

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: P798365

Luminaire Tested: 14CZSB-SCT3-S-UNV-HIGH-3000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-S-UNV-HIGH-3000K
Description: Cruze SB Selectable Troffer
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

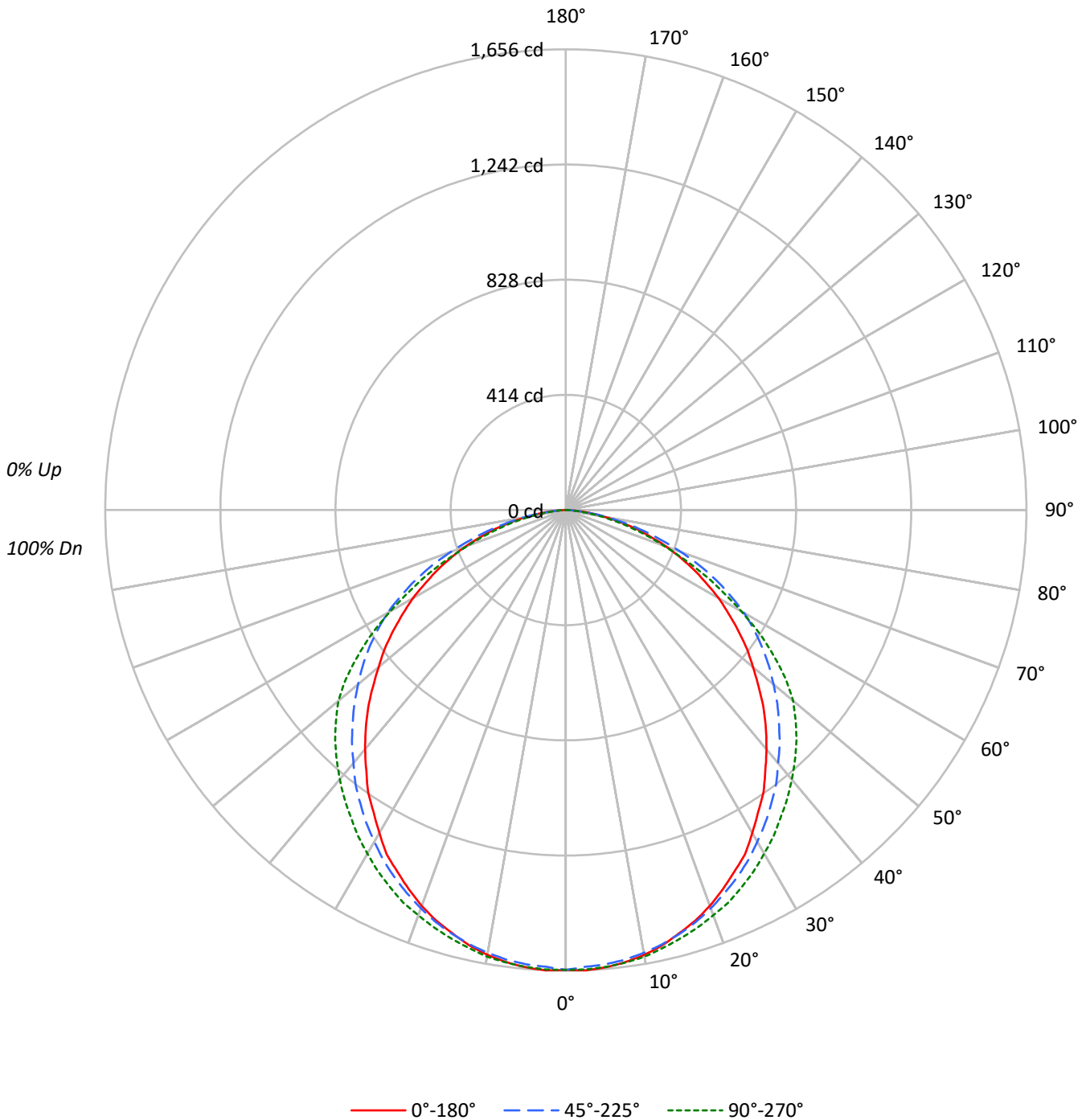
Lumens per Lamp: N/A
Luminaire Lumens: 4584.4 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2224	2224	2224
5°	2228	2214	2227
10°	2218	2208	2227
15°	2194	2197	2221
20°	2168	2182	2219
25°	2129	2163	2220
30°	2083	2139	2216
35°	2035	2116	2213
40°	1972	2085	2220
45°	1913	2061	2232
50°	1838	2040	2233
55°	1777	2023	2140
60°	1708	1994	1961
65°	1616	1899	1745
70°	1509	1725	1474
75°	1361	1504	1237
80°	1095	1180	943
85°	778	676	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 50°
 Luminance: 2233 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.4
10°-20°	446.8	9.7
20°-30°	674.1	14.7
30°-40°	808.3	17.6
40°-50°	838.8	18.3
50°-60°	757.3	16.5
60°-70°	551.5	12.0
70°-80°	289.2	6.3
80°-90°	61.9	1.3
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°	1277.4	27.9
0°-40°	2085.7	45.5
0°-60°	3681.7	80.3
0°-90°	4584.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1650	1647	1639	1650	1649	157
15°	1575	1575	1577	1595	1594	445
25°	1434	1442	1457	1489	1496	661
35°	1239	1251	1288	1336	1347	773
45°	1005	1027	1083	1151	1173	774
55°	758	784	863	914	912	677
65°	508	538	596	569	548	502
75°	262	299	289	250	238	275
