

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: P259322

Luminaire Tested: **22CZ-LD5-20-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

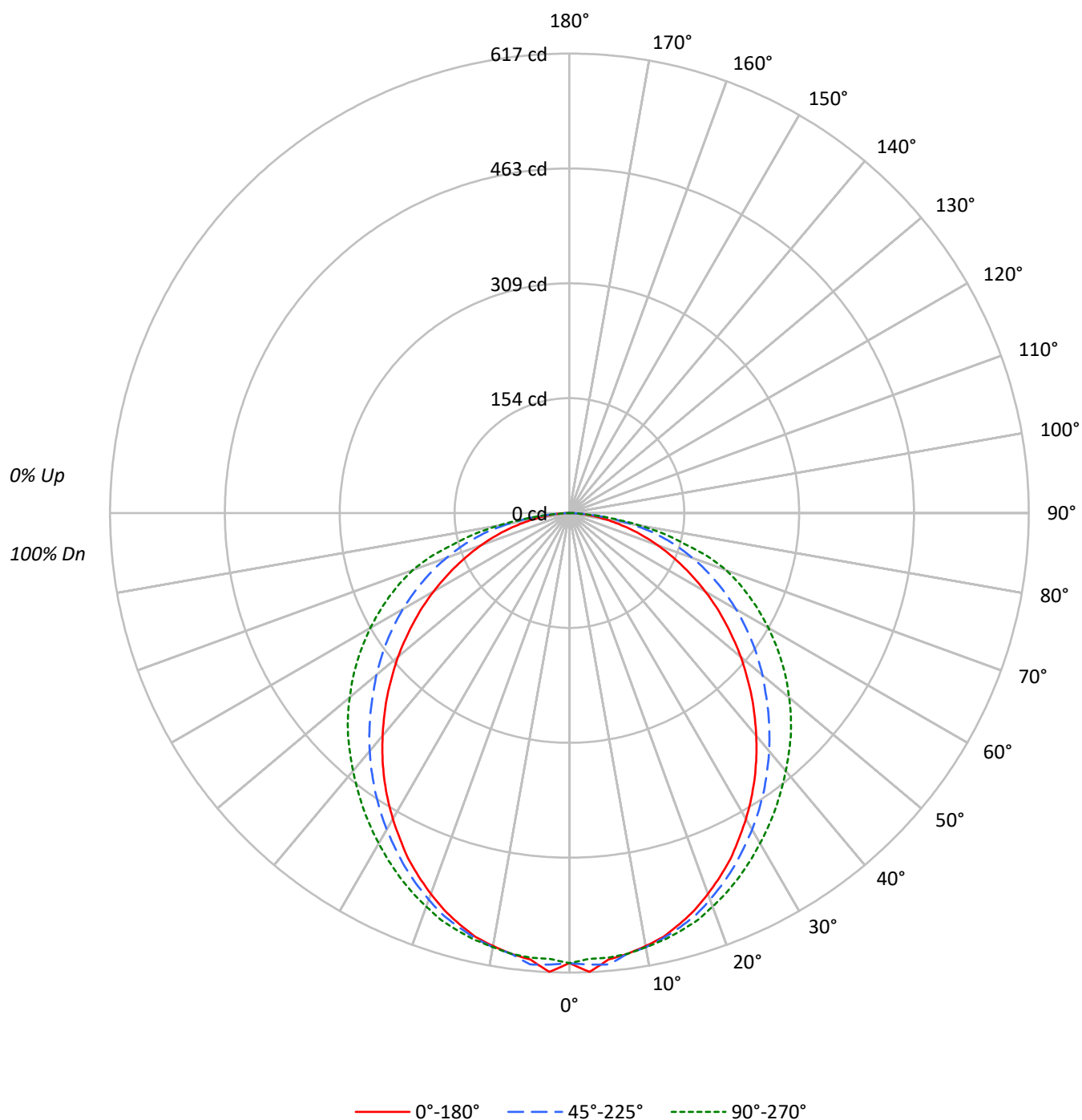
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259322

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P259322

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	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		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1626	1626	1626
5°	1626	1643	1619
10°	1613	1617	1617
15°	1592	1603	1617
20°	1558	1582	1610
25°	1521	1555	1601
30°	1473	1525	1591
35°	1425	1496	1588
40°	1371	1466	1588
45°	1316	1438	1601
50°	1258	1417	1613
55°	1197	1402	1634
60°	1135	1391	1661
65°	1064	1384	1704
70°	991	1380	1762
75°	898	1378	1669
80°	778	1275	1480
85°	661	966	942



TEST NUMBER: P259322

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.4
10°-20°	162.3	9.6
20°-30°	241.5	14.3
30°-40°	285.6	16.9
40°-50°	293.6	17.3
50°-60°	268.3	15.8
60°-70°	214.6	12.7
70°-80°	134.7	8.0
80°-90°	35.1	2.1
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°	461.2	27.2
0°-40°	746.8	44.1
0°-60°	1308.6	77.3
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	602	602	608	604	599	57
15°	571	572	576	579	580	161
25°	512	515	524	533	539	235
35°	434	440	455	473	483	271
45°	346	355	378	406	421	267
55°	255	268	299	332	348	228
65°	167	182	217	250	268	166
75°	86	103	132	152	160	92
85°	21	27	31	30	30	25
90°	0	0	0	0	0	



TEST NUMBER: P259322

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.3	604.3	604.3	604.3	604.3
2.5°	616.6	614.2	606.8	601.8	599.3
5°	601.8	601.8	608.4	604.3	599.3
7.5°	596.9	596.9	596.9	609.2	596.9
10°	590.3	591.1	591.9	596.9	591.9
12.5°	582.9	582.9	584.5	586.2	587.0
15°	571.4	572.2	575.5	578.8	580.4
17.5°	559.0	561.5	565.6	569.7	573.0
20°	544.2	547.5	552.4	559.0	562.3
22.5°	528.5	531.8	538.4	545.8	551.6
25°	512.1	515.4	523.6	532.7	539.2
27.5°	493.1	497.3	507.1	519.5	526.1
30°	474.2	479.1	490.7	504.7	512.1
32.5°	454.5	460.2	473.4	489.0	498.1
35°	433.9	439.6	455.3	472.6	483.3
37.5°	412.5	419.1	436.3	456.1	467.6
40°	390.2	397.6	417.4	438.8	452.0
42.5°	368.0	376.2	397.6	423.2	436.3
45°	345.8	354.8	377.9	405.9	420.7
47.5°	322.7	333.4	357.3	388.6	403.4
50°	300.5	311.2	338.4	370.5	385.3
52.5°	277.4	289.8	318.6	351.5	367.2
55°	255.2	267.6	298.9	331.8	348.2
57.5°	233.0	245.3	278.3	312.0	328.5
60°	210.8	223.9	258.5	291.4	308.7
62.5°	188.5	202.5	237.9	271.7	288.1
65°	167.1	181.9	217.3	250.3	267.6
67.5°	146.5	162.2	196.8	228.9	246.2
70°	126.0	141.6	175.4	206.6	223.9
72.5°	106.2	121.8	154.8	182.8	195.9
75°	86.4	102.9	132.5	152.3	160.5
77.5°	67.5	84.0	109.5	122.7	131.7
80°	50.2	64.2	82.3	92.2	95.5
82.5°	34.6	46.1	57.6	60.1	61.7
85°	21.4	27.2	31.3	30.5	30.5
87.5°	9.9	10.7	9.1	6.6	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)