

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: P798118

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798118
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-HIGH-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

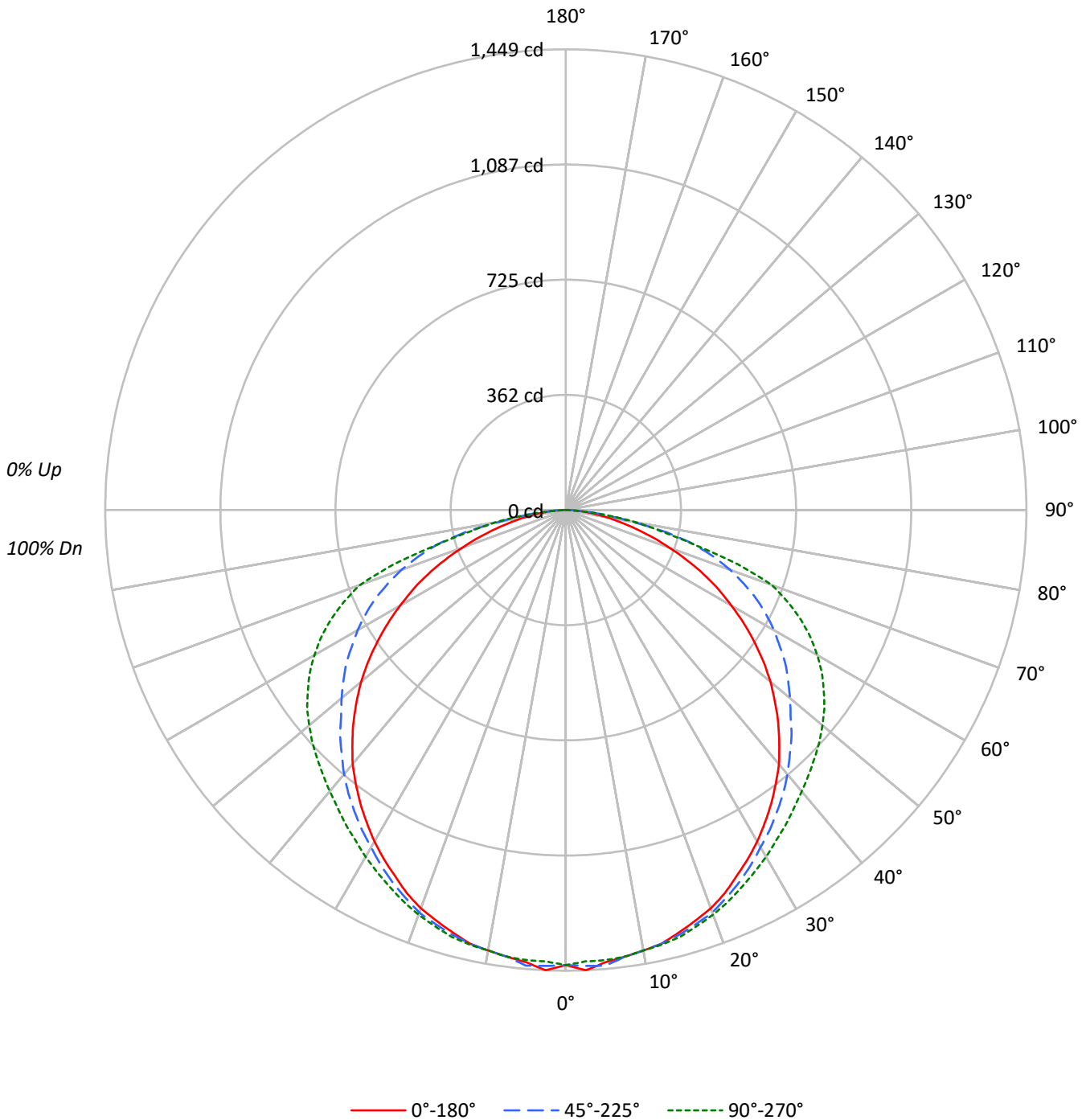
Lumens per Lamp: N/A
Luminaire Lumens: 4506.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.5
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	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°	1926	1926	1926
5°	1929	1943	1919
10°	1922	1922	1922
15°	1916	1926	1936
20°	1909	1929	1939
25°	1886	1917	1943
30°	1870	1903	1957
35°	1851	1903	1983
40°	1832	1906	2028
45°	1798	1911	2104
50°	1758	1927	2205
55°	1700	1979	2324
60°	1619	2034	2458
65°	1526	2106	2596
70°	1363	2162	2712
75°	1182	2165	2148
80°	1002	1599	1736
85°	866	1084	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2712 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.0
10°-20°	390.3	8.7
20°-30°	594.8	13.2
30°-40°	727.7	16.1
40°-50°	783.1	17.4
50°-60°	758.5	16.8
60°-70°	642.6	14.3
70°-80°	388.4	8.6
80°-90°	85.4	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°	1121.0	24.9
0°-40°	1848.7	41.0
0°-60°	3390.3	75.2
0°-90°	4506.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1428	1428	1438	1431	1421	136
15°	1375	1379	1382	1386	1390	388
25°	1270	1277	1291	1302	1309	586
35°	1127	1134	1158	1190	1207	705
45°	945	963	1004	1068	1106	728
55°	724	756	844	941	990	647
65°	479	532	662	766	815	472
