

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: P798025

Luminaire Tested: 14CZSB-SCT3-HRP-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798025
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-MID-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

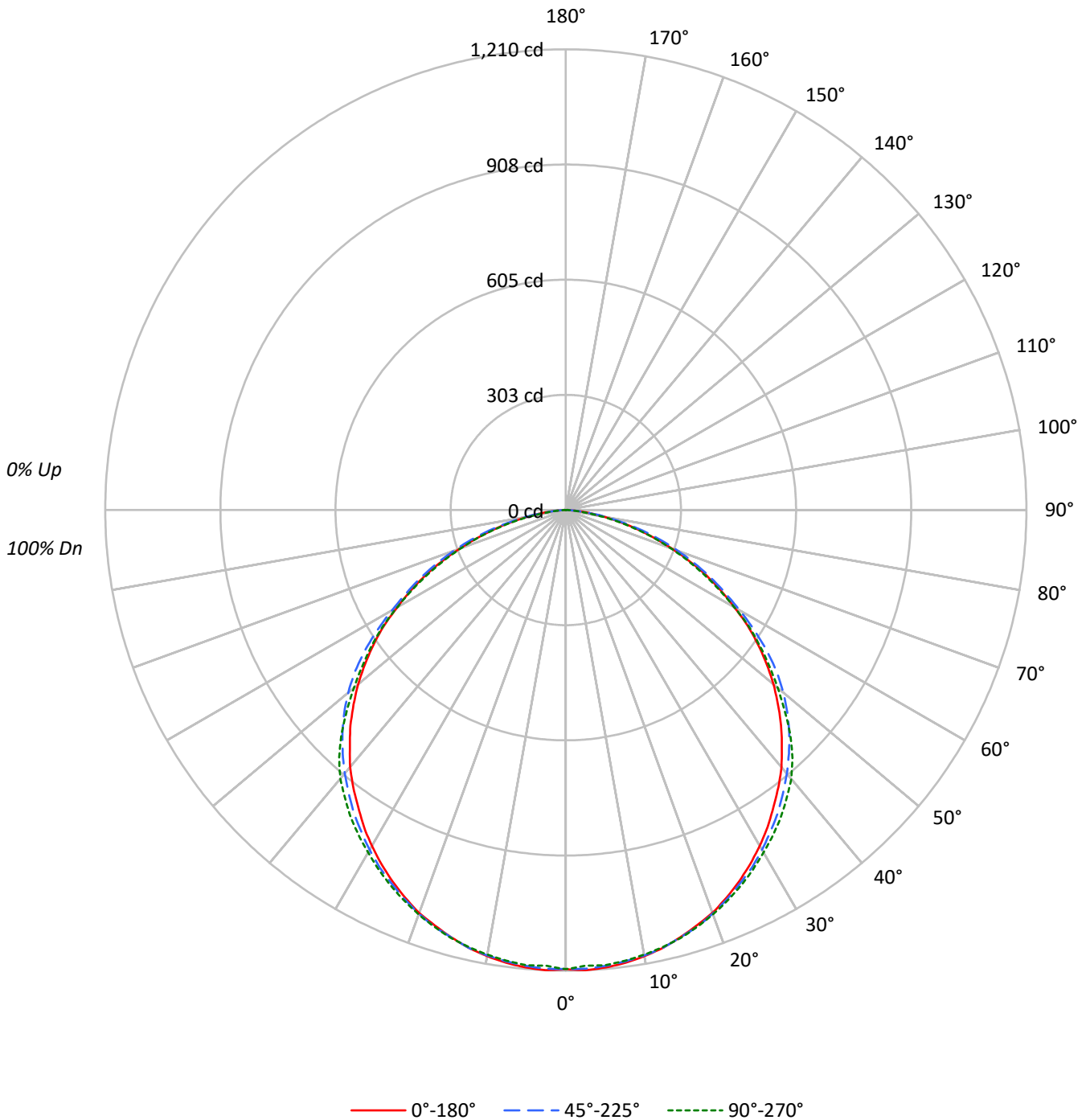
Lumens per Lamp: N/A
Luminaire Lumens: 3407.5 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.5
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				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°	3245	3245	3245
5°	3257	3246	3241
10°	3252	3246	3240
15°	3237	3237	3243
20°	3225	3231	3237
25°	3196	3214	3232
30°	3166	3203	3228
35°	3124	3190	3236
40°	3096	3173	3237
45°	3044	3158	3173
50°	2982	3123	3040
55°	2894	3025	2922
60°	2752	2838	2752
65°	2598	2673	2546
70°	2332	2459	2302
75°	2007	2173	1964
80°	1573	1695	1418
85°	1108	982	858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 3180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.3
10°-20°	327.8	9.6
20°-30°	498.1	14.6
30°-40°	605.0	17.8
40°-50°	632.0	18.5
50°-60°	562.1	16.5
60°-70°	410.2	12.0
70°-80°	214.0	6.3
80°-90°	44.2	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°	940.1	27.6
0°-40°	1545.1	45.3
0°-60°	2739.2	80.4
0°-90°	3407.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1206	1198	1202	1200	1200	115
15°	1162	1156	1162	1164	1164	328
25°	1076	1072	1082	1084	1088	496
35°	951	951	971	977	985	596
45°	800	802	830	836	834	616
55°	617	629	645	627	623	550
