

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: P798104

Luminaire Tested: 24CZSB-SCT3-S-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSB-SCT3-S-UNV-LOW-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

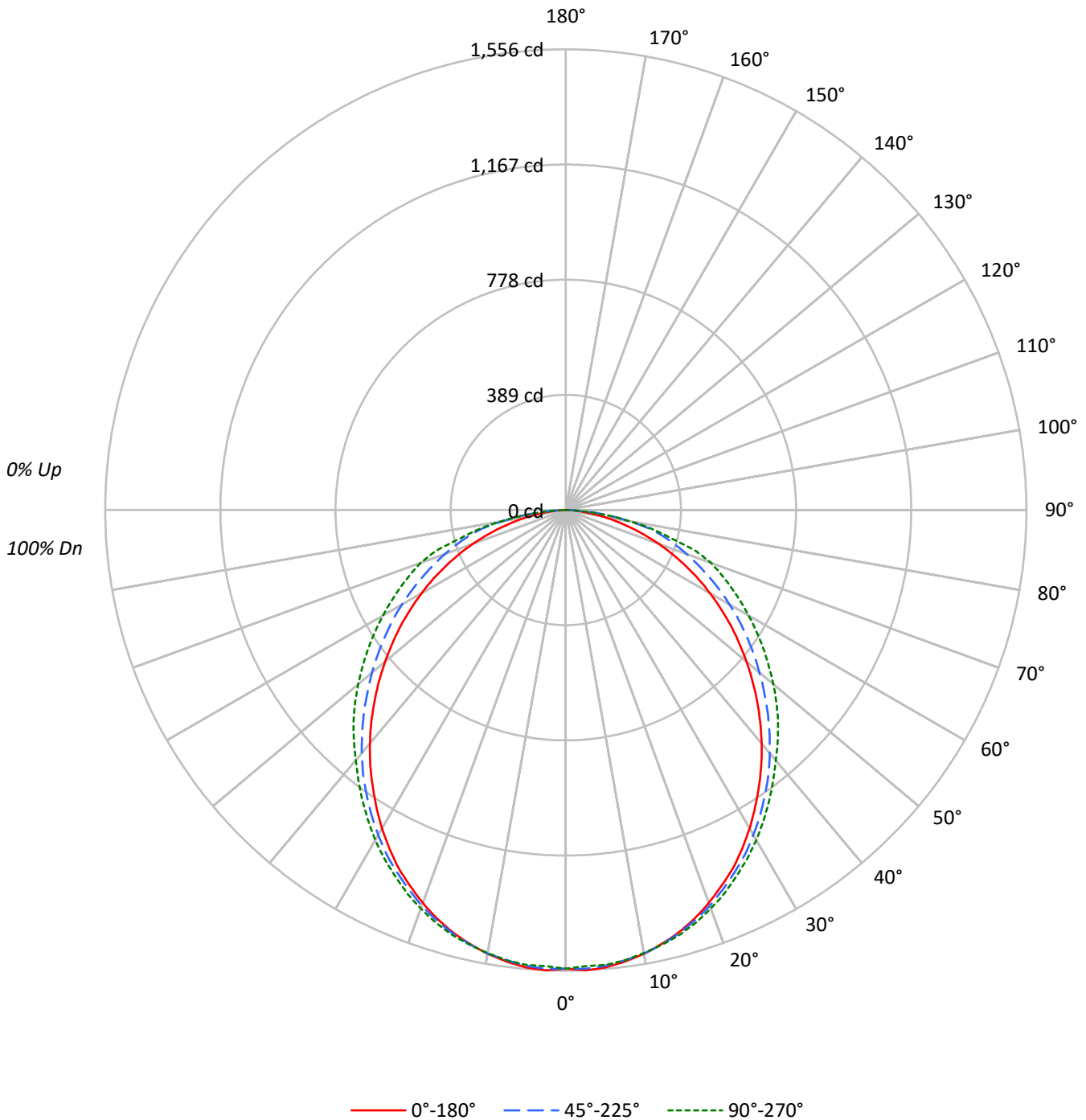
Lumens per Lamp: N/A
Luminaire Lumens: 4279.4 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2084	2084	2084
5°	2094	2086	2083
10°	2080	2078	2076
15°	2057	2061	2069
20°	2022	2037	2051
25°	1983	2004	2025
30°	1929	1969	2000
35°	1869	1927	1967
40°	1808	1883	1938
45°	1739	1834	1929
50°	1669	1788	1916
55°	1597	1750	1911
60°	1514	1720	1920
65°	1423	1700	1958
70°	1311	1709	2050
75°	1162	1769	1909
80°	972	1678	1722
85°	724	1342	1230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 2064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.4
10°-20°	416.6	9.7
20°-30°	620.8	14.5
30°-40°	730.8	17.1
40°-50°	742.6	17.4
50°-60°	667.7	15.6
60°-70°	527.5	12.3
70°-80°	334.6	7.8
80°-90°	92.4	2.2
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°	1183.8	27.7
0°-40°	1914.6	44.7
0°-60°	3324.9	77.7
0°-90°	4279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4279.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1551	1538	1545	1542	1542	147
15°	1477	1470	1480	1484	1485	416
25°	1336	1334	1350	1358	1364	614
35°	1138	1145	1173	1186	1198	712
45°	914	927	964	993	1014	705
55°	681	698	746	795	814	608
65°	447	470	534	592	615	443
75°	224	262	340	370	367	238
