

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: P798097

Luminaire Tested: 24CZSB-SCT3-HRP-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345038)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-HRP-UNV-MID-3500K
Description: Cruze SB Selectable Troffer
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

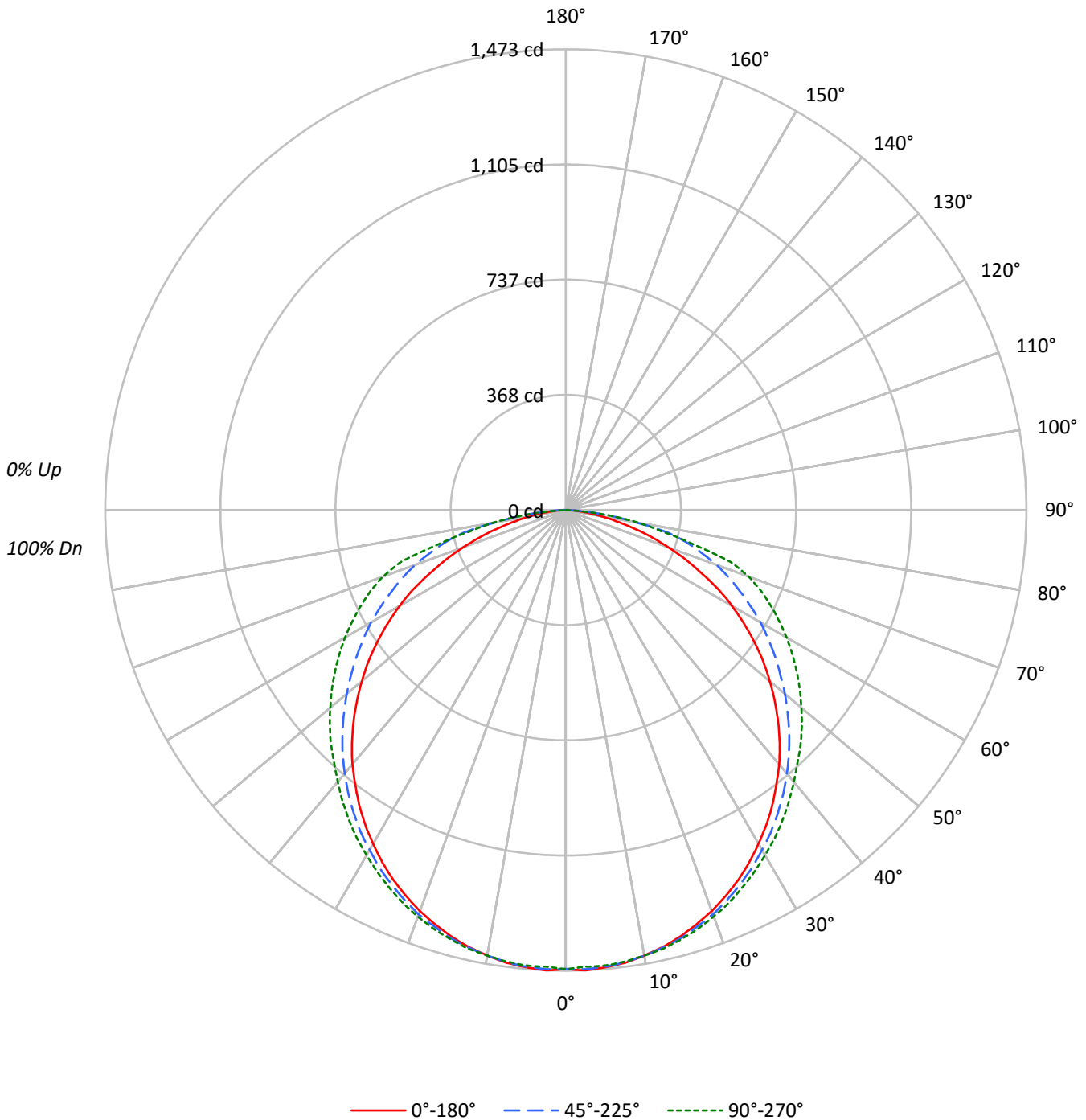
Lumens per Lamp: N/A
Luminaire Lumens: 4466.6 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	100	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68	68	68	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57	57	57	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48	48	48	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41	41	41	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36	36	36	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32	32	32	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28	28	28	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25	25	25	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1975	1975	1975
5°	1982	1979	1974
10°	1976	1976	1976
15°	1967	1975	1980
20°	1953	1970	1981
25°	1937	1960	1980
30°	1914	1950	1980
35°	1892	1942	1986
40°	1865	1932	1993
45°	1828	1922	2021
50°	1782	1914	2058
55°	1728	1916	2114
60°	1653	1936	2194
65°	1529	1955	2302
70°	1378	2017	2446
75°	1164	2079	2188
80°	905	1780	1839
85°	651	1212	1062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.1
10°-20°	399.4	8.9
20°-30°	607.4	13.6
30°-40°	738.0	16.5
40°-50°	778.9	17.4
50°-60°	731.9	16.4
60°-70°	602.6	13.5
70°-80°	379.6	8.5
80°-90°	89.6	2.0
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°	1146.0	25.7
0°-40°	1884.0	42.2
0°-60°	3394.8	76.0
