

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: P881092

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P881092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34VHE-HRP-UNV-B35  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

