

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: P275600

Luminaire Tested: **14CZ2-29-S-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-S-UNV-L93050-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2736.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

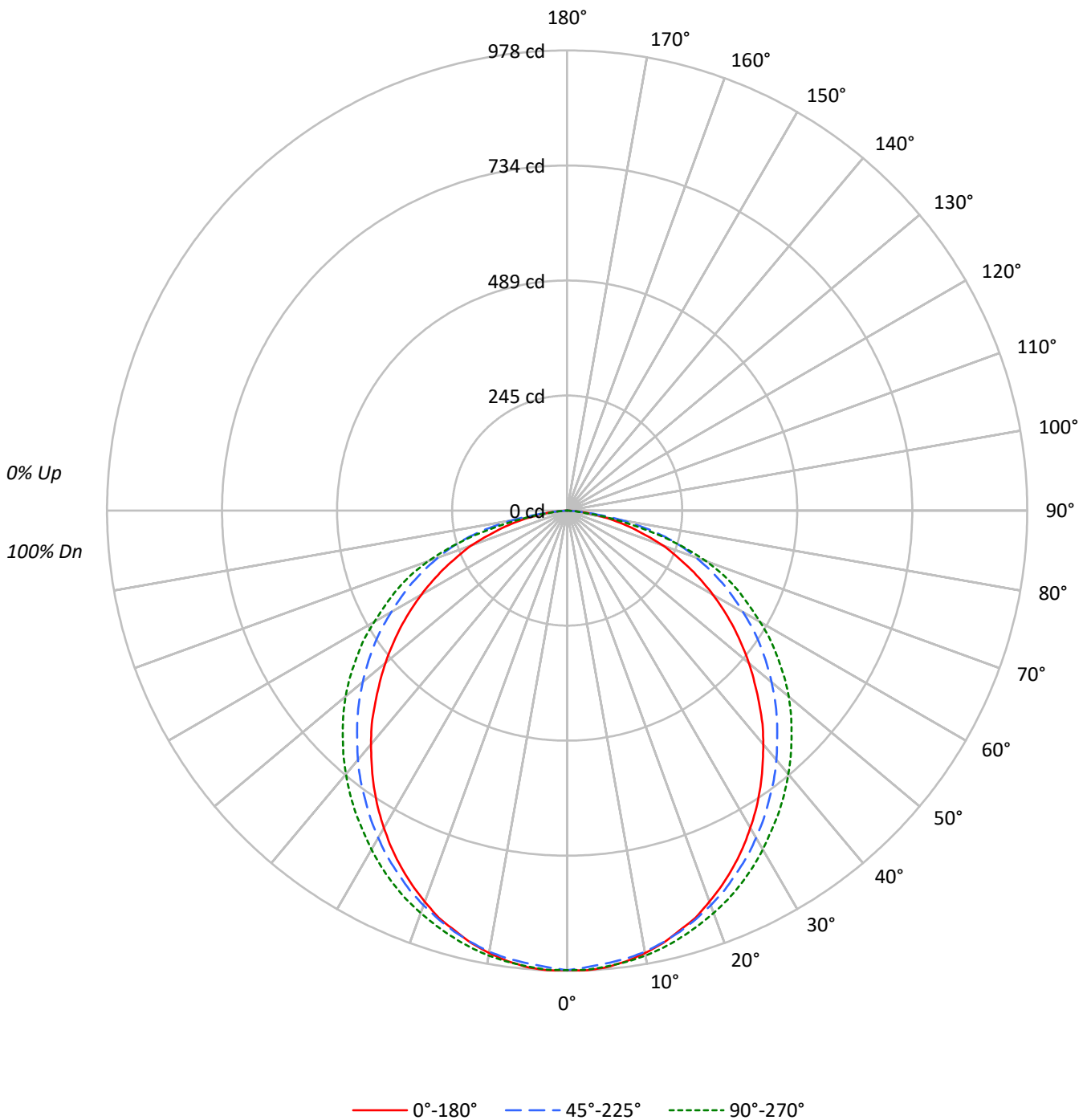
Input Watts (W): 23.064  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2628	2628	2628
5°	2631	2609	2627
10°	2610	2602	2624
15°	2574	2581	2615
20°	2533	2556	2607
25°	2481	2525	2598
30°	2420	2495	2584
35°	2353	2460	2576
40°	2278	2430	2569
45°	2194	2401	2566
50°	2112	2374	2573
55°	2024	2355	2565
60°	1927	2322	2548
65°	1814	2315	2548
70°	1707	2295	2476
75°	1481	2243	2116
80°	1198	1808	1409
85°	797	627	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	3.4
10°-20°	262.4	9.6
20°-30°	393.7	14.4
30°-40°	469.6	17.2
40°-50°	485.5	17.7
50°-60°	443.3	16.2
60°-70°	348.8	12.7
70°-80°	203.0	7.4
80°-90°	37.4	1.4
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°	748.3	27.4
0°-40°	1218.0	44.5
0°-60°	2146.7	78.5
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	974	971	966	974	973	92
15°	924	925	926	939	939	261
25°	836	840	850	871	875	385
35°	716	726	749	777	784	448
45°	576	596	631	666	674	445
55°	431	454	502	538	547	386
65°	285	315	364	392	400	283
75°	142	176	216	212	204	151
85°	26	37	20	16	14	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	976.7	976.7	976.7	976.7	976.7
2.5°	978.1	975.4	971.3	978.1	976.7
5°	974.0	971.3	965.9	974.0	972.6
7.5°	965.9	963.1	960.4	968.6	967.2
10°	955.0	953.6	952.3	961.8	960.4
12.5°	941.4	941.4	940.1	950.9	950.9
15°	923.8	925.2	926.5	938.7	938.7
17.5°	907.5	906.2	910.2	923.8	925.2
20°	884.5	887.2	892.6	908.9	910.2
22.5°	861.4	864.1	873.6	889.9	894.0
25°	835.6	839.7	850.5	870.9	875.0
27.5°	808.5	813.9	828.8	850.5	854.6
30°	778.7	786.8	803.1	827.5	831.6
32.5°	748.8	756.9	777.3	801.7	807.1
35°	716.3	725.7	748.8	777.3	784.1
37.5°	682.3	694.5	721.7	750.2	758.3
40°	648.4	662.0	691.8	721.7	731.2
42.5°	614.5	628.1	660.6	694.5	704.0
45°	576.5	595.5	630.8	666.1	674.2
47.5°	539.9	560.2	599.6	634.9	645.7
50°	504.6	525.0	567.0	603.7	614.5
52.5°	468.0	489.7	534.5	572.5	582.0
55°	431.4	454.4	501.9	538.5	546.7
57.5°	394.8	419.2	468.0	503.3	512.8
60°	358.1	383.9	431.4	466.6	473.4
62.5°	321.5	348.6	397.5	428.7	435.4
65°	284.9	314.7	363.6	392.0	400.2
67.5°	249.6	279.4	326.9	354.1	360.8
70°	217.0	244.2	291.7	312.0	314.7
72.5°	176.3	210.3	256.4	267.2	260.5
75°	142.4	176.3	215.7	211.6	203.5
77.5°	108.5	142.4	168.2	154.6	143.8
80°	77.3	111.2	116.7	96.3	90.9
82.5°	50.2	77.3	65.1	50.2	40.7
85°	25.8	36.6	20.3	16.3	13.6
87.5°	8.1	5.4	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)