

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: P798089

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-UNV-MID-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

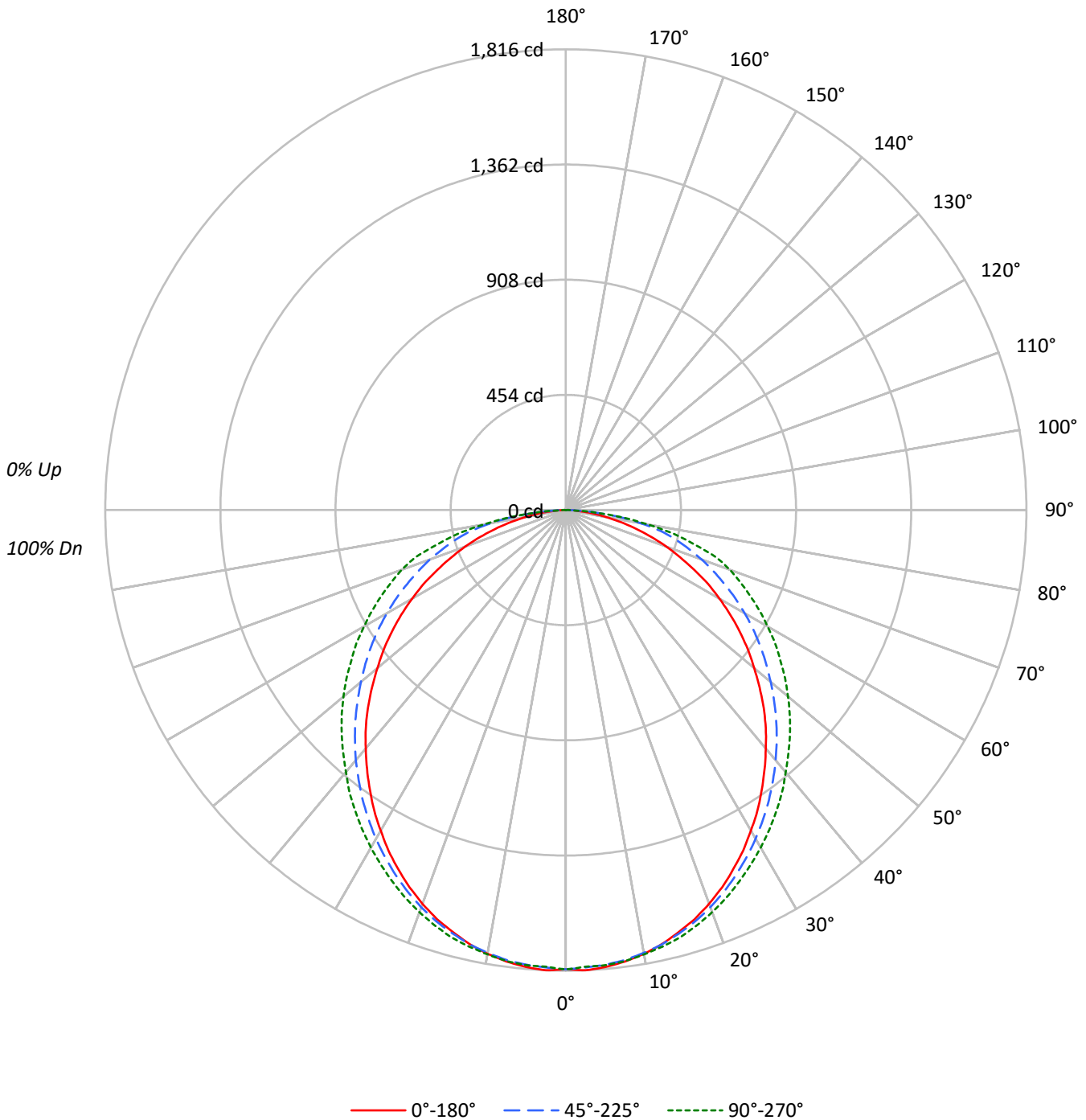
Lumens per Lamp: N/A
Luminaire Lumens: 5276.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P798089
CATALOG NUMBER: 24CZSB-SCT3-UNV-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798089
 CATALOG NUMBER: 24CZSB-SCT3-UNV-MID-4000K

