

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: P798098

Luminaire Tested: 24CZSB-SCT3-HRP-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798098
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-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

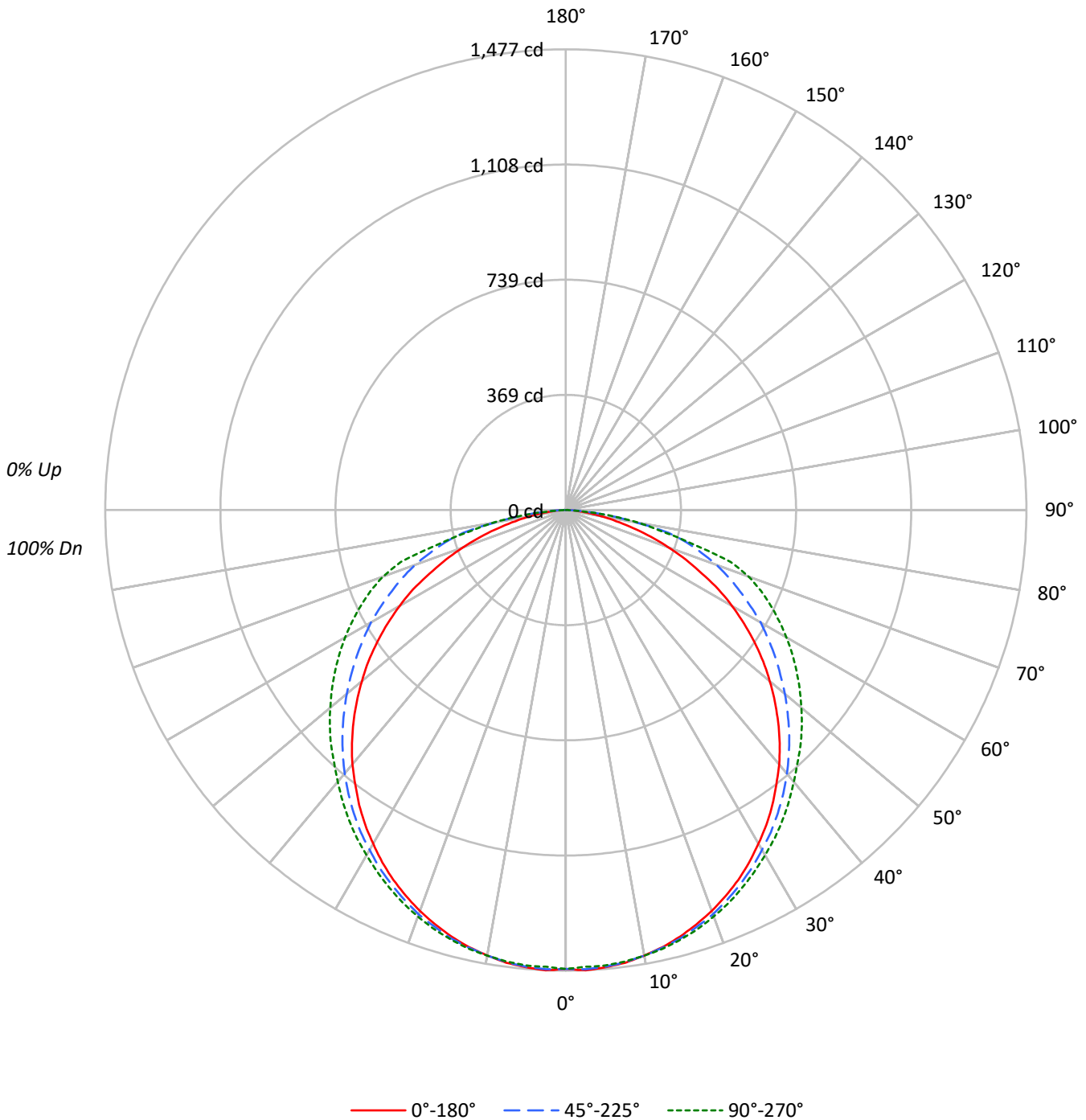
Lumens per Lamp: N/A
Luminaire Lumens: 4478.5 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	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°	1980	1980	1980
5°	1987	1985	1980
10°	1981	1981	1981
15°	1972	1980	1986
20°	1959	1975	1986
25°	1942	1965	1985
30°	1919	1955	1985
35°	1897	1947	1991
40°	1870	1937	1998
45°	1833	1927	2026
50°	1787	1920	2064
55°	1733	1921	2120
60°	1657	1941	2199
65°	1533	1961	2309
70°	1381	2023	2453
75°	1167	2085	2194
80°	907	1784	1843
85°	653	1215	1065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.1
10°-20°	400.5	8.9
20°-30°	609.0	13.6
30°-40°	740.0	16.5
40°-50°	781.0	17.4
50°-60°	733.8	16.4
60°-70°	604.2	13.5
70°-80°	380.6	8.5
80°-90°	89.9	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°	1149.0	25.7
0°-40°	1889.0	42.2
0°-60°	3403.8	76.0
0°-90°	4478.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4478.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1471	1464	1469	1468	1466	140
15°	1416	1410	1422	1425	1425	399
25°	1308	1306	1324	1331	1337	603
35°	1155	1161	1186	1201	1212	722
45°	963	978	1013	1042	1065	743
55°	739	766	819	877	904	659
65°	481	528	616	694	725	478
