

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: P798370

Luminaire Tested: 14CZSB-SCT3-S-UNV-LOW-4000K

Issue Date: 3/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P798370
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-LOW-4000K
Description: Cruze SB Selectable Troffer
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

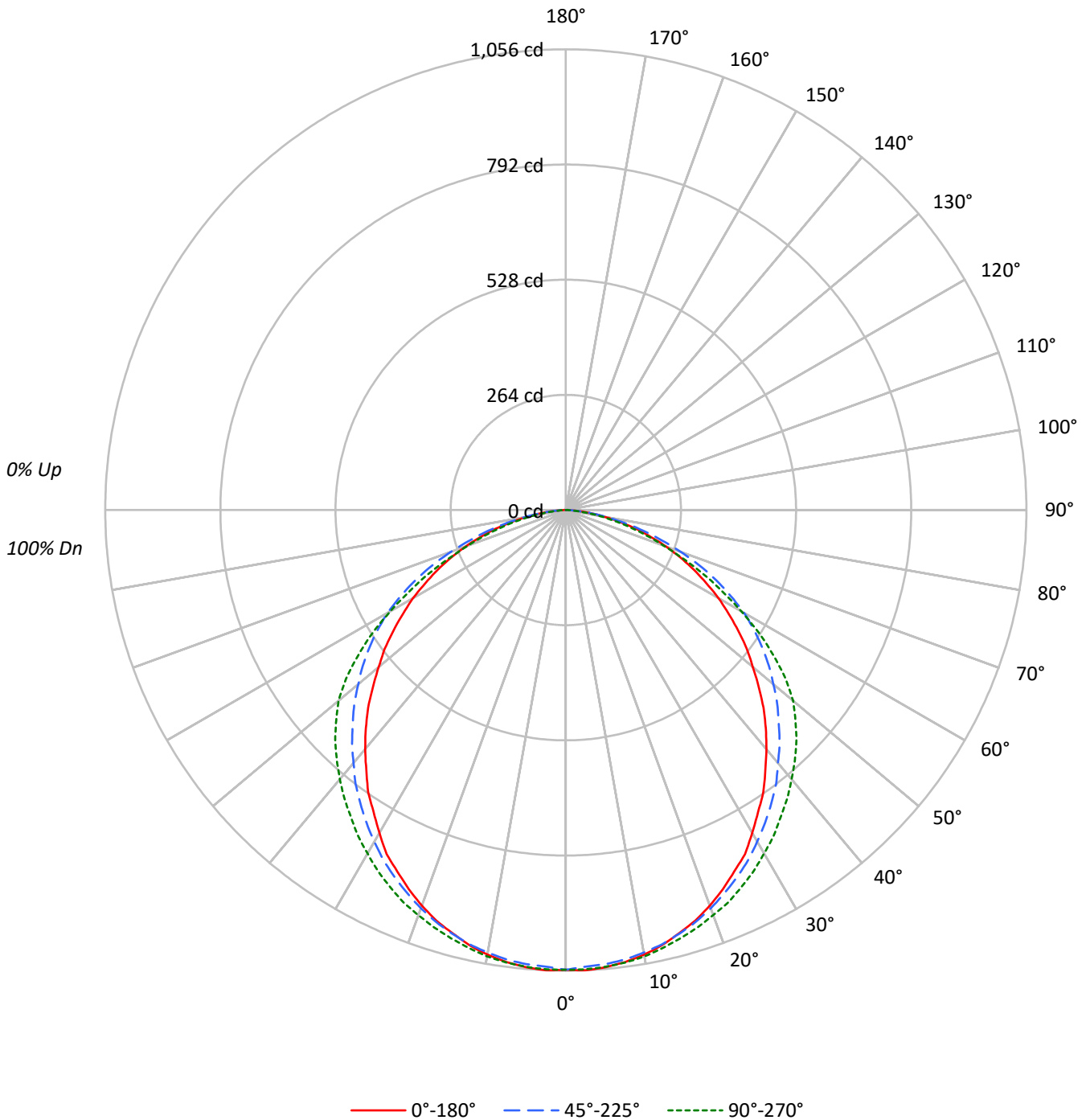
Lumens per Lamp: N/A
Luminaire Lumens: 2922.3 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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



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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	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°	1418	1418	1418
5°	1421	1411	1420
10°	1414	1408	1420
15°	1399	1401	1416
20°	1382	1391	1415
25°	1357	1379	1415
30°	1328	1364	1413
35°	1297	1349	1411
40°	1257	1329	1415
45°	1219	1314	1423
50°	1172	1300	1423
55°	1133	1290	1364
60°	1089	1271	1250
65°	1030	1210	1112
70°	962	1100	940
75°	868	959	789
80°	697	752	601
85°	496	431	313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.4
10°-20°	284.8	9.7
20°-30°	429.7	14.7
30°-40°	515.3	17.6
40°-50°	534.7	18.3
50°-60°	482.7	16.5
60°-70°	351.6	12.0
70°-80°	184.4	6.3
80°-90°	39.4	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°	814.3	27.9
0°-40°	1329.5	45.5
0°-60°	2346.9	80.3
0°-90°	2922.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1052	1050	1045	1052	1051	100
15°	1004	1004	1006	1017	1016	283
25°	914	919	929	949	953	421
35°	790	797	821	852	859	492
45°	641	655	690	734	748	493
55°	483	500	550	583	581	432
65°	324	343	380	363	349	320
75°	167	191	184	159	152	176
85°	32	38	28	22	20	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1056.0	1053.1	1047.6	1054.5	1053.7
5°	1051.8	1049.7	1044.9	1051.8	1051.0
7.5°	1044.9	1043.4	1039.2	1046.8	1046.1
10°	1035.0	1032.9	1030.2	1038.4	1039.2
12.5°	1021.7	1021.0	1019.5	1028.7	1027.9
15°	1004.2	1004.2	1005.5	1016.8	1016.2
17.5°	986.8	986.8	990.2	1002.8	1003.4
20°	965.2	966.5	971.3	986.8	988.1
22.5°	940.6	942.1	950.5	970.0	973.6
25°	914.0	918.9	928.7	949.0	953.3
27.5°	889.5	890.3	905.0	927.3	932.9
30°	854.6	864.5	877.7	903.6	909.2
32.5°	820.3	830.2	850.5	878.4	886.1
35°	789.7	797.2	821.1	851.9	858.9
37.5°	751.3	763.8	791.7	823.9	833.7
40°	715.6	726.7	756.9	793.2	805.6
42.5°	678.5	691.1	725.5	764.5	777.1
45°	640.8	654.8	690.5	733.7	747.7
47.5°	599.6	617.1	657.5	701.6	714.2
50°	559.8	577.8	621.2	667.4	680.0
52.5°	523.3	539.5	587.0	629.6	635.1
55°	483.0	499.8	549.9	582.9	581.4
57.5°	442.4	461.2	511.6	531.7	526.2
60°	404.6	422.0	472.3	476.7	464.6
62.5°	362.7	383.0	425.6	419.3	404.6
65°	323.6	343.2	380.2	362.7	349.4
67.5°	283.7	304.7	331.2	305.4	290.0
70°	244.5	269.7	279.6	251.7	238.9
72.5°	204.7	231.3	230.5	204.0	193.6
75°	166.9	190.8	184.4	159.4	151.7
77.5°	127.1	151.0	139.0	120.2	113.2
80°	90.0	112.6	97.1	82.4	77.6
82.5°	61.4	74.7	60.8	48.2	46.1
85°	32.1	38.4	27.9	21.6	20.3
87.5°	11.9	11.1	9.9	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)