65°	408	430	420	408	400	402
75°	193	211	209	195	189	206
85°	36	40	32	28	28	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.8	1205.8	1205.8	1205.8	1205.8
2.5°	1209.9	1201.8	1205.8	1203.9	1197.9
5°	1205.8	1197.9	1201.8	1199.8	1199.8
7.5°	1199.8	1191.9	1195.8	1193.9	1193.9
10°	1190.0	1181.9	1187.9	1185.9	1185.9
12.5°	1178.0	1169.9	1178.0	1175.9	1175.9
15°	1162.0	1156.0	1162.0	1164.1	1164.1
17.5°	1144.1	1140.2	1148.1	1148.1	1148.1
20°	1126.3	1120.3	1128.2	1128.2	1130.2
22.5°	1102.4	1096.4	1106.4	1104.3	1110.3
25°	1076.5	1072.5	1082.5	1084.4	1088.5
27.5°	1048.7	1046.6	1058.6	1060.5	1064.6
30°	1018.8	1014.8	1030.8	1032.7	1038.7
32.5°	987.0	987.0	1000.9	1004.9	1012.8
35°	951.1	951.1	971.0	976.9	985.0
37.5°	917.3	917.3	937.2	947.2	953.2
40°	881.4	881.4	903.4	913.2	921.4
42.5°	839.7	841.6	867.5	877.5	881.4
45°	800.0	801.9	829.7	835.7	833.7
47.5°	756.1	762.1	789.9	786.1	780.1
50°	712.3	718.3	746.1	730.3	726.2
52.5°	664.7	674.5	698.4	676.4	674.5
55°	616.8	628.8	644.8	626.8	622.8
57.5°	567.0	583.0	587.1	575.1	571.1
60°	511.4	533.2	527.3	517.4	511.4
62.5°	459.7	479.6	471.7	461.6	455.7
65°	408.0	429.8	419.8	408.0	399.9
67.5°	352.2	378.1	366.1	352.2	346.2
70°	296.4	318.4	312.5	298.6	292.6
72.5°	242.8	262.7	260.7	246.6	240.9
75°	193.0	210.9	209.0	194.9	188.9
77.5°	145.3	163.1	157.3	145.3	139.3
80°	101.5	117.3	109.4	97.5	91.5
82.5°	65.6	73.5	65.6	55.8	51.7
85°	35.9	39.8	31.8	27.8	27.8
87.5°	12.0	13.9	13.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)