

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: P275469

Luminaire Tested: **14CZ2-29-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2894.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

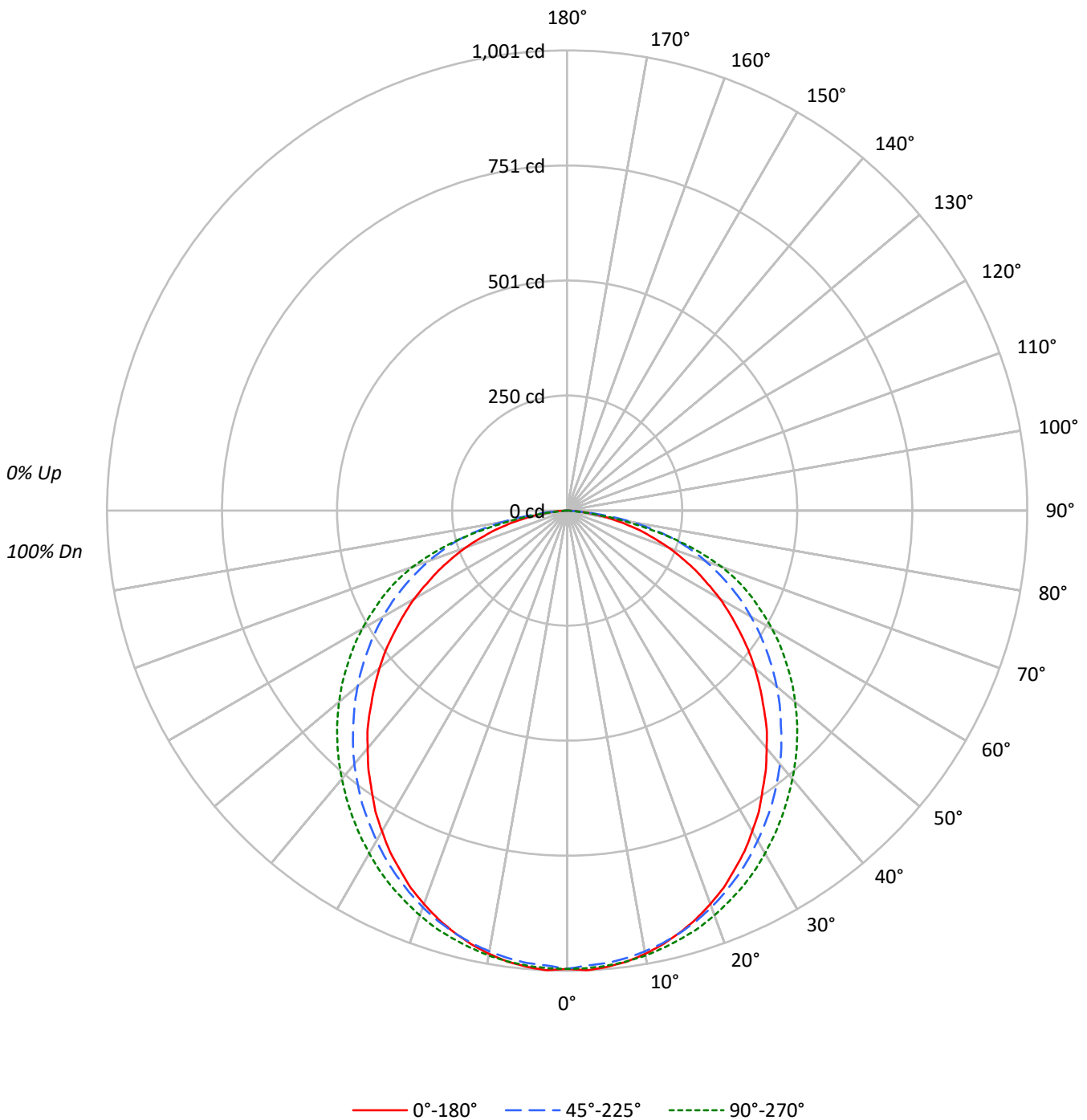
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	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	58
4	82	70	61	54	79	68	60	53	66	58	53	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2683	2683	2683
5°	2691	2669	2685
10°	2675	2661	2685
15°	2646	2648	2684
20°	2607	2630	2683
25°	2558	2604	2681
30°	2502	2577	2675
35°	2436	2554	2673
40°	2371	2530	2677
45°	2299	2503	2692
50°	2231	2491	2709
55°	2146	2482	2734
60°	2070	2486	2772
65°	1964	2494	2814
70°	1843	2513	2813
75°	1671	2536	2543
80°	1370	2190	1810
85°	1016	1037	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	3.3
10°-20°	269.5	9.3
20°-30°	406.0	14.0
30°-40°	487.2	16.8
40°-50°	507.8	17.5
50°-60°	470.1	16.2
60°-70°	379.8	13.1
70°-80°	231.6	8.0
80°-90°	47.8	1.7
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°	769.8	26.6
0°-40°	1257.0	43.4
0°-60°	2234.8	77.2
0°-90°	2894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	996	994	988	995	994	95
15°	950	950	950	963	963	268
25°	862	867	877	899	903	397
35°	742	753	778	806	814	464
45°	604	622	658	694	707	467
55°	458	481	529	570	583	410
65°	308	339	392	431	442	305
75°	161	196	244	248	245	169
85°	33	49	34	19	14	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	997.0	997.0	997.0	997.0	997.0
2.5°	1000.9	997.6	990.5	997.6	996.3
5°	996.3	993.8	988.0	995.1	993.8
7.5°	989.9	987.3	982.2	990.5	989.2
10°	978.9	977.6	973.8	983.4	982.8
12.5°	966.0	965.4	963.4	974.4	973.8
15°	949.9	950.5	950.5	963.4	963.4
17.5°	931.8	933.1	935.7	949.9	951.8
20°	910.5	913.1	918.3	934.4	937.0
22.5°	888.6	890.5	898.3	917.6	920.2
25°	861.5	866.6	877.0	898.9	902.8
27.5°	835.7	840.2	854.4	877.0	883.4
30°	805.3	812.4	829.2	853.7	860.8
32.5°	776.3	784.0	803.4	831.8	838.2
35°	741.5	753.1	777.6	806.0	813.7
37.5°	709.8	720.8	748.6	779.5	788.6
40°	675.0	688.5	720.2	753.1	762.1
42.5°	642.7	655.6	689.8	723.4	735.6
45°	604.0	622.1	657.6	694.3	707.3
47.5°	568.5	586.6	627.2	666.6	678.2
50°	533.0	552.4	595.0	635.6	647.2
52.5°	496.2	516.9	562.7	603.4	616.9
55°	457.5	481.4	529.1	570.4	582.7
57.5°	420.7	445.3	496.2	538.2	550.4
60°	384.6	409.8	462.0	502.0	515.0
62.5°	344.6	374.3	428.5	467.8	477.5
65°	308.5	338.8	391.7	431.1	442.0
67.5°	270.4	303.3	356.2	392.3	402.7
70°	234.2	268.4	319.4	353.0	357.5
72.5°	195.5	230.4	282.0	303.3	303.3
75°	160.7	196.2	243.9	247.8	244.6
77.5°	122.6	162.0	192.9	185.2	177.5
80°	88.4	127.1	141.3	127.1	116.8
82.5°	59.4	92.3	85.2	67.8	60.0
85°	32.9	49.0	33.6	18.7	13.6
87.5°	12.3	11.0	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)