

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: P277295

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2740.0 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

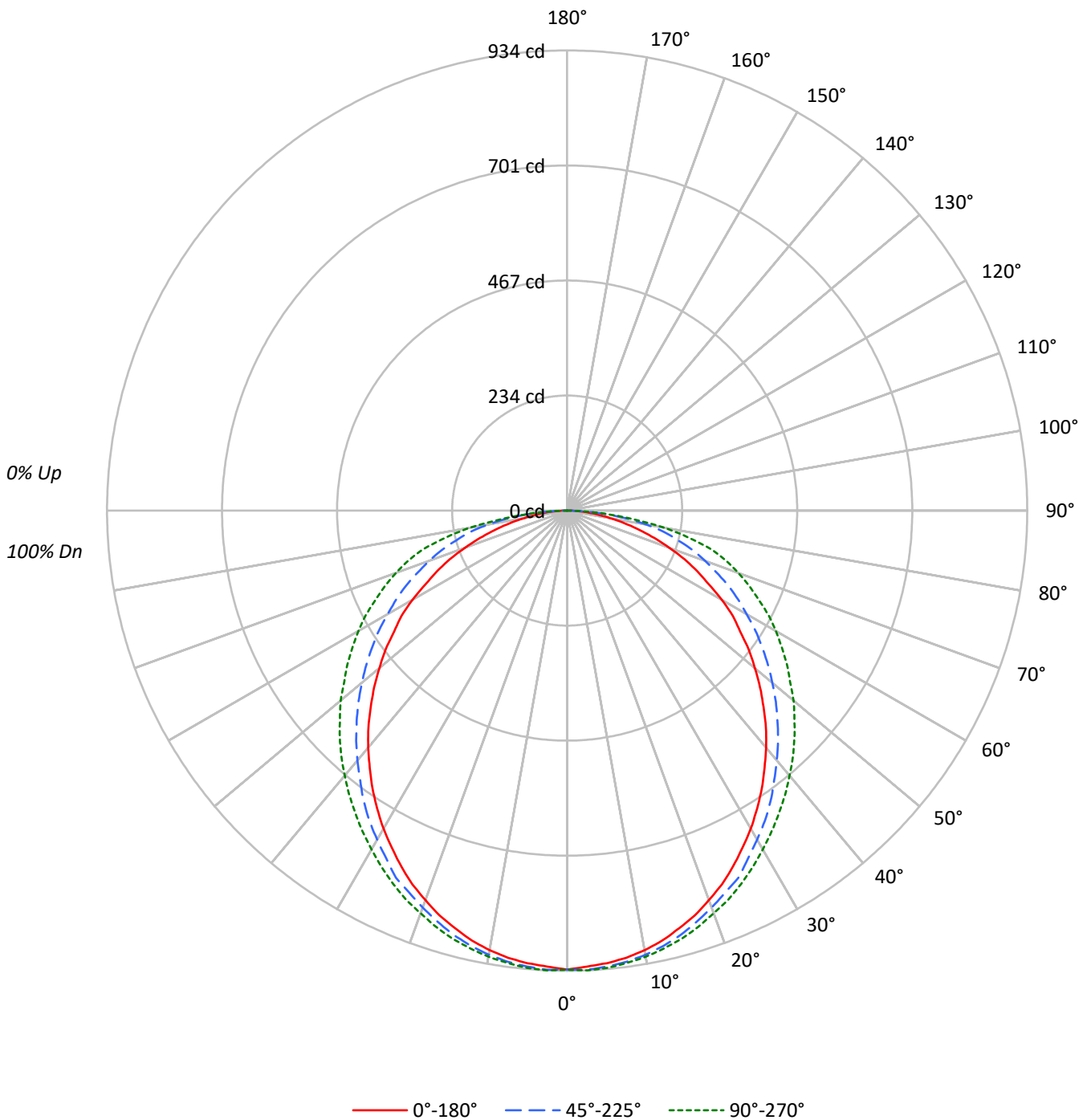
Input Watts (W): 25.761  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2507	2507	2507
5°	2491	2509	2517
10°	2476	2502	2513
15°	2445	2483	2505
20°	2409	2456	2490
25°	2366	2442	2482
30°	2317	2396	2467
35°	2263	2365	2462
40°	2207	2325	2467
45°	2145	2299	2484
50°	2083	2275	2512
55°	2011	2265	2556
60°	1952	2264	2634
65°	1854	2301	2730
70°	1729	2345	2906
75°	1585	2425	3140
80°	1379	2528	3092
85°	1207	2248	2455



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	3.2
10°-20°	251.0	9.2
20°-30°	376.7	13.7
30°-40°	450.2	16.4
40°-50°	468.1	17.1
50°-60°	433.9	15.8
60°-70°	355.9	13.0
70°-80°	240.6	8.8
80°-90°	75.6	2.8
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°	715.8	26.1
0°-40°	1166.0	42.6
0°-60°	2068.0	75.5
0°-90°	2740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	922	924	929	930	932	88
15°	878	882	891	897	899	248
25°	797	804	822	832	836	367
35°	689	698	720	742	750	431
45°	564	574	604	639	653	435
55°	429	442	483	526	545	385
65°	291	307	361	408	429	288
75°	152	178	233	280	302	162
85°	39	54	73	81	80	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.7	931.7	931.7	931.7	931.7
2.5°	926.3	929.0	933.0	934.3	934.3
5°	922.2	923.6	929.0	930.3	931.7
7.5°	915.5	918.2	923.6	924.9	926.3
10°	906.0	908.7	915.5	918.2	919.5
12.5°	893.9	896.6	904.7	908.7	910.1
15°	877.7	881.8	891.2	896.6	899.3
17.5°	861.5	865.6	875.0	883.1	885.8
20°	841.3	850.8	857.5	868.3	869.6
22.5°	821.1	826.5	838.6	849.4	854.8
25°	796.8	803.6	822.4	831.9	835.9
27.5°	771.2	780.6	795.5	810.3	815.7
30°	745.6	752.3	771.2	788.7	794.1
32.5°	717.3	726.7	746.9	764.5	772.6
35°	689.0	698.4	720.0	741.5	749.6
37.5°	658.0	668.7	690.3	715.9	726.7
40°	628.3	636.4	662.0	693.0	702.4
42.5°	597.3	606.7	633.7	667.4	678.2
45°	563.6	574.4	604.0	639.1	652.6
47.5°	531.2	542.0	574.4	609.4	625.6
50°	497.5	511.0	543.4	583.8	600.0
52.5°	465.2	477.3	513.7	555.5	570.3
55°	428.7	442.2	482.7	525.8	544.7
57.5°	399.1	408.5	453.0	497.5	516.4
60°	362.7	374.8	420.7	467.8	489.4
62.5°	323.6	343.8	391.0	439.5	461.1
65°	291.2	307.4	361.3	408.5	428.7
67.5°	257.5	275.0	327.6	377.5	400.4
70°	219.8	242.7	298.0	347.9	369.4
72.5°	186.1	210.3	267.0	315.5	338.4
75°	152.4	178.0	233.2	280.4	302.0
77.5°	120.0	148.3	202.2	238.6	252.1
80°	89.0	116.0	163.1	188.8	199.5
82.5°	62.0	84.9	120.0	133.5	136.2
85°	39.1	53.9	72.8	80.9	79.5
87.5°	17.5	21.6	27.0	29.7	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)