

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: P275468

Luminaire Tested: **14CZ2-29-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275468  
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-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2831.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

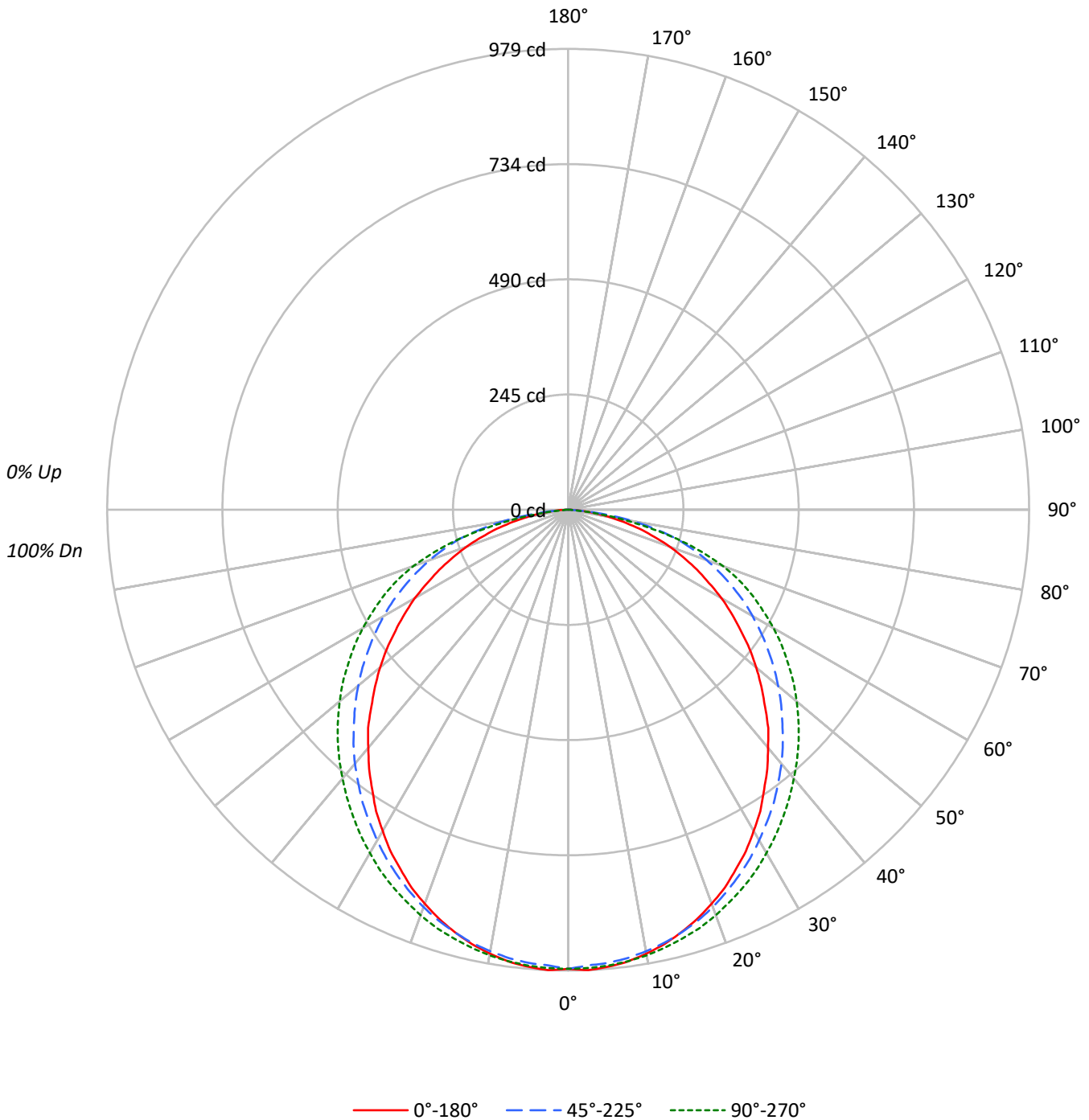
Input Watts (W): 22.227  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2625	2625	2625
5°	2633	2611	2626
10°	2617	2603	2627
15°	2589	2590	2626
20°	2551	2572	2625
25°	2502	2547	2622
30°	2448	2521	2617
35°	2383	2499	2615
40°	2320	2475	2619
45°	2249	2448	2633
50°	2183	2436	2650
55°	2100	2428	2674
60°	2025	2433	2711
65°	1921	2440	2753
70°	1803	2459	2751
75°	1634	2481	2487
80°	1340	2142	1771
85°	994	1013	411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	3.3
10°-20°	263.6	9.3
20°-30°	397.1	14.0
30°-40°	476.6	16.8
40°-50°	496.7	17.5
50°-60°	459.8	16.2
60°-70°	371.5	13.1
70°-80°	226.5	8.0
80°-90°	46.8	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°	753.1	26.6
0°-40°	1229.6	43.4
0°-60°	2186.2	77.2
0°-90°	2831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	975	972	966	973	972	93
15°	929	930	930	942	942	262
25°	843	848	858	879	883	388
35°	725	737	761	788	796	454
45°	591	608	643	679	692	457
55°	448	471	518	558	570	401
65°	302	331	383	422	432	298
75°	157	192	239	242	239	165
85°	32	48	33	18	13	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	975.3	975.3	975.3	975.3	975.3
2.5°	979.1	975.9	969.0	975.9	974.7
5°	974.7	972.1	966.5	973.4	972.1
7.5°	968.3	965.8	960.8	969.0	967.7
10°	957.6	956.4	952.6	962.0	961.4
12.5°	945.0	944.4	942.5	953.2	952.6
15°	929.2	929.8	929.8	942.5	942.5
17.5°	911.5	912.8	915.3	929.2	931.1
20°	890.7	893.2	898.3	914.1	916.6
22.5°	869.2	871.1	878.7	897.6	900.2
25°	842.7	847.8	857.9	879.3	883.1
27.5°	817.5	821.9	835.8	857.9	864.2
30°	787.8	794.7	811.2	835.2	842.1
32.5°	759.4	767.0	785.9	813.7	820.0
35°	725.3	736.7	760.7	788.4	796.0
37.5°	694.4	705.1	732.3	762.6	771.4
40°	660.3	673.5	704.5	736.7	745.5
42.5°	628.7	641.4	674.8	707.6	719.6
45°	590.9	608.5	643.2	679.2	691.9
47.5°	556.1	573.8	613.6	652.1	663.4
50°	521.4	540.4	582.0	621.8	633.1
52.5°	485.4	505.6	550.5	590.2	603.5
55°	447.6	470.9	517.6	558.0	570.0
57.5°	411.6	435.6	485.4	526.5	538.5
60°	376.2	400.8	452.0	491.1	503.7
62.5°	337.1	366.1	419.2	457.7	467.1
65°	301.7	331.4	383.2	421.7	432.4
67.5°	264.5	296.7	348.5	383.8	393.9
70°	229.1	262.6	312.5	345.3	349.7
72.5°	191.3	225.4	275.9	296.7	296.7
75°	157.2	191.9	238.6	242.4	239.2
77.5°	119.9	158.4	188.7	181.2	173.6
80°	86.5	124.4	138.2	124.4	114.3
82.5°	58.1	90.3	83.3	66.3	58.7
85°	32.2	48.0	32.8	18.3	13.3
87.5°	12.0	10.7	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)