

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: P798020

Luminaire Tested: 14CZSB-SCT3-HRP-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P345154)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSB-SCT3-HRP-UNV-HIGH-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

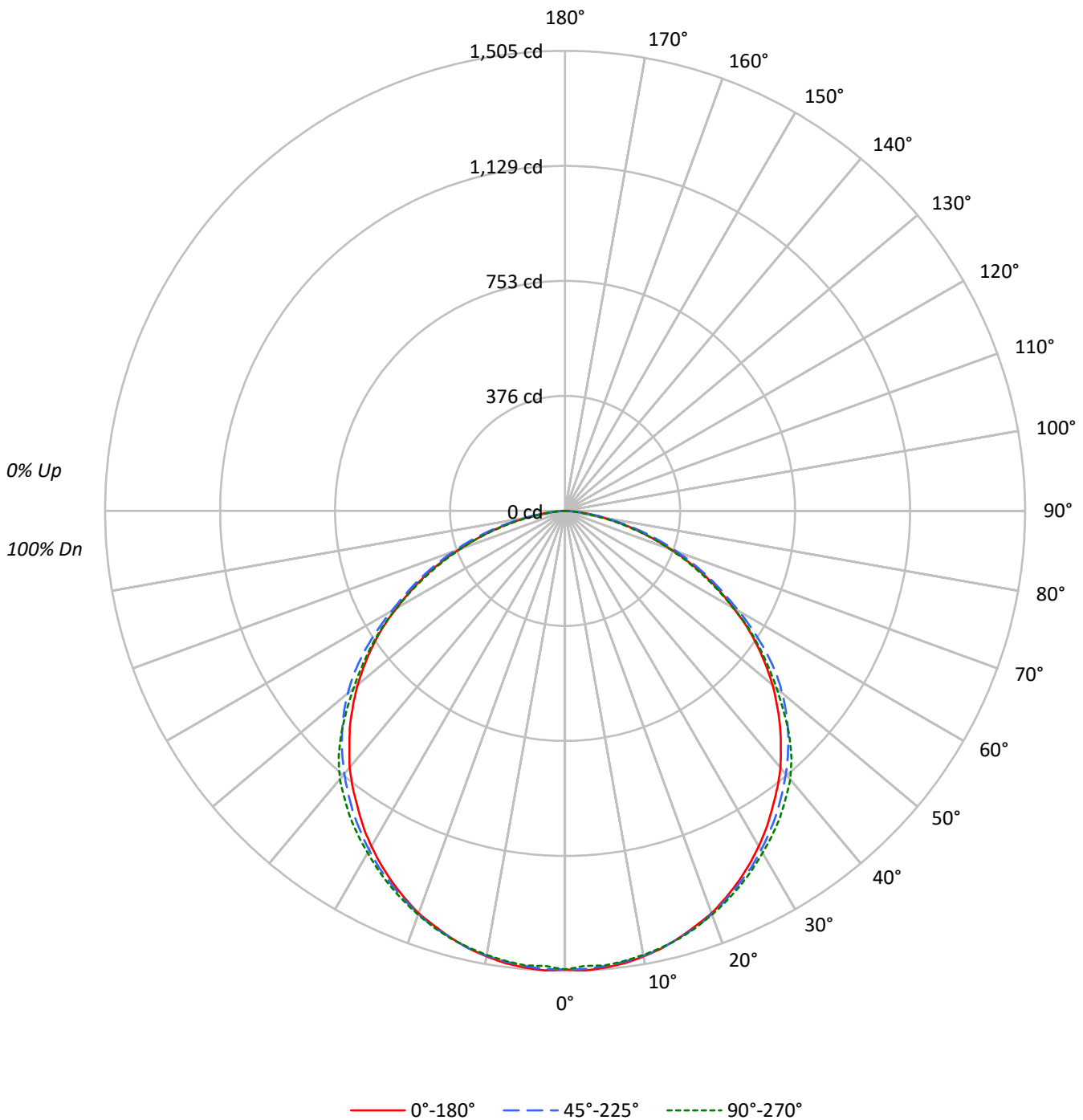
Lumens per Lamp: N/A
Luminaire Lumens: 4238.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	65	88	78	71	65	75	69	64	73	67	63	70	66	62	62	62	62	59
4	83	71	62	55	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	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	41	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	46	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	32	32	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4036	4036	4036
5°	4052	4038	4032
10°	4045	4038	4031
15°	4027	4027	4034
20°	4012	4019	4026
25°	3976	3998	4020
30°	3938	3984	4015
35°	3886	3967	4025
40°	3851	3947	4026
45°	3787	3927	3947
50°	3710	3885	3782
55°	3599	3763	3635
60°	3424	3529	3424
65°	3231	3324	3167
70°	2901	3058	2863
75°	2496	2703	2443
80°	1957	2109	1764
85°	1380	1223	1068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 3956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.3
10°-20°	407.8	9.6
20°-30°	619.6	14.6
30°-40°	752.6	17.8
40°-50°	786.1	18.5
50°-60°	699.1	16.5
60°-70°	510.3	12.0
70°-80°	266.2	6.3
80°-90°	55.0	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°	1169.3	27.6
0°-40°	1921.9	45.3
0°-60°	3407.2	80.4
0°-90°	4238.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4238.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1500	1490	1495	1492	1492	143
