

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: P842935

Luminaire Tested: **22CZ2-34HE-HRP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-HRP-UNV-B35  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

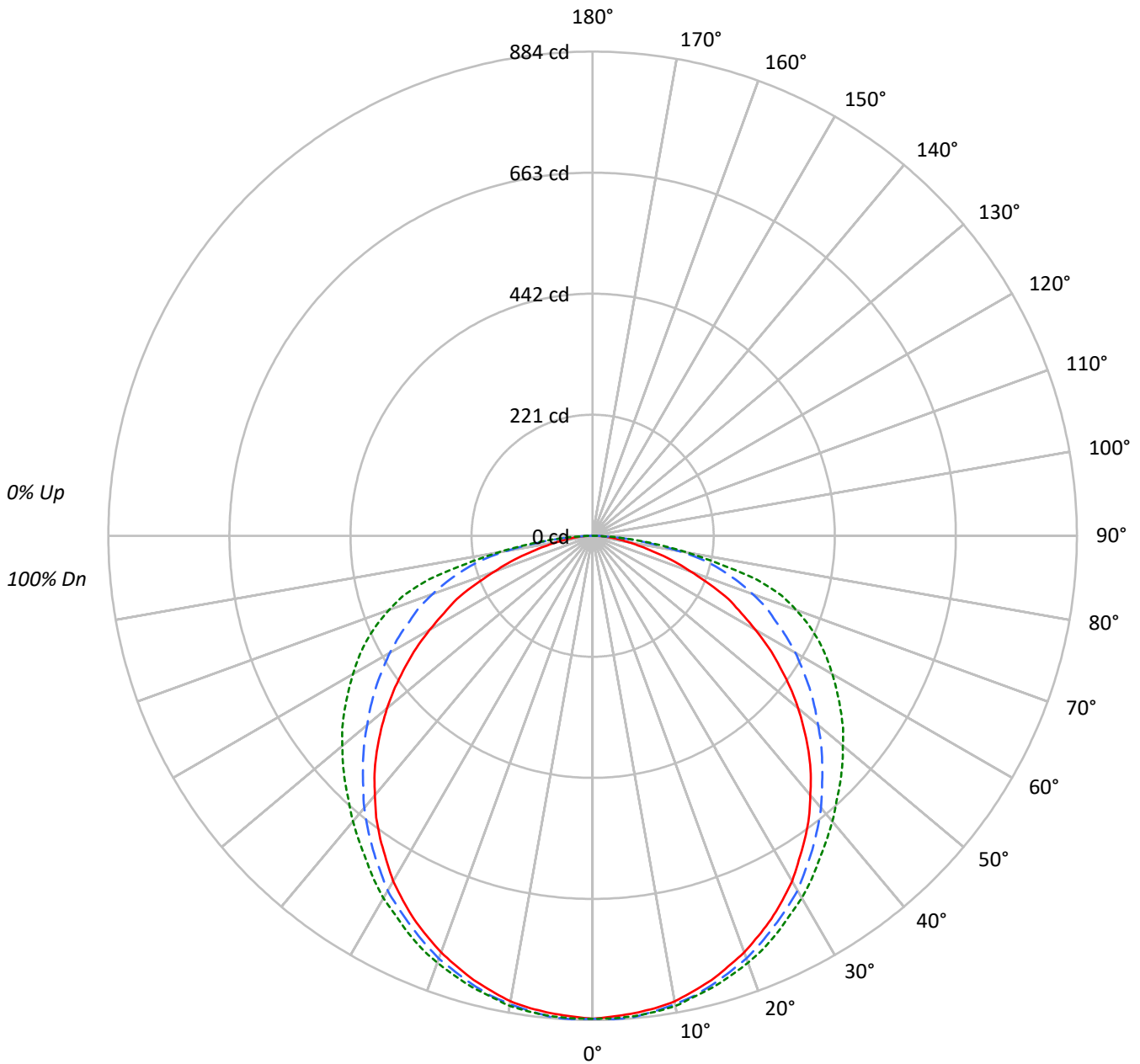
Lumens per Lamp: N/A  
Luminaire Lumens: 2678.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
Input Voltage (V): NR  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

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

	0°	45°	90°
0°	2502	2502	2502
5°	2493	2512	2507
10°	2487	2502	2512
15°	2466	2491	2506
20°	2443	2479	2505
25°	2417	2460	2502
30°	2386	2452	2502
35°	2341	2423	2499
40°	2290	2403	2522
45°	2238	2379	2563
50°	2163	2372	2633
55°	2064	2390	2733
60°	1947	2426	2866
65°	1838	2472	3063
70°	1569	2579	3279
75°	1315	2686	3407
80°	1077	2595	2843
85°	938	1927	2087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	3.1
10°-20°	239.1	8.9
20°-30°	362.3	13.5
30°-40°	437.5	16.3
40°-50°	459.7	17.2
50°-60°	432.5	16.2
60°-70°	360.6	13.5
70°-80°	239.0	8.9
80°-90°	63.7	2.4
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°	685.0	25.6
0°-40°	1122.5	41.9
0°-60°	2014.7	75.2
0°-90°	2678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	875	877	882	882	880	83
15°	840	843	848	851	853	237
25°	772	777	786	796	799	355
35°	676	682	699	715	721	423
45°	558	566	593	623	639	429
55°	417	436	483	532	552	373
65°	274	297	368	429	456	266
75°	120	167	245	296	311	130
85°	29	44	59	64	64	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	881.8	881.8	881.8	881.8	881.8
2.5°	878.5	880.2	883.6	883.6	881.8
5°	875.1	876.7	881.8	881.8	880.2
7.5°	870.0	871.8	875.1	878.5	876.7
10°	863.3	864.8	868.4	871.8	871.8
12.5°	851.4	853.0	859.9	861.5	861.5
15°	839.6	843.0	848.1	851.4	853.0
17.5°	824.4	827.8	834.5	841.4	841.4
20°	809.2	812.6	821.1	827.8	829.5
22.5°	790.7	795.6	804.1	812.6	815.9
25°	772.0	777.1	785.6	795.6	799.0
27.5°	750.1	755.2	767.0	778.9	780.4
30°	728.2	733.1	748.3	758.5	763.7
32.5°	701.1	707.9	723.0	738.2	743.4
35°	675.7	682.4	699.4	714.6	721.3
37.5°	648.7	655.4	674.1	692.7	701.1
40°	618.3	626.8	648.7	669.0	680.8
42.5°	589.5	598.0	619.9	647.1	658.7
45°	557.6	565.8	592.9	623.4	638.6
47.5°	523.6	533.9	565.8	603.1	618.3
50°	489.9	501.7	537.3	579.5	596.4
52.5°	454.4	469.6	510.2	555.8	576.1
55°	417.3	435.9	483.2	532.1	552.4
57.5°	381.8	398.6	454.4	506.9	528.8
60°	343.0	364.9	427.4	481.4	505.1
62.5°	305.7	329.4	398.6	456.2	481.4
65°	273.8	297.2	368.2	429.2	456.2
67.5°	231.3	263.5	343.0	400.4	427.4
70°	189.1	233.1	310.8	370.0	395.2
72.5°	157.2	199.4	278.7	337.9	361.5
75°	119.9	167.2	245.0	295.6	310.8
77.5°	89.5	138.5	209.5	234.9	236.5
80°	65.9	106.5	158.8	167.2	174.0
82.5°	45.6	74.4	103.0	113.2	116.6
85°	28.8	44.0	59.2	64.1	64.1
87.5°	15.2	17.0	20.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)