0°-90°	4466.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4466.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1468	1460	1466	1464	1462	139
15°	1412	1406	1418	1422	1422	398
25°	1305	1303	1320	1328	1334	601
35°	1152	1158	1182	1198	1209	720
45°	960	976	1010	1039	1062	741
55°	737	764	817	874	901	658
65°	480	526	614	693	723	477
75°	224	293	400	436	421	239
85°	42	71	78	73	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.5	1467.5	1467.5	1467.5	1467.5
2.5°	1473.3	1463.8	1469.4	1467.5	1461.8
5°	1467.5	1459.9	1465.5	1463.8	1461.8
7.5°	1459.9	1452.3	1458.0	1456.0	1456.0
10°	1446.5	1440.7	1446.5	1446.5	1446.5
12.5°	1431.1	1425.5	1433.1	1435.0	1437.0
15°	1412.1	1406.3	1417.7	1421.6	1421.6
17.5°	1389.2	1385.3	1396.7	1400.6	1404.3
20°	1364.3	1362.3	1375.8	1379.5	1383.3
22.5°	1335.5	1335.5	1348.9	1352.6	1360.4
25°	1304.8	1302.9	1320.2	1327.8	1333.6
27.5°	1270.4	1270.4	1289.7	1299.2	1304.8
30°	1232.2	1236.0	1255.1	1266.6	1274.3
32.5°	1193.9	1197.8	1220.7	1234.1	1243.6
35°	1151.9	1157.5	1182.4	1197.8	1209.2
37.5°	1105.9	1115.6	1142.2	1159.5	1172.9
40°	1061.9	1069.5	1100.2	1119.3	1134.6
42.5°	1012.2	1025.6	1056.1	1079.0	1096.3
45°	960.5	975.9	1010.2	1039.0	1061.9
47.5°	906.9	926.1	962.4	1000.7	1023.7
50°	851.5	872.5	914.6	960.5	983.4
52.5°	795.9	818.9	864.9	918.3	943.2
55°	736.7	763.5	816.9	874.4	901.2
57.5°	675.4	706.0	767.2	832.3	859.1
60°	614.2	646.7	719.4	784.5	815.2
62.5°	551.1	587.4	665.9	740.5	769.1
65°	480.2	526.2	614.2	692.6	723.2
67.5°	415.2	463.1	564.5	642.8	675.4
70°	350.2	405.5	512.8	591.3	621.8
72.5°	285.1	350.2	455.3	535.7	553.0
75°	223.9	292.8	399.9	436.2	420.9
77.5°	164.6	241.1	336.7	317.7	313.8
80°	116.8	191.4	229.7	231.4	237.3
82.5°	74.6	141.7	149.2	151.2	153.1
85°	42.2	70.7	78.5	72.7	68.8
87.5°	19.1	22.9	19.1	13.4	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)