

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: P259214

Luminaire Tested: **22CZ-LD5-24-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259214  
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-LD5-24-UNV-L83050-W2A1-U-3500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2437.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 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

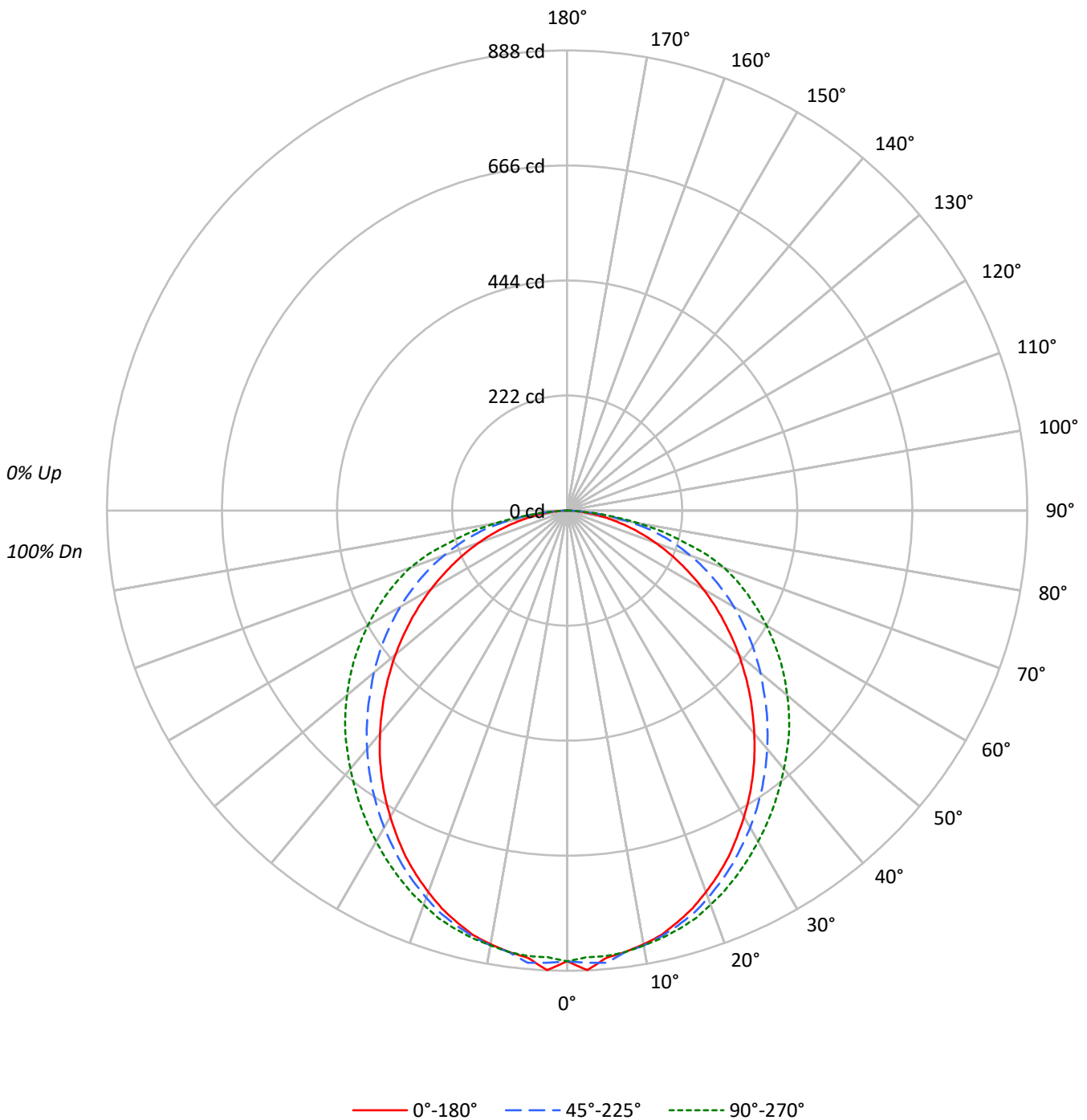
Input Watts (W): 17.577  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	2341	2341	2341
5°	2340	2366	2330
10°	2322	2328	2328
15°	2291	2308	2328
20°	2243	2277	2318
25°	2189	2238	2305
30°	2121	2195	2290
35°	2052	2153	2285
40°	1973	2111	2285
45°	1894	2070	2305
50°	1811	2039	2322
55°	1724	2018	2352
60°	1633	2003	2392
65°	1532	1992	2453
70°	1426	1986	2536
75°	1293	1984	2403
80°	1120	1836	2131
85°	951	1389	1352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.4
10°-20°	233.7	9.6
20°-30°	347.6	14.3
30°-40°	411.1	16.9
40°-50°	422.6	17.3
50°-60°	386.2	15.8
60°-70°	308.9	12.7
70°-80°	193.9	8.0
80°-90°	50.5	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°	663.8	27.2
0°-40°	1075.0	44.1
0°-60°	1883.7	77.3
0°-90°	2437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2437.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	866	866	876	870	863	82
15°	822	824	828	833	836	232
25°	737	742	754	767	776	339
35°	624	633	655	680	696	390
45°	498	511	544	584	606	384
55°	367	385	430	478	501	329
65°	241	262	313	360	385	239
75°	124	148	191	219	231	132
85°	31	39	45	44	44	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	869.8	869.8	869.8	869.8	869.8
2.5°	887.6	884.1	873.4	866.3	862.7
5°	866.3	866.3	875.8	869.8	862.7
7.5°	859.2	859.2	859.2	877.0	859.2
10°	849.7	850.9	852.1	859.2	852.1
12.5°	839.0	839.0	841.4	843.8	845.0
15°	822.4	823.6	828.4	833.1	835.5
17.5°	804.7	808.2	814.1	820.1	824.8
20°	783.3	788.1	795.2	804.7	809.4
22.5°	760.8	765.6	775.0	785.7	794.0
25°	737.1	741.9	753.7	766.7	776.2
27.5°	709.9	715.8	730.0	747.8	757.3
30°	682.6	689.7	706.3	726.5	737.1
32.5°	654.2	662.5	681.4	703.9	717.0
35°	624.5	632.8	655.3	680.2	695.6
37.5°	593.7	603.2	628.1	656.5	673.1
40°	561.7	572.4	600.8	631.6	650.6
42.5°	529.7	541.6	572.4	609.1	628.1
45°	497.7	510.8	544.0	584.2	605.6
47.5°	464.6	480.0	514.3	559.4	580.7
50°	432.6	448.0	487.1	533.3	554.6
52.5°	399.4	417.1	458.6	506.0	528.5
55°	367.4	385.2	430.2	477.6	501.3
57.5°	335.4	353.2	400.6	449.1	472.8
60°	303.4	322.3	372.1	419.5	444.4
62.5°	271.4	291.5	342.5	391.1	414.8
65°	240.6	261.9	312.9	360.3	385.2
67.5°	210.9	233.5	283.2	329.5	354.3
70°	181.3	203.8	252.4	297.5	322.3
72.5°	152.9	175.4	222.8	263.1	282.0
75°	124.4	148.1	190.8	219.2	231.1
77.5°	97.2	120.9	157.6	176.6	189.6
80°	72.3	92.4	118.5	132.7	137.5
82.5°	49.8	66.4	83.0	86.5	88.9
85°	30.8	39.1	45.0	43.8	43.8
87.5°	14.2	15.4	13.0	9.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)