

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: P259326

Luminaire Tested: **22CZ-LD5-20-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259326
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1957.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

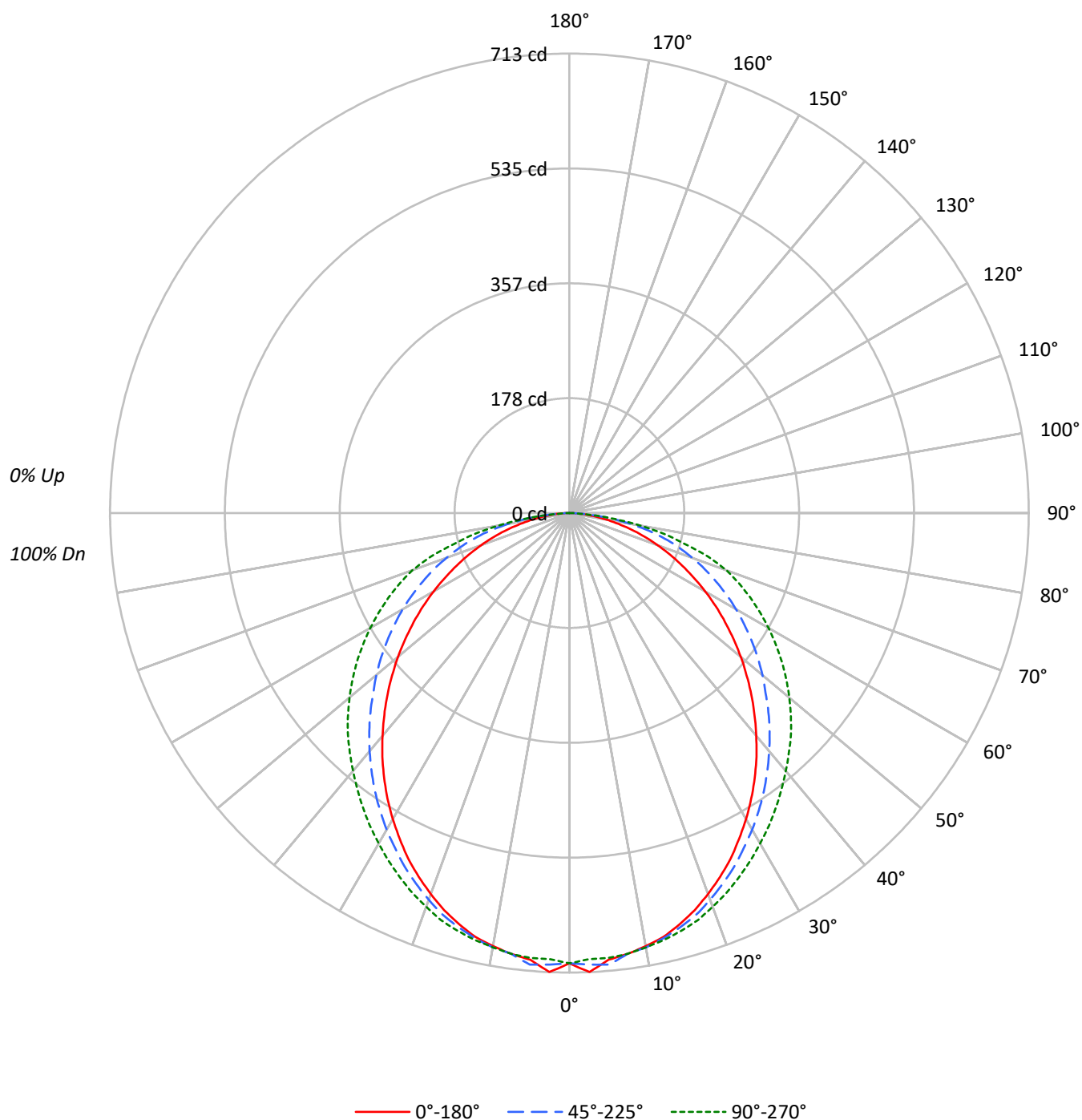
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259326

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P259326

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1880	1880	1880
5°	1879	1900	1871
10°	1864	1870	1870
15°	1840	1853	1869
20°	1801	1829	1861
25°	1757	1797	1851
30°	1703	1762	1839
35°	1647	1729	1835
40°	1585	1695	1835
45°	1521	1662	1851
50°	1454	1637	1865
55°	1384	1621	1889
60°	1311	1608	1921
65°	1230	1599	1969
70°	1146	1595	2037
75°	1039	1593	1930
80°	900	1475	1711
85°	763	1118	1087



TEST NUMBER: P259326

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	3.4
10°-20°	187.7	9.6
20°-30°	279.2	14.3
30°-40°	330.2	16.9
40°-50°	339.4	17.3
50°-60°	310.1	15.8
60°-70°	248.1	12.7
70°-80°	155.7	8.0
80°-90°	40.6	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°	533.1	27.2
0°-40°	863.3	44.1
0°-60°	1512.7	77.3
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	696	696	703	698	693	66
15°	660	661	665	669	671	186
25°	592	596	605	616	623	272
35°	502	508	526	546	559	313
45°	400	410	437	469	486	308
55°	295	309	346	384	403	264
65°	193	210	251	289	309	192
75°	100	119	153	176	186	106
85°	25	31	36	35	35	29
90°	0	0	0	0	0	



TEST NUMBER: P259326

CATALOG NUMBER: 22CZ-LD5-20-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.5	698.5	698.5	698.5	698.5
2.5°	712.8	709.9	701.4	695.7	692.8
5°	695.7	695.7	703.3	698.5	692.8
7.5°	690.0	690.0	690.0	704.2	690.0
10°	682.3	683.3	684.2	690.0	684.2
12.5°	673.8	673.8	675.7	677.6	678.5
15°	660.5	661.4	665.2	669.0	670.9
17.5°	646.2	649.0	653.8	658.5	662.4
20°	629.0	632.9	638.6	646.2	650.0
22.5°	611.0	614.8	622.4	631.0	637.6
25°	591.9	595.7	605.3	615.7	623.3
27.5°	570.0	574.8	586.2	600.5	608.1
30°	548.2	553.9	567.2	583.4	591.9
32.5°	525.3	532.0	547.2	565.3	575.8
35°	501.5	508.2	526.3	546.3	558.6
37.5°	476.8	484.4	504.4	527.2	540.5
40°	451.1	459.7	482.5	507.2	522.5
42.5°	425.4	434.9	459.7	489.2	504.4
45°	399.7	410.2	436.8	469.2	486.3
47.5°	373.1	385.4	413.0	449.2	466.3
50°	347.4	359.7	391.1	428.2	445.4
52.5°	320.7	335.0	368.3	406.4	424.4
55°	295.0	309.3	345.5	383.5	402.6
57.5°	269.3	283.6	321.7	360.7	379.7
60°	243.6	258.9	298.8	336.9	356.9
62.5°	217.9	234.1	275.0	314.0	333.1
65°	193.2	210.3	251.2	289.3	309.3
67.5°	169.4	187.5	227.4	264.6	284.5
70°	145.6	163.7	202.7	238.9	258.9
72.5°	122.8	140.8	178.9	211.3	226.5
75°	99.9	119.0	153.2	176.1	185.6
77.5°	78.0	97.1	126.6	141.8	152.3
80°	58.1	74.2	95.2	106.6	110.4
82.5°	40.0	53.3	66.6	69.5	71.4
85°	24.7	31.4	36.2	35.2	35.2
87.5°	11.4	12.4	10.5	7.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)