

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P260386

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1672.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

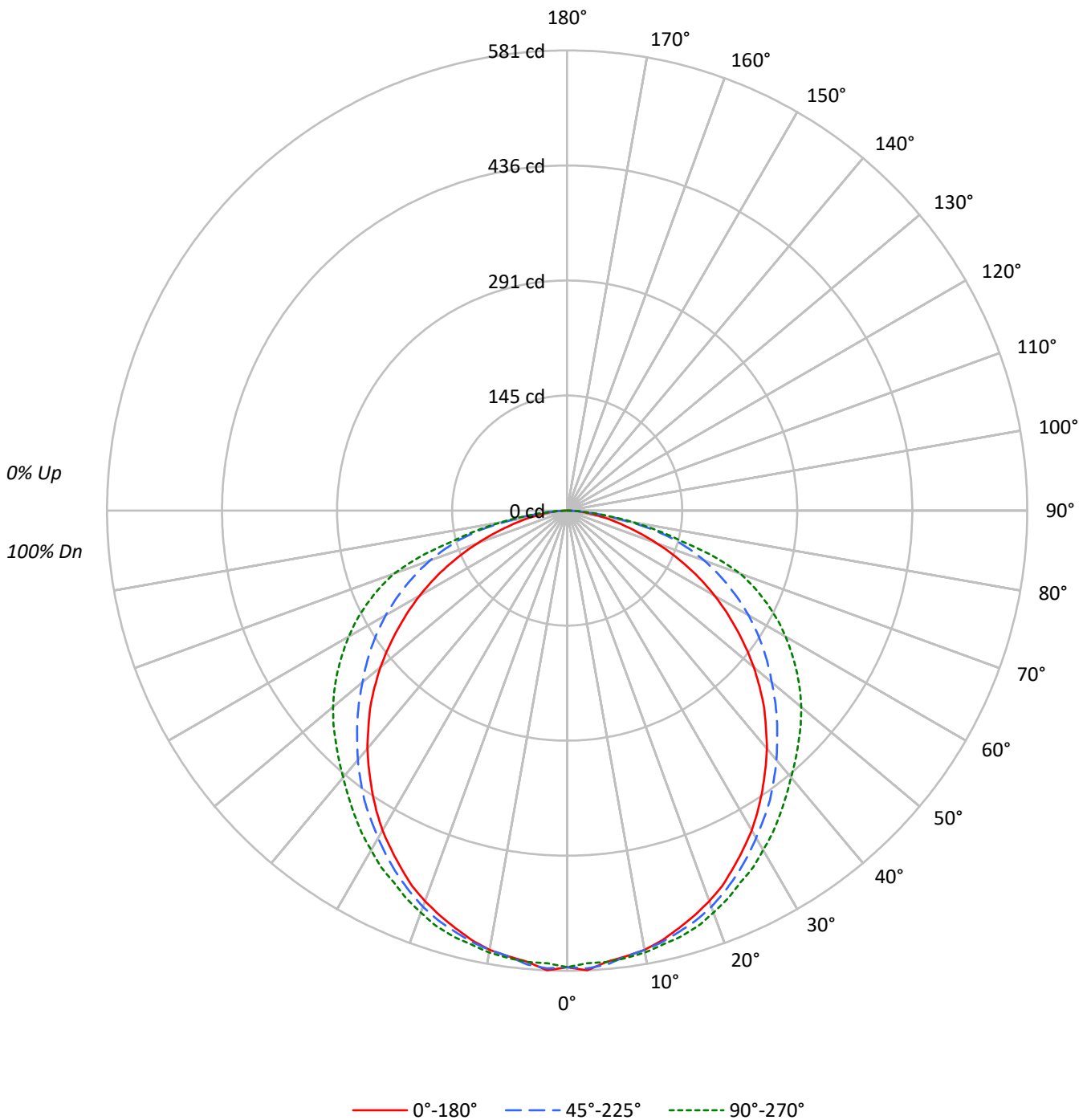
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260386

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P260386

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1551	1551	1551
5°	1545	1554	1545
10°	1539	1539	1548
15°	1520	1532	1551
20°	1502	1525	1547
25°	1476	1505	1538
30°	1449	1483	1538
35°	1412	1466	1539
40°	1378	1444	1545
45°	1338	1426	1573
50°	1287	1412	1615
55°	1225	1417	1660
60°	1157	1424	1714
65°	1067	1431	1776
70°	945	1448	1830
75°	803	1444	1559
80°	666	1161	1299
85°	577	784	747



TEST NUMBER: P260386

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.3
10°-20°	155.3	9.3
20°-30°	233.7	14.0
30°-40°	280.1	16.8
40°-50°	292.1	17.5
50°-60°	271.9	16.3
60°-70°	220.8	13.2
70°-80°	133.1	8.0
80°-90°	30.5	1.8
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°	443.5	26.5
0°-40°	723.6	43.3
0°-60°	1287.6	77.0
0°-90°	1672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	572	572	575	576	572	54
15°	546	548	550	553	557	154
25°	497	500	507	514	518	229
35°	430	435	446	460	468	269
45°	352	358	375	399	413	271
55°	261	272	302	335	354	234
65°	168	185	225	260	279	166
75°	77	102	139	148	150	83
85°	19	23	25	24	24	22
90°	0	0	0	0	0	



TEST NUMBER: P260386

CATALOG NUMBER: 22CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.4	576.4	576.4	576.4	576.4
2.5°	580.9	579.7	578.6	575.3	572.0
5°	572.0	572.0	575.3	576.4	572.0
7.5°	567.6	567.6	567.6	572.0	569.8
10°	563.2	563.2	563.2	566.5	566.5
12.5°	555.5	556.6	557.7	558.8	561.0
15°	545.6	547.8	550.0	553.3	556.6
17.5°	535.7	537.9	542.3	545.6	550.0
20°	524.6	526.8	532.4	535.7	540.1
22.5°	512.5	513.6	520.2	524.6	530.2
25°	497.1	500.4	507.0	513.6	518.0
27.5°	481.7	485.0	492.7	501.5	508.1
30°	466.2	469.5	477.2	488.3	494.9
32.5°	448.6	453.0	461.8	475.0	482.8
35°	429.9	435.4	446.4	459.6	468.4
37.5°	411.1	416.6	428.7	445.3	454.1
40°	392.4	397.9	411.1	428.7	439.8
42.5°	371.4	378.0	392.4	413.3	426.5
45°	351.6	358.2	374.7	399.0	413.3
47.5°	329.6	337.3	356.0	383.6	400.1
50°	307.5	316.3	337.3	368.1	385.8
52.5°	284.4	294.3	319.6	351.6	370.3
55°	261.2	272.2	302.0	335.1	353.8
57.5°	238.1	250.2	283.3	317.4	336.2
60°	214.9	228.2	264.5	299.8	318.5
62.5°	191.8	206.1	244.7	280.0	299.8
65°	167.5	185.2	224.8	260.1	278.9
67.5°	143.3	164.2	205.0	239.2	256.8
70°	120.1	143.3	184.1	216.0	232.6
72.5°	98.1	122.3	162.0	189.6	196.2
75°	77.2	102.5	138.9	147.7	149.9
77.5°	59.5	82.7	110.2	112.4	117.9
80°	43.0	62.8	74.9	81.6	83.8
82.5°	29.8	43.0	49.6	50.7	51.8
85°	18.7	23.1	25.4	24.2	24.2
87.5°	9.9	8.8	7.7	5.5	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)