

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: P260456

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260456  
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-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: 1793.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

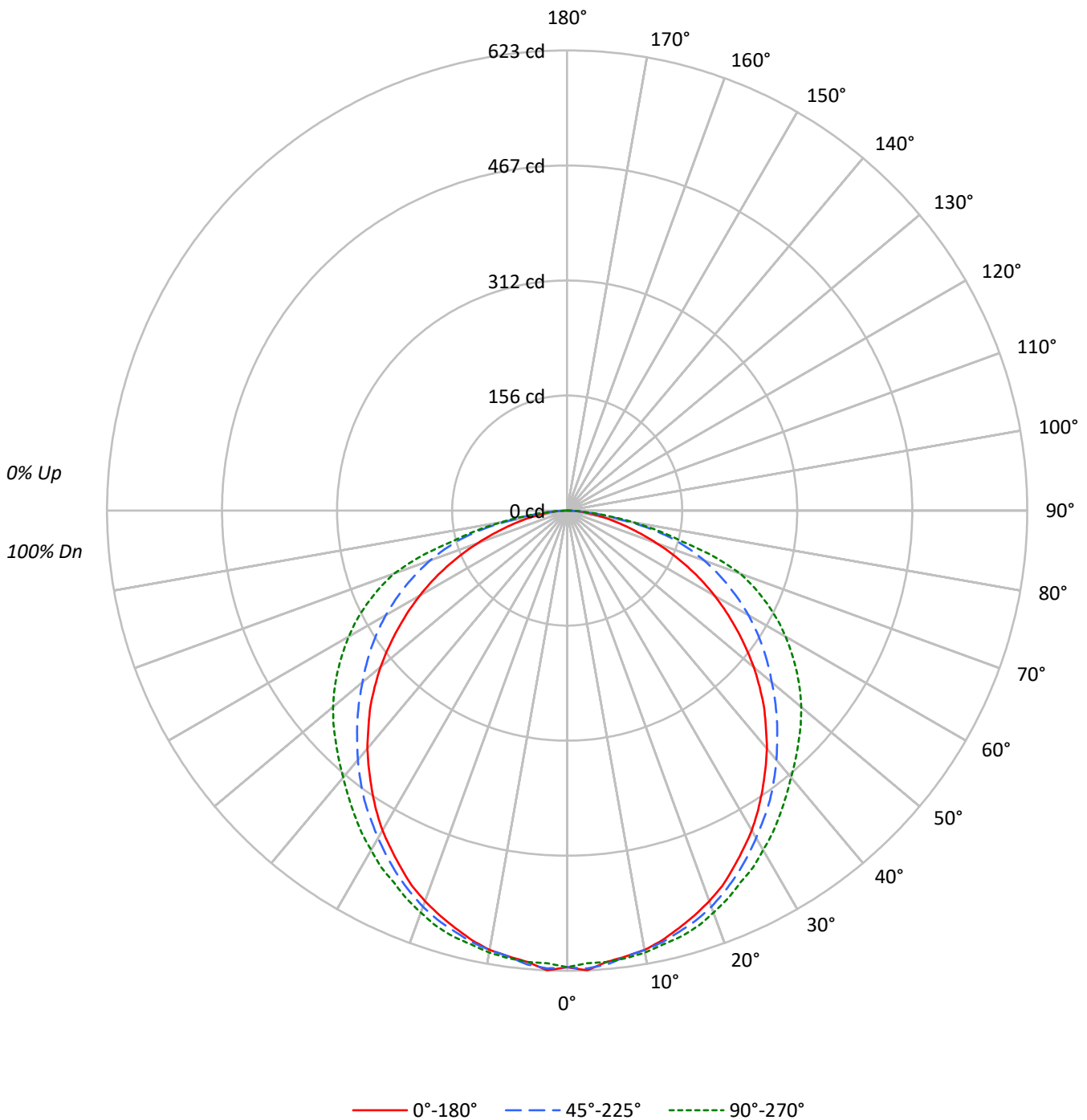
Input Watts (W): 17.763  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1664	1664	1664
5°	1657	1667	1657
10°	1650	1650	1660
15°	1630	1643	1663
20°	1611	1635	1659
25°	1583	1614	1649
30°	1554	1590	1649
35°	1514	1573	1650
40°	1478	1549	1657
45°	1435	1529	1687
50°	1381	1514	1732
55°	1314	1520	1780
60°	1241	1527	1838
65°	1144	1535	1904
70°	1013	1553	1962
75°	860	1548	1671
80°	714	1246	1392
85°	621	840	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	3.3
10°-20°	166.6	9.3
20°-30°	250.6	14.0
30°-40°	300.4	16.8
40°-50°	313.2	17.5
50°-60°	291.6	16.3
60°-70°	236.8	13.2
70°-80°	142.7	8.0
80°-90°	32.7	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°	475.6	26.5
0°-40°	776.0	43.3
0°-60°	1380.8	77.0
0°-90°	1793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	613	613	617	618	613	58
15°	585	587	590	593	597	165
25°	533	537	544	551	556	246
35°	461	467	479	493	502	289
45°	377	384	402	428	443	290
55°	280	292	324	359	379	250
65°	180	199	241	279	299	178
75°	83	110	149	158	161	89
85°	20	25	27	26	26	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	618.2	618.2	618.2	618.2	618.2
2.5°	622.9	621.7	620.5	617.0	613.4
5°	613.4	613.4	617.0	618.2	613.4
7.5°	608.7	608.7	608.7	613.4	611.1
10°	604.0	604.0	604.0	607.5	607.5
12.5°	595.7	596.9	598.1	599.2	601.6
15°	585.1	587.4	589.8	593.3	596.9
17.5°	574.4	576.8	581.5	585.1	589.8
20°	562.6	565.0	570.9	574.4	579.2
22.5°	549.6	550.8	557.9	562.6	568.5
25°	533.1	536.6	543.7	550.8	555.5
27.5°	516.5	520.1	528.3	537.8	544.9
30°	500.0	503.5	511.8	523.6	530.7
32.5°	481.1	485.8	495.2	509.4	517.7
35°	461.0	466.9	478.7	492.9	502.3
37.5°	440.9	446.8	459.8	477.5	487.0
40°	420.8	426.7	440.9	459.8	471.6
42.5°	398.3	405.4	420.8	443.2	457.4
45°	377.0	384.1	401.9	427.9	443.2
47.5°	353.4	361.7	381.8	411.3	429.0
50°	329.8	339.2	361.7	394.8	413.7
52.5°	304.9	315.6	342.8	377.0	397.1
55°	280.1	291.9	323.9	359.3	379.4
57.5°	255.3	268.3	303.8	340.4	360.5
60°	230.5	244.7	283.7	321.5	341.6
62.5°	205.7	221.0	262.4	300.2	321.5
65°	179.7	198.6	241.1	278.9	299.0
67.5°	153.7	176.1	219.8	256.5	275.4
70°	128.8	153.7	197.4	231.7	249.4
72.5°	105.2	131.2	173.7	203.3	210.4
75°	82.7	109.9	148.9	158.4	160.7
77.5°	63.8	88.6	118.2	120.6	126.5
80°	46.1	67.4	80.4	87.5	89.8
82.5°	31.9	46.1	53.2	54.4	55.6
85°	20.1	24.8	27.2	26.0	26.0
87.5°	10.6	9.5	8.3	5.9	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)