

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: P260461

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260461  
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-LD5-24-RDP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1877.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

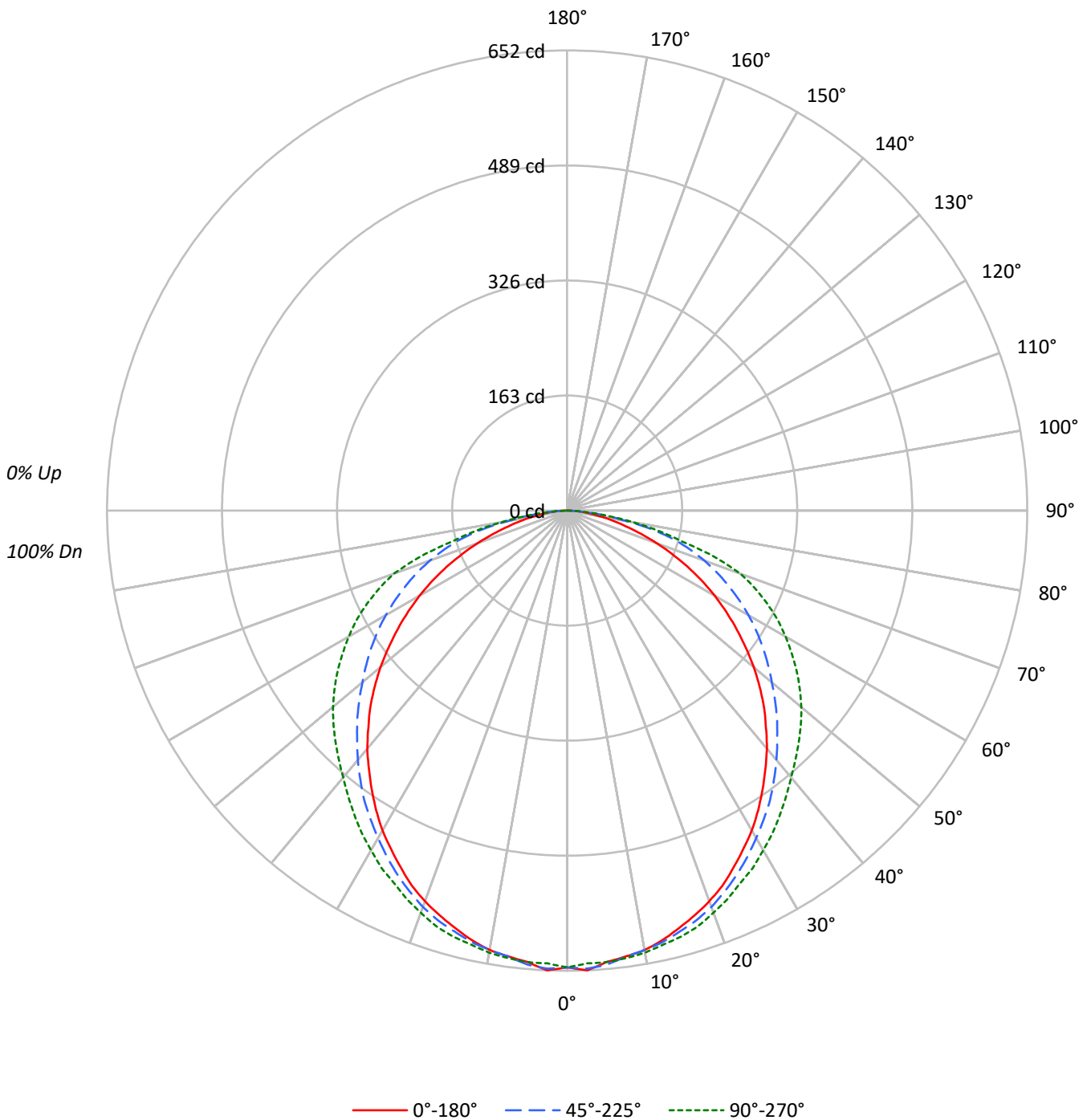
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1741	1741	1741
5°	1735	1745	1735
10°	1728	1728	1738
15°	1706	1720	1741
20°	1687	1711	1736
25°	1657	1690	1727
30°	1626	1665	1726
35°	1585	1646	1728
40°	1547	1621	1734
45°	1502	1601	1766
50°	1445	1585	1813
55°	1376	1590	1863
60°	1299	1598	1925
65°	1198	1607	1993
70°	1061	1626	2054
75°	900	1621	1750
80°	748	1303	1457
85°	648	880	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	3.3
10°-20°	174.4	9.3
20°-30°	262.4	14.0
30°-40°	314.4	16.8
40°-50°	327.9	17.5
50°-60°	305.3	16.3
60°-70°	247.9	13.2
70°-80°	149.4	8.0
80°-90°	34.3	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°	497.9	26.5
0°-40°	812.3	43.3
0°-60°	1445.5	77.0
0°-90°	1877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	642	642	646	647	642	61
15°	612	615	617	621	625	173
25°	558	562	569	577	582	257
35°	483	489	501	516	526	302
45°	395	402	421	448	464	304
55°	293	306	339	376	397	262
65°	188	208	252	292	313	186
75°	87	115	156	166	168	94
85°	21	26	28	27	27	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	647.1	647.1	647.1	647.1	647.1
2.5°	652.1	650.8	649.6	645.9	642.2
5°	642.2	642.2	645.9	647.1	642.2
7.5°	637.2	637.2	637.2	642.2	639.7
10°	632.3	632.3	632.3	636.0	636.0
12.5°	623.6	624.8	626.1	627.3	629.8
15°	612.5	614.9	617.4	621.1	624.8
17.5°	601.3	603.8	608.8	612.5	617.4
20°	589.0	591.4	597.6	601.3	606.3
22.5°	575.4	576.6	584.0	589.0	595.2
25°	558.0	561.7	569.2	576.6	581.5
27.5°	540.7	544.4	553.1	563.0	570.4
30°	523.4	527.1	535.8	548.1	555.6
32.5°	503.6	508.5	518.4	533.3	541.9
35°	482.6	488.7	501.1	516.0	525.9
37.5°	461.5	467.7	481.3	499.9	509.8
40°	440.5	446.7	461.5	481.3	493.7
42.5°	417.0	424.4	440.5	464.0	478.8
45°	394.7	402.1	420.7	447.9	464.0
47.5°	370.0	378.6	399.7	430.6	449.1
50°	345.2	355.1	378.6	413.3	433.1
52.5°	319.2	330.4	358.8	394.7	415.7
55°	293.2	305.6	339.0	376.1	397.2
57.5°	267.3	280.9	318.0	356.3	377.4
60°	241.3	256.1	297.0	336.6	357.6
62.5°	215.3	231.4	274.7	314.3	336.6
65°	188.1	207.9	252.4	292.0	313.0
67.5°	160.9	184.4	230.1	268.5	288.3
70°	134.9	160.9	206.6	242.5	261.1
72.5°	110.1	137.3	181.9	212.8	220.2
75°	86.6	115.1	155.9	165.8	168.3
77.5°	66.8	92.8	123.7	126.2	132.4
80°	48.3	70.5	84.1	91.6	94.0
82.5°	33.4	48.3	55.7	56.9	58.2
85°	21.0	26.0	28.5	27.2	27.2
87.5°	11.1	9.9	8.7	6.2	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)