

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: P798121

Luminaire Tested: 24CZSB-SCT3-SQP-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-SQP-UNV-LOW-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

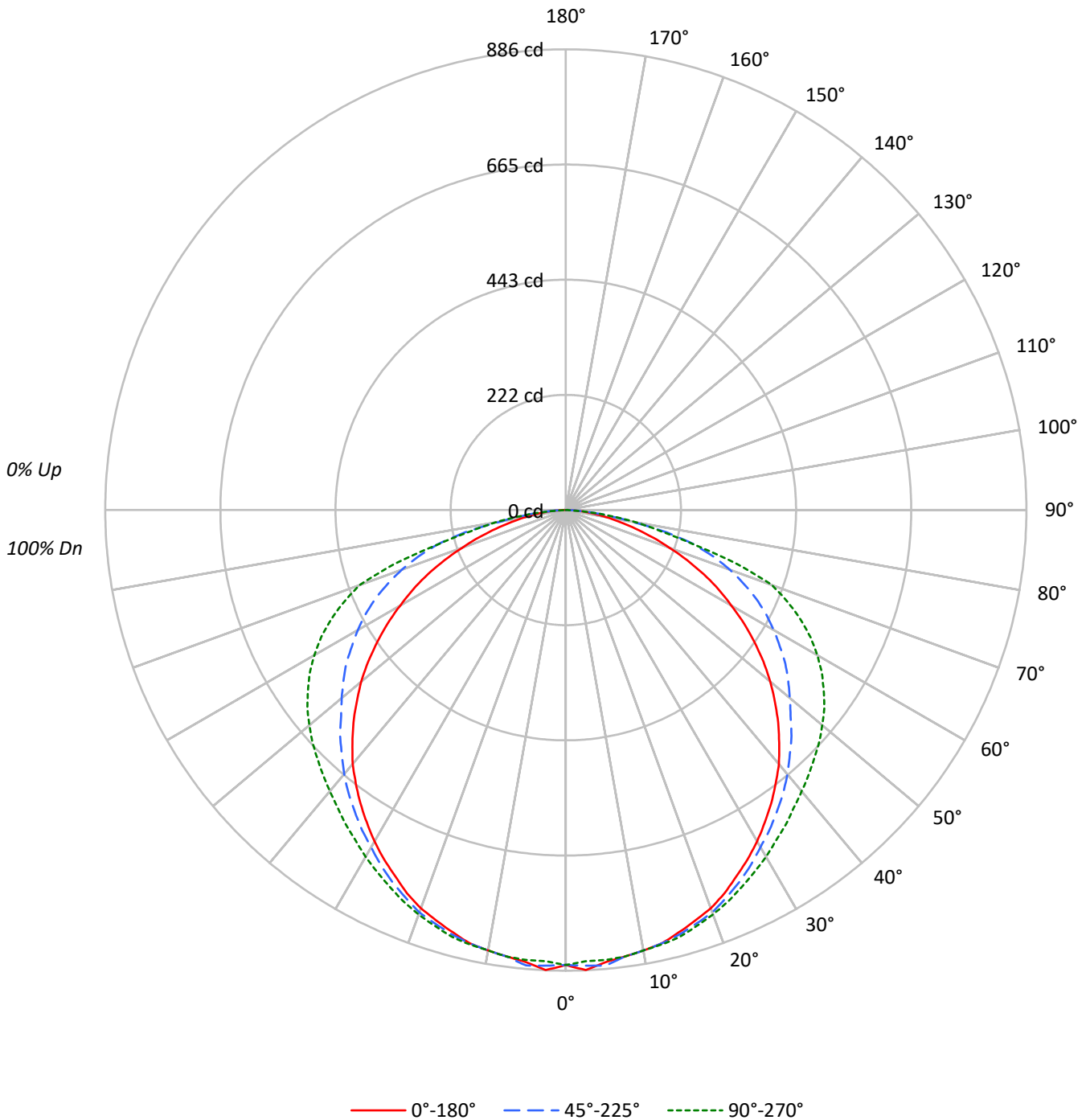
Lumens per Lamp: N/A
Luminaire Lumens: 2754.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	70	70	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	58	58	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	50	50	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	43	43	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	29	29	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	27	27	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1177	1177	1177
5°	1179	1188	1173
10°	1175	1175	1175
15°	1171	1177	1183
20°	1167	1179	1185
25°	1153	1172	1188
30°	1143	1163	1197
35°	1131	1163	1212
40°	1120	1165	1240
45°	1099	1168	1286
50°	1075	1178	1348
55°	1039	1209	1420
60°	990	1244	1503
65°	933	1287	1587
70°	833	1321	1658
75°	723	1323	1313
80°	613	978	1062
85°	530	662	594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 1658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.0
10°-20°	238.6	8.7
20°-30°	363.6	13.2
30°-40°	444.9	16.1
40°-50°	478.7	17.4
50°-60°	463.7	16.8
60°-70°	392.8	14.3
70°-80°	237.4	8.6
80°-90°	52.2	1.9
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°	685.2	24.9
0°-40°	1130.1	41.0
0°-60°	2072.4	75.2
0°-90°	2754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	873	873	879	875	869	83
15°	841	843	845	847	849	237
25°	777	781	789	796	800	358
35°	689	693	708	727	738	431
45°	578	588	614	653	676	445
55°	443	462	516	575	606	396
65°	293	325	404	468	498	289
75°	139	188	254	259	252	149
85°	34	41	43	41	38	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.9	874.9	874.9	874.9	874.9
2.5°	885.6	883.5	877.2	872.9	868.6
5°	872.9	872.9	879.3	874.9	868.6
7.5°	866.3	866.3	866.3	877.2	866.3
10°	860.0	862.2	860.0	868.6	860.0
12.5°	853.6	853.6	853.6	855.7	855.7
15°	840.8	843.0	845.0	847.2	849.4
17.5°	827.9	830.0	834.4	836.4	838.6
20°	815.1	817.1	823.7	823.7	827.9
22.5°	797.9	797.9	806.5	808.7	815.1
25°	776.6	780.8	789.4	795.8	800.1
27.5°	757.3	761.6	770.2	778.8	785.2
30°	735.9	740.3	748.7	761.6	770.2
32.5°	712.4	716.6	729.5	744.5	753.0
35°	688.8	693.2	708.0	727.4	738.1
37.5°	663.3	669.5	686.7	708.0	721.0
40°	637.6	644.0	663.3	686.7	706.0
42.5°	607.5	616.1	637.6	669.5	691.1
45°	577.6	588.4	614.0	652.6	675.9
47.5°	545.5	556.2	586.1	635.4	661.1
50°	513.5	526.3	562.6	616.1	644.0
52.5°	479.2	492.0	539.0	596.9	626.8
55°	442.9	462.1	515.6	575.4	605.5
57.5°	406.4	428.0	487.8	552.0	584.1
60°	367.9	393.7	462.1	526.3	558.4
62.5°	331.6	359.4	434.2	498.4	530.7
65°	293.0	325.3	404.3	468.5	498.4
67.5°	252.5	293.0	370.1	432.2	462.1
70°	211.8	258.9	335.9	393.7	421.4
72.5°	175.5	224.6	297.4	346.6	346.6
75°	139.0	188.3	254.5	258.9	252.5
77.5°	106.9	154.0	199.0	181.8	186.1
80°	79.1	117.7	126.2	132.6	137.0
82.5°	53.5	79.1	81.4	85.6	85.6
85°	34.3	40.6	42.9	40.6	38.5
87.5°	15.0	17.2	12.8	8.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)