75°	227	308	416	424	413	244
85°	56	66	70	66	63	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.3	1431.3	1431.3	1431.3	1431.3
2.5°	1448.7	1445.3	1435.1	1427.9	1421.0
5°	1427.9	1427.9	1438.4	1431.3	1421.0
7.5°	1417.2	1417.2	1417.2	1435.1	1417.2
10°	1406.9	1410.5	1406.9	1421.0	1406.9
12.5°	1396.4	1396.4	1396.4	1399.8	1399.8
15°	1375.4	1379.0	1382.4	1385.9	1389.5
17.5°	1354.4	1357.8	1364.9	1368.3	1371.9
20°	1333.4	1336.8	1347.5	1347.5	1354.4
22.5°	1305.3	1305.3	1319.4	1322.9	1333.4
25°	1270.4	1277.4	1291.4	1301.9	1308.9
27.5°	1238.9	1245.9	1259.9	1274.0	1284.5
30°	1203.9	1211.0	1224.9	1245.9	1259.9
32.5°	1165.4	1172.4	1193.4	1217.9	1231.8
35°	1126.8	1133.9	1158.3	1190.0	1207.4
37.5°	1085.0	1095.3	1123.4	1158.3	1179.5
40°	1043.0	1053.5	1085.0	1123.4	1154.9
42.5°	993.9	1007.9	1043.0	1095.3	1130.6
45°	945.0	962.6	1004.4	1067.6	1105.8
47.5°	892.5	909.9	958.8	1039.4	1081.4
50°	840.0	861.0	920.4	1007.9	1053.5
52.5°	783.9	804.9	881.7	976.5	1025.4
55°	724.5	756.0	843.5	941.4	990.5
57.5°	664.8	700.1	798.0	903.0	955.5
60°	601.8	644.0	756.0	861.0	913.5
62.5°	542.4	588.0	710.4	815.4	868.1
65°	479.4	532.1	661.5	766.5	815.4
67.5°	413.1	479.4	605.4	707.0	756.0
70°	346.5	423.6	549.6	644.0	689.4
72.5°	287.1	367.5	486.6	567.0	567.0
75°	227.4	308.1	416.4	423.6	413.1
77.5°	174.9	252.0	325.5	297.3	304.5
80°	129.3	192.6	206.4	216.9	224.1
82.5°	87.6	129.3	133.2	140.1	140.1
85°	56.1	66.3	70.2	66.3	63.0
87.5°	24.6	28.2	21.0	14.1	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)