85°	47	81	87	80	80	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.2	1549.2	1549.2	1549.2	1549.2
2.5°	1556.3	1544.8	1550.7	1547.7	1542.1
5°	1550.7	1537.8	1544.8	1542.1	1542.1
7.5°	1537.8	1527.8	1533.5	1532.1	1533.5
10°	1522.1	1512.2	1520.8	1520.8	1519.3
12.5°	1500.8	1492.2	1502.3	1502.3	1503.6
15°	1476.6	1469.6	1479.5	1483.6	1485.2
17.5°	1446.7	1439.6	1452.4	1456.6	1461.0
20°	1412.4	1409.7	1422.4	1426.7	1432.4
22.5°	1374.1	1374.1	1386.8	1392.5	1401.1
25°	1335.6	1334.2	1349.9	1358.5	1364.2
27.5°	1290.0	1291.6	1311.4	1320.0	1327.2
30°	1241.7	1244.5	1267.2	1277.3	1287.2
32.5°	1190.4	1196.1	1221.7	1233.1	1243.0
35°	1137.6	1144.9	1173.2	1186.2	1197.5
37.5°	1085.0	1095.1	1124.9	1137.6	1150.6
40°	1029.4	1038.0	1072.2	1087.8	1103.5
42.5°	972.6	984.0	1018.1	1040.8	1059.5
45°	914.1	927.0	964.0	992.6	1013.8
47.5°	855.8	872.9	908.4	946.9	965.4
50°	797.3	814.5	854.3	897.1	915.4
52.5°	737.6	754.8	800.3	844.3	864.3
55°	680.6	697.8	746.2	794.6	814.5
57.5°	620.8	639.3	693.5	743.3	763.1
60°	562.5	580.8	639.3	691.9	713.4
62.5°	505.6	525.4	586.7	642.2	663.5
65°	447.1	469.9	533.9	592.4	615.1
67.5°	390.1	415.8	482.7	544.0	568.2
70°	333.3	363.2	434.3	497.0	521.2
72.5°	277.7	310.4	385.9	448.5	461.3
75°	223.5	262.0	340.3	370.2	367.3
77.5°	172.3	214.9	289.1	294.8	303.2
80°	125.4	172.3	216.5	227.9	222.2
82.5°	82.5	129.6	155.3	149.4	148.1
85°	46.9	81.2	86.9	79.7	79.7
87.5°	20.0	32.7	28.6	21.3	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)