9	553.2	572.4	576.5	575.2
47.5°	521.6	525.8	544.9	542.3	538.2
50°	491.4	495.5	514.7	503.8	501.0
52.5°	458.5	465.3	481.8	466.7	465.3
55°	425.5	433.8	444.8	432.4	429.6
57.5°	391.2	402.2	405.0	396.8	394.0
60°	352.8	367.9	363.7	356.9	352.8
62.5°	317.1	330.9	325.4	318.5	314.3
65°	281.5	296.5	289.6	281.5	275.9
67.5°	243.0	260.8	252.6	243.0	238.9
70°	204.5	219.7	215.6	206.0	201.8
72.5°	167.5	181.2	179.9	170.2	166.2
75°	133.1	145.5	144.2	134.5	130.3
77.5°	100.3	112.5	108.5	100.3	96.1
80°	70.0	80.9	75.5	67.2	63.1
82.5°	45.3	50.7	45.3	38.5	35.7
85°	24.8	27.4	22.0	19.2	19.2
87.5°	8.3	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)