

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: P798042

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798042
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-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

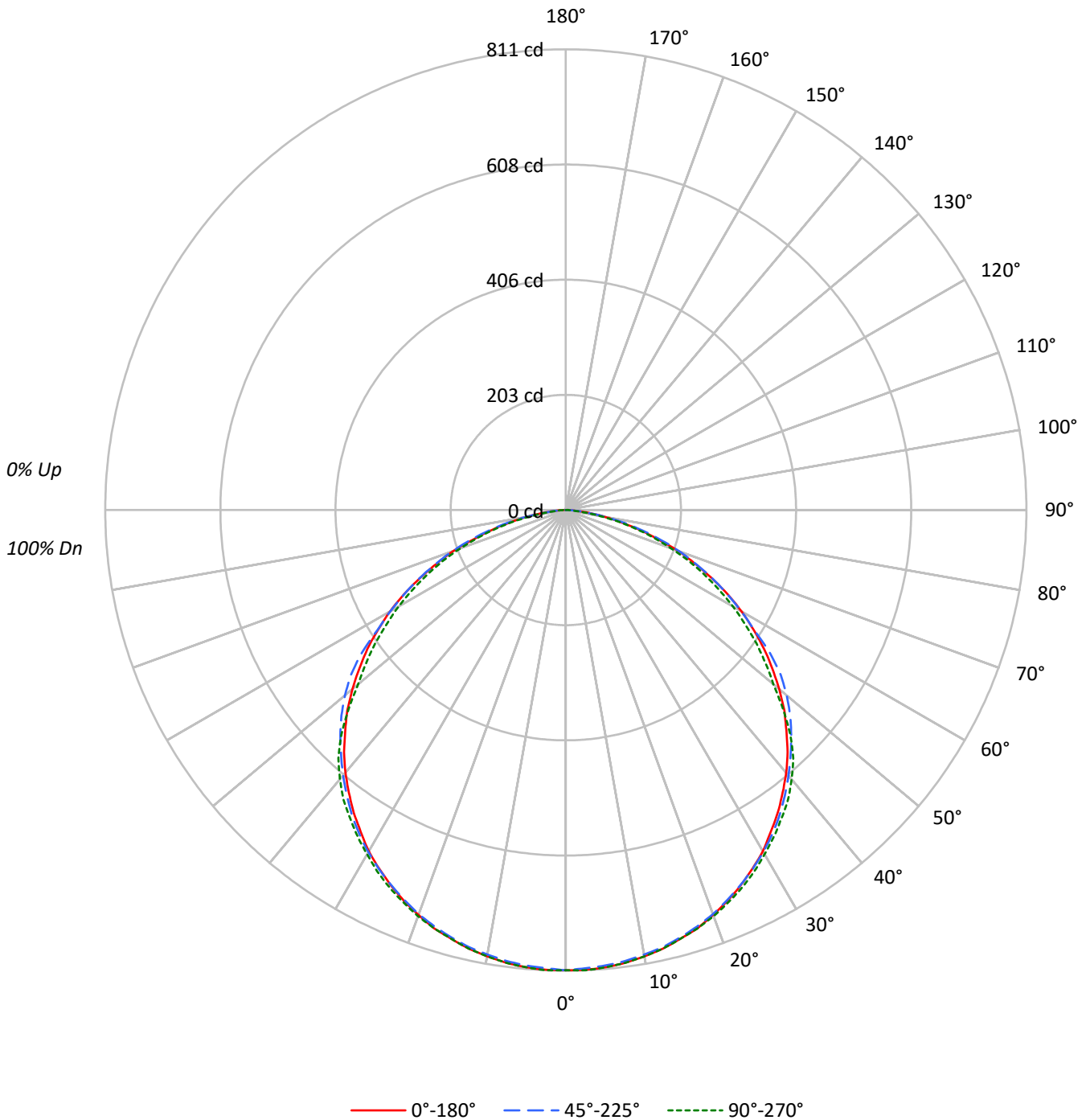
Lumens per Lamp: N/A
Luminaire Lumens: 2308.9 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	2180	2180	2180
5°	2182	2174	2182
10°	2180	2171	2180
15°	2177	2170	2177
20°	2172	2168	2179
25°	2164	2162	2178
30°	2156	2160	2175
35°	2138	2156	2176
40°	2121	2143	2173
45°	2090	2137	2128
50°	2053	2125	1997
55°	2000	2058	1923
60°	1924	1920	1831
65°	1803	1813	1713
70°	1655	1674	1550
75°	1391	1457	1326
80°	1103	1127	931
85°	726	630	531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 2155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.3
10°-20°	220.5	9.6
20°-30°	336.8	14.6
30°-40°	410.9	17.8
40°-50°	429.6	18.6
50°-60°	380.4	16.5
60°-70°	280.1	12.1
70°-80°	145.0	6.3
80°-90°	28.9	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°	634.0	27.5
0°-40°	1044.9	45.3
0°-60°	1854.9	80.3
0°-90°	2308.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	808	808	805	808	808	77
15°	781	781	779	782	781	221
25°	729	729	728	733	734	336
35°	651	652	656	662	662	407
45°	549	554	562	566	559	424
55°	426	435	439	416	410	380
65°	283	300	285	274	269	280
75°	134	143	140	131	128	143
85°	24	25	20	18	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.2	810.2	810.2	810.2	810.2
2.5°	810.2	810.2	807.2	810.2	811.1
5°	807.9	807.9	804.8	807.9	807.9
7.5°	804.0	803.1	800.9	804.0	804.0
10°	797.8	797.8	794.6	798.5	797.8
12.5°	790.7	790.0	788.3	791.5	790.7
15°	781.3	781.3	778.9	782.0	781.3
17.5°	771.9	771.1	768.7	771.9	771.9
20°	758.5	757.8	757.1	760.2	760.9
22.5°	744.5	743.7	743.0	747.6	747.6
25°	728.9	728.9	728.2	732.8	733.6
27.5°	711.7	711.7	712.5	718.8	718.0
30°	693.8	693.8	695.3	699.9	699.9
32.5°	671.8	673.4	676.6	681.9	681.9
35°	650.7	652.3	656.2	662.3	662.3
37.5°	627.2	629.6	633.5	641.2	642.9
40°	603.7	605.3	610.0	618.7	618.7
42.5°	578.0	579.4	585.7	594.4	592.8
45°	549.1	553.7	561.5	566.3	559.1
47.5°	521.7	524.7	535.8	530.2	518.6
50°	490.3	496.6	507.5	488.1	477.1
52.5°	458.3	465.3	477.1	449.8	443.5
55°	426.3	434.8	438.7	416.1	409.8
57.5°	391.8	401.3	393.3	380.0	373.9
60°	357.4	368.4	356.7	344.1	340.2
62.5°	321.4	333.9	320.6	309.7	304.2
65°	283.1	300.3	284.7	273.8	269.0
67.5°	245.5	263.6	247.2	237.7	234.6
70°	210.4	220.5	212.8	203.3	197.0
72.5°	168.2	178.3	176.7	166.5	162.6
75°	133.8	143.2	140.1	131.4	127.5
77.5°	99.3	109.5	106.4	96.2	94.5
80°	71.2	78.3	72.7	63.3	60.1
82.5°	44.6	50.1	42.9	35.9	34.4
85°	23.5	25.0	20.4	17.9	17.2
87.5°	7.8	8.5	8.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)