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	94	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	51	51	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2436	2436	2436
5°	2442	2430	2433
10°	2427	2422	2430
15°	2399	2406	2429
20°	2365	2386	2416
25°	2320	2356	2400
30°	2267	2325	2388
35°	2213	2293	2378
40°	2155	2261	2369
45°	2100	2233	2379
50°	2030	2206	2395
55°	1965	2196	2422
60°	1883	2192	2471
65°	1779	2196	2557
70°	1665	2241	2710
75°	1499	2333	2736
80°	1267	2330	2559
85°	982	1891	1879

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2788 cd/sqm



TEST NUMBER: P798089
 CATALOG NUMBER: 24CZSB-SCT3-UNV-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.2
10°-20°	488.2	9.3
20°-30°	732.1	13.9
30°-40°	874.6	16.6
40°-50°	907.8	17.2
50°-60°	838.4	15.9
60°-70°	681.3	12.9
70°-80°	450.8	8.5
80°-90°	131.6	2.5
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°	1391.6	26.4
0°-40°	2266.2	43.0
0°-60°	4012.4	76.0
0°-90°	5276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1808	1804	1799	1804	1801	172
15°	1722	1721	1728	1744	1744	486
25°	1562	1568	1587	1611	1617	720
35°	1347	1364	1396	1434	1448	843
45°	1104	1125	1173	1231	1250	850
55°	838	867	936	1010	1032	748
65°	559	603	690	775	803	555
75°	288	348	449	515	526	306
85°	64	110	122	122	122	77
90°	0	0	0	0	0	



TEST NUMBER: P798089

CATALOG NUMBER: 24CZSB-SCT3-UNV-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.5	1810.5	1810.5	1810.5	1810.5
2.5°	1816.0	1811.3	1805.1	1810.5	1802.0
5°	1808.2	1803.6	1798.9	1803.6	1801.2
7.5°	1795.0	1791.2	1788.8	1795.0	1793.5
10°	1776.4	1771.8	1772.6	1781.1	1778.8
12.5°	1752.4	1750.1	1753.2	1763.3	1762.5
15°	1722.2	1720.6	1727.6	1743.9	1743.9
17.5°	1690.4	1688.9	1699.7	1716.0	1716.8
20°	1651.7	1653.2	1666.4	1682.7	1687.3
22.5°	1609.8	1612.1	1628.4	1647.0	1654.0
25°	1562.5	1567.9	1587.3	1611.4	1616.8
27.5°	1513.7	1520.7	1543.1	1570.3	1577.3
30°	1459.4	1468.7	1496.6	1527.6	1536.9
32.5°	1406.0	1419.9	1447.0	1481.9	1493.5
35°	1347.1	1364.1	1395.9	1433.9	1447.8
37.5°	1287.4	1306.8	1341.6	1385.0	1401.3
40°	1226.9	1247.8	1287.4	1333.1	1348.6
42.5°	1167.2	1188.2	1230.8	1282.0	1299.0
45°	1103.7	1124.6	1173.4	1230.8	1250.2
47.5°	1036.3	1062.6	1113.8	1178.9	1198.2
50°	969.6	998.3	1054.1	1122.3	1144.0
52.5°	905.3	933.2	996.0	1067.3	1089.7
55°	837.8	867.3	936.3	1009.9	1032.4
57.5°	769.6	802.2	875.8	951.8	978.9
60°	699.9	736.3	814.6	892.9	918.4
62.5°	633.2	668.9	752.6	834.0	861.9
65°	558.8	603.0	689.8	775.1	803.0
67.5°	488.3	537.1	629.3	716.9	744.8
70°	423.2	475.1	569.7	656.5	689.0
72.5°	354.2	410.0	507.7	595.2	623.1
75°	288.3	348.0	448.8	515.4	526.3
77.5°	224.8	287.5	384.4	427.1	437.1
80°	163.5	230.2	300.7	332.5	330.2
82.5°	109.3	174.4	216.2	224.8	226.3
85°	63.6	110.1	122.5	121.7	121.7
87.5°	27.1	45.0	39.5	35.7	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)