

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: P798095

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798095
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-LOW-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

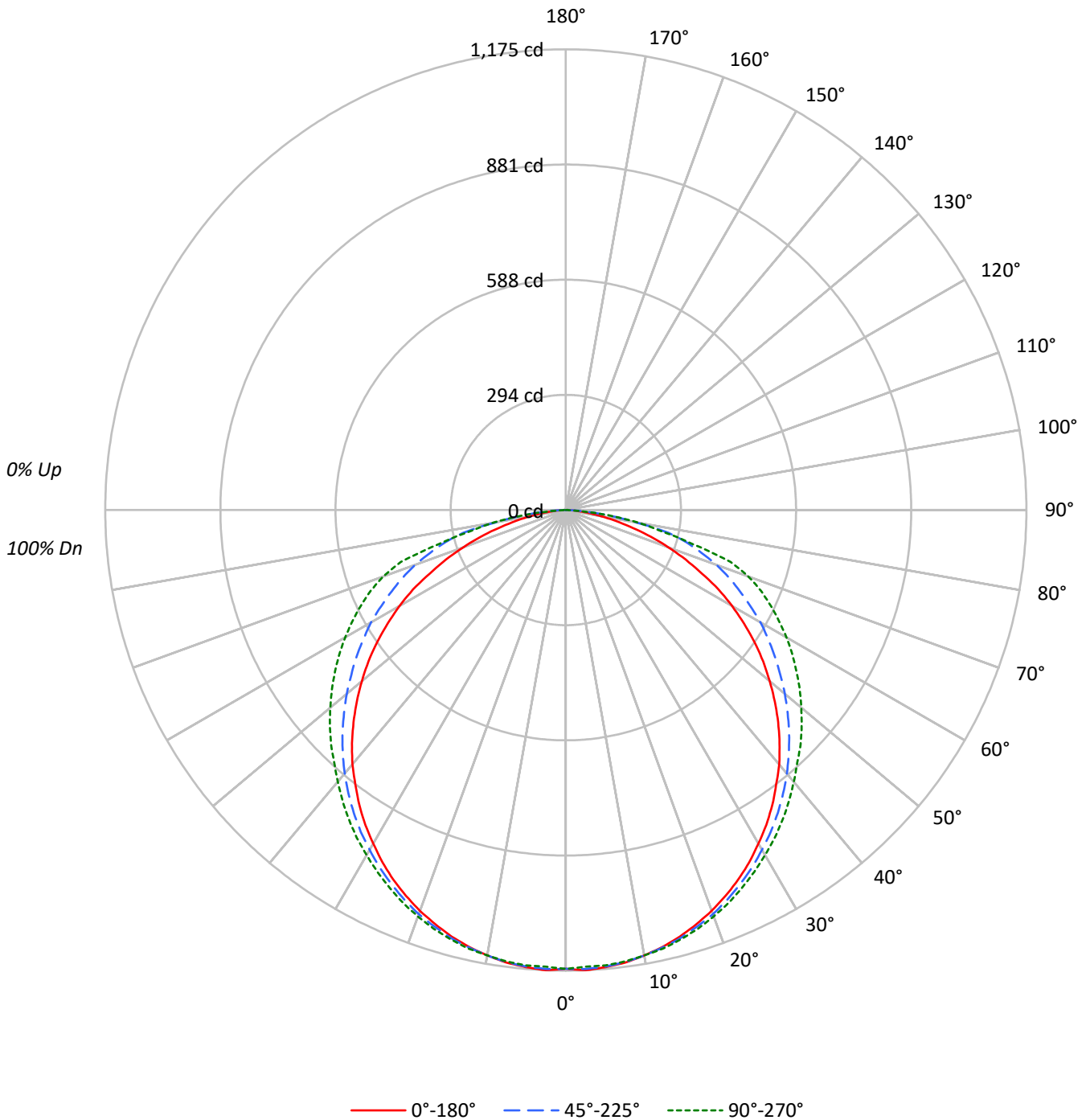
Lumens per Lamp: N/A
Luminaire Lumens: 3561.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	30	30	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1574	1574	1574
5°	1581	1578	1574
10°	1576	1576	1576
15°	1568	1575	1579
20°	1558	1571	1579
25°	1545	1563	1579
30°	1526	1555	1579
35°	1509	1549	1584
40°	1487	1541	1589
45°	1457	1533	1611
50°	1421	1527	1641
55°	1378	1528	1686
60°	1318	1544	1749
65°	1219	1559	1836
70°	1098	1609	1950
75°	928	1658	1745
80°	721	1419	1466
85°	519	966	848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 1973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.1
10°-20°	318.5	8.9
20°-30°	484.4	13.6
30°-40°	588.5	16.5
40°-50°	621.1	17.4
50°-60°	583.6	16.4
60°-70°	480.5	13.5
70°-80°	302.7	8.5
80°-90°	71.5	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°	913.8	25.7
0°-40°	1502.3	42.2
0°-60°	2707.1	76.0
0°-90°	3561.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3561.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1170	1164	1169	1167	1166	111
15°	1126	1121	1130	1134	1134	318
25°	1040	1039	1053	1059	1063	479
35°	918	923	943	955	964	574
45°	766	778	806	828	847	591
55°	587	609	651	697	719	524
65°	383	420	490	552	577	380
75°	178	234	319	348	336	191
85°	34	56	63	58	55	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.2	1170.2	1170.2	1170.2	1170.2
2.5°	1174.8	1167.2	1171.7	1170.2	1165.7
5°	1170.2	1164.1	1168.6	1167.2	1165.7
7.5°	1164.1	1158.1	1162.6	1161.0	1161.0
10°	1153.5	1148.8	1153.5	1153.5	1153.5
12.5°	1141.2	1136.7	1142.8	1144.3	1145.9
15°	1126.0	1121.4	1130.5	1133.6	1133.6
17.5°	1107.7	1104.6	1113.8	1116.9	1119.8
20°	1087.9	1086.4	1097.0	1100.0	1103.1
22.5°	1065.0	1065.0	1075.7	1078.6	1084.8
25°	1040.5	1039.0	1052.7	1058.8	1063.4
27.5°	1013.1	1013.1	1028.4	1036.0	1040.5
30°	982.5	985.6	1000.8	1010.0	1016.2
32.5°	952.0	955.1	973.4	984.1	991.7
35°	918.5	923.0	942.9	955.1	964.3
37.5°	881.8	889.6	910.8	924.6	935.3
40°	846.8	852.9	877.3	892.5	904.8
42.5°	807.1	817.8	842.2	860.4	874.2
45°	765.9	778.2	805.6	828.5	846.8
47.5°	723.2	738.5	767.5	798.0	816.3
50°	679.0	695.7	729.3	765.9	784.2
52.5°	634.7	653.0	689.7	732.3	752.1
55°	587.4	608.8	651.4	697.3	718.7
57.5°	538.6	562.9	611.8	663.7	685.0
60°	489.8	515.7	573.6	625.5	650.0
62.5°	439.4	468.4	531.0	590.5	613.3
65°	382.9	419.6	489.8	552.3	576.7
67.5°	331.1	369.2	450.1	512.6	538.6
70°	279.2	323.4	408.9	471.5	495.8
72.5°	227.3	279.2	363.1	427.2	441.0
75°	178.5	233.5	318.9	347.9	335.6
77.5°	131.2	192.3	268.5	253.3	250.2
80°	93.1	152.6	183.1	184.6	189.2
82.5°	59.5	113.0	119.0	120.5	122.1
85°	33.6	56.4	62.6	58.0	54.9
87.5°	15.2	18.3	15.2	10.7	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)