15°	1445	1438	1445	1448	1448	408
25°	1339	1334	1346	1349	1354	617
35°	1183	1183	1208	1215	1225	741
45°	995	998	1032	1040	1037	767
55°	767	782	802	780	775	684
65°	508	535	522	508	497	500
75°	240	262	260	242	235	256
85°	45	50	40	35	35	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.9	1499.9	1499.9	1499.9	1499.9
2.5°	1504.9	1494.9	1499.9	1497.5	1490.1
5°	1499.9	1490.1	1494.9	1492.5	1492.5
7.5°	1492.5	1482.6	1487.4	1485.0	1485.0
10°	1480.2	1470.1	1477.6	1475.2	1475.2
12.5°	1465.3	1455.2	1465.3	1462.7	1462.7
15°	1445.4	1438.0	1445.4	1448.0	1448.0
17.5°	1423.1	1418.3	1428.1	1428.1	1428.1
20°	1401.0	1393.6	1403.4	1403.4	1405.8
22.5°	1371.2	1363.8	1376.3	1373.6	1381.1
25°	1339.1	1334.0	1346.5	1348.9	1353.9
27.5°	1304.5	1301.8	1316.7	1319.1	1324.2
30°	1267.3	1262.2	1282.2	1284.6	1292.0
32.5°	1227.7	1227.7	1245.0	1250.0	1259.8
35°	1183.0	1183.0	1207.7	1215.2	1225.3
37.5°	1141.0	1141.0	1165.7	1178.2	1185.7
40°	1096.4	1096.4	1123.7	1136.0	1146.0
42.5°	1044.5	1046.9	1079.1	1091.6	1096.4
45°	995.0	997.5	1032.0	1039.5	1037.1
47.5°	940.6	948.0	982.6	977.8	970.3
50°	886.1	893.5	928.1	908.4	903.3
52.5°	826.8	839.0	868.8	841.4	839.0
55°	767.2	782.1	802.0	779.7	774.7
57.5°	705.3	725.2	730.3	715.4	710.3
60°	636.2	663.3	655.8	643.6	636.2
62.5°	571.8	596.5	586.7	574.2	566.8
65°	507.5	534.6	522.1	507.5	497.4
67.5°	438.1	470.3	455.4	438.1	430.7
70°	368.7	396.1	388.7	371.4	363.9
72.5°	302.0	326.7	324.3	306.8	299.6
75°	240.1	262.4	260.0	242.5	235.0
77.5°	180.8	202.9	195.6	180.8	173.3
80°	126.3	146.0	136.1	121.2	113.8
82.5°	81.6	91.5	81.6	69.4	64.3
85°	44.7	49.5	39.6	34.6	34.6
87.5°	14.9	17.3	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)