85°	50	60	44	34	32	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.0	1653.0	1653.0	1653.0	1653.0
2.5°	1656.5	1652.1	1643.4	1654.2	1653.0
5°	1649.9	1646.6	1639.1	1649.9	1648.8
7.5°	1639.1	1636.8	1630.2	1642.2	1641.0
10°	1623.6	1620.3	1616.0	1629.0	1630.2
12.5°	1602.9	1601.7	1599.3	1613.7	1612.5
15°	1575.3	1575.3	1577.4	1595.1	1594.1
17.5°	1548.0	1548.0	1553.4	1573.2	1574.1
20°	1514.1	1516.2	1523.7	1548.0	1550.1
22.5°	1475.5	1477.8	1491.0	1521.6	1527.3
25°	1433.8	1441.6	1456.9	1488.7	1495.5
27.5°	1395.4	1396.6	1419.7	1454.8	1463.5
30°	1340.6	1356.1	1376.8	1417.6	1426.3
32.5°	1286.9	1302.4	1334.2	1378.0	1390.0
35°	1238.9	1250.6	1288.1	1336.3	1347.4
37.5°	1178.6	1198.1	1241.9	1292.5	1307.9
40°	1122.6	1140.0	1187.3	1244.3	1263.8
42.5°	1064.4	1084.2	1138.1	1199.3	1219.1
45°	1005.3	1027.2	1083.2	1151.1	1172.9
47.5°	940.6	968.1	1031.4	1100.7	1120.4
50°	878.2	906.4	974.5	1047.0	1066.8
52.5°	821.0	846.4	920.8	987.7	996.4
55°	757.6	784.0	862.6	914.4	912.1
57.5°	694.1	723.5	802.6	834.2	825.4
60°	634.7	662.0	740.9	747.7	728.9
62.5°	569.1	600.8	667.7	657.8	634.7
65°	507.6	538.4	596.4	569.1	548.1
67.5°	445.0	477.9	519.6	479.1	454.9
70°	383.5	423.1	438.6	394.8	374.8
72.5°	321.1	362.8	361.6	320.0	303.7
75°	261.8	299.2	289.4	250.0	238.0
77.5°	199.4	236.8	218.0	188.6	177.5
80°	141.3	176.6	152.3	129.3	121.7
82.5°	96.3	117.2	95.4	75.6	72.3
85°	50.4	60.3	43.8	33.9	31.8
87.5°	18.6	17.4	15.5	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)