

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: P798044

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798044
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-MID-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

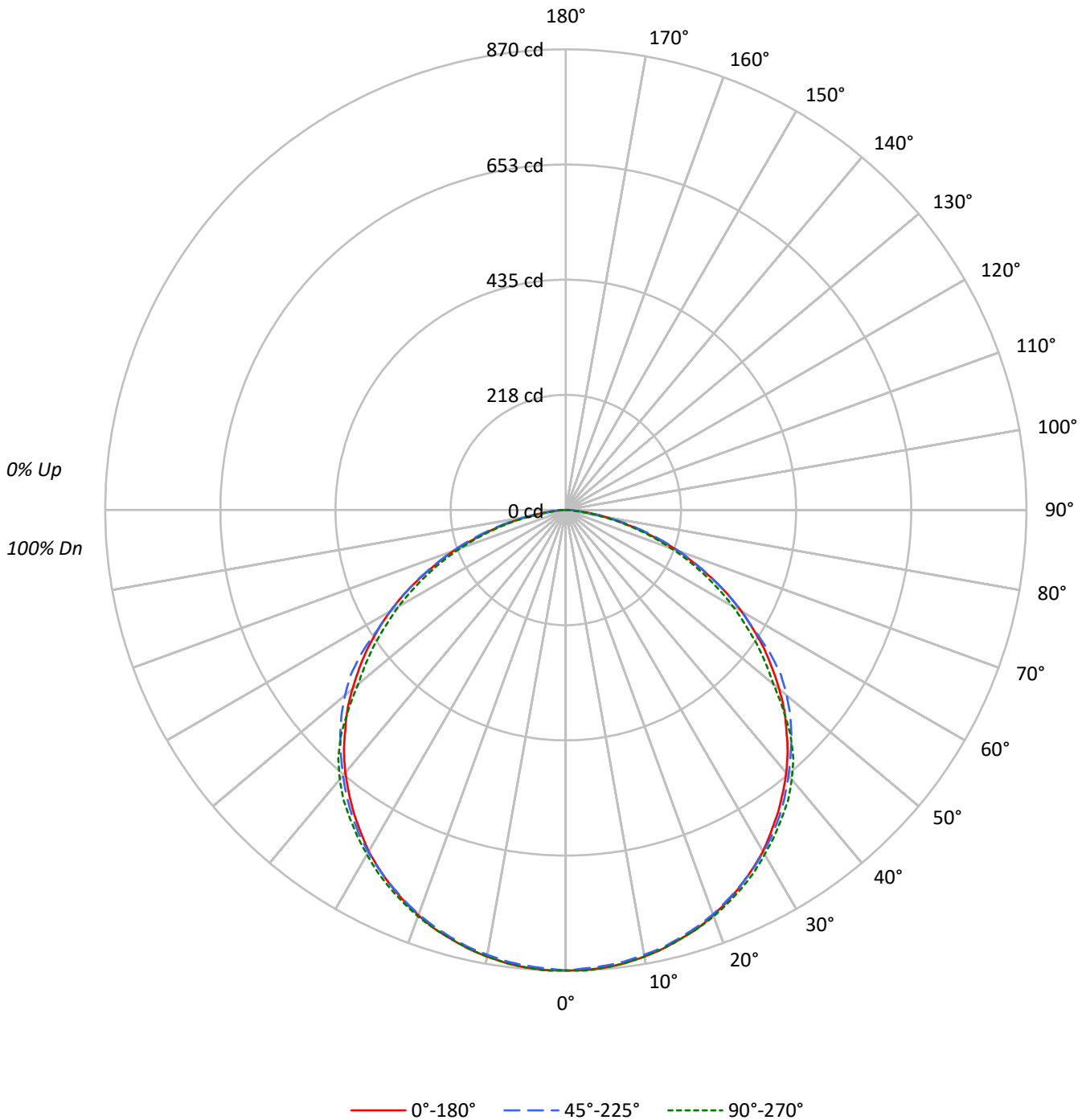
Lumens per Lamp: N/A
Luminaire Lumens: 2477.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
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°	2340	2340	2340
5°	2342	2333	2342
10°	2340	2330	2340
15°	2336	2329	2336
20°	2331	2327	2339
25°	2323	2320	2338
30°	2314	2319	2334
35°	2294	2314	2335
40°	2276	2299	2333
45°	2243	2293	2283
50°	2203	2280	2144
55°	2146	2209	2063
60°	2065	2060	1965
65°	1934	1946	1838
70°	1777	1796	1664
75°	1493	1563	1422
80°	1184	1209	1000
85°	778	673	571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 2313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.3
10°-20°	236.7	9.6
20°-30°	361.4	14.6
30°-40°	440.9	17.8
40°-50°	461.1	18.6
50°-60°	408.2	16.5
60°-70°	300.6	12.1
70°-80°	155.6	6.3
80°-90°	31.0	1.2
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°	680.4	27.5
0°-40°	1121.4	45.3
0°-60°	1990.7	80.3
0°-90°	2477.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	867	867	864	867	867	82
15°	838	838	836	839	838	237
25°	782	782	782	786	787	361
35°	698	700	704	711	711	437
45°	589	594	603	608	600	455
55°	458	467	471	447	440	408
65°	304	322	306	294	289	301
75°	144	154	150	141	137	153
85°	25	27	22	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.5	869.5	869.5	869.5	869.5
2.5°	869.5	869.5	866.3	869.5	870.5
5°	867.1	867.1	863.7	867.1	867.1
7.5°	862.9	861.9	859.5	862.9	862.9
10°	856.2	856.2	852.8	857.0	856.2
12.5°	848.6	847.8	846.0	849.4	848.6
15°	838.5	838.5	835.9	839.3	838.5
17.5°	828.4	827.6	825.0	828.4	828.4
20°	814.1	813.3	812.5	815.9	816.7
22.5°	799.0	798.2	797.4	802.4	802.4
25°	782.3	782.3	781.5	786.5	787.3
27.5°	763.8	763.8	764.6	771.4	770.6
30°	744.6	744.6	746.2	751.1	751.1
32.5°	721.0	722.7	726.1	731.9	731.9
35°	698.3	700.1	704.3	710.8	710.8
37.5°	673.1	675.7	679.9	688.2	690.0
40°	647.9	649.7	654.6	664.0	664.0
42.5°	620.3	621.9	628.6	638.0	636.2
45°	589.3	594.3	602.6	607.8	600.0
47.5°	559.9	563.1	575.0	569.1	556.6
50°	526.2	532.9	544.6	523.8	512.1
52.5°	491.8	499.4	512.1	482.7	475.9
55°	457.5	466.6	470.8	446.6	439.8
57.5°	420.5	430.7	422.1	407.8	401.3
60°	383.6	395.3	382.8	369.3	365.1
62.5°	344.9	358.4	344.1	332.4	326.4
65°	303.8	322.3	305.6	293.9	288.7
67.5°	263.5	282.9	265.3	255.1	251.8
70°	225.8	236.7	228.3	218.2	211.5
72.5°	180.5	191.4	189.6	178.7	174.5
75°	143.6	153.7	150.3	141.0	136.8
77.5°	106.6	117.5	114.2	103.2	101.5
80°	76.4	84.0	78.0	67.9	64.5
82.5°	47.9	53.8	46.1	38.5	36.9
85°	25.2	26.8	21.8	19.3	18.5
87.5°	8.3	9.1	9.1	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)