75°	224	294	401	437	422	240
85°	42	71	79	73	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1477.2	1467.7	1473.3	1471.4	1465.7
5°	1471.4	1463.8	1469.4	1467.7	1465.7
7.5°	1463.8	1456.2	1461.8	1459.9	1459.9
10°	1450.3	1444.5	1450.3	1450.3	1450.3
12.5°	1435.0	1429.3	1436.9	1438.8	1440.8
15°	1415.8	1410.0	1421.5	1425.4	1425.4
17.5°	1392.9	1389.0	1400.5	1404.4	1408.1
20°	1367.9	1366.0	1379.4	1383.1	1387.0
22.5°	1339.1	1339.1	1352.5	1356.2	1364.0
25°	1308.3	1306.4	1323.7	1331.3	1337.1
27.5°	1273.8	1273.8	1293.1	1302.7	1308.3
30°	1235.4	1239.3	1258.4	1269.9	1277.7
32.5°	1197.1	1201.0	1223.9	1237.4	1246.9
35°	1155.0	1160.6	1185.6	1201.0	1212.4
37.5°	1108.8	1118.5	1145.2	1162.6	1176.0
40°	1064.8	1072.4	1103.1	1122.2	1137.6
42.5°	1014.9	1028.3	1058.9	1081.9	1099.3
45°	963.1	978.4	1012.9	1041.8	1064.8
47.5°	909.3	928.6	965.0	1003.4	1026.4
50°	853.8	874.8	917.1	963.1	986.1
52.5°	798.0	821.0	867.2	920.8	945.7
55°	738.6	765.5	819.1	876.7	903.6
57.5°	677.2	707.8	769.2	834.5	861.4
60°	615.9	648.4	721.3	786.5	817.3
62.5°	552.5	589.0	667.7	742.5	771.2
65°	481.4	527.6	615.9	694.4	725.2
67.5°	416.4	464.3	566.0	644.5	677.2
70°	351.1	406.6	514.2	592.9	623.5
72.5°	285.8	351.1	456.5	537.2	554.5
75°	224.4	293.6	401.0	437.4	422.0
77.5°	165.0	241.8	337.6	318.5	314.7
80°	117.1	191.9	230.3	232.1	237.9
82.5°	74.8	142.0	149.6	151.6	153.5
85°	42.3	70.9	78.7	72.9	69.0
87.5°	19.1	23.0	19.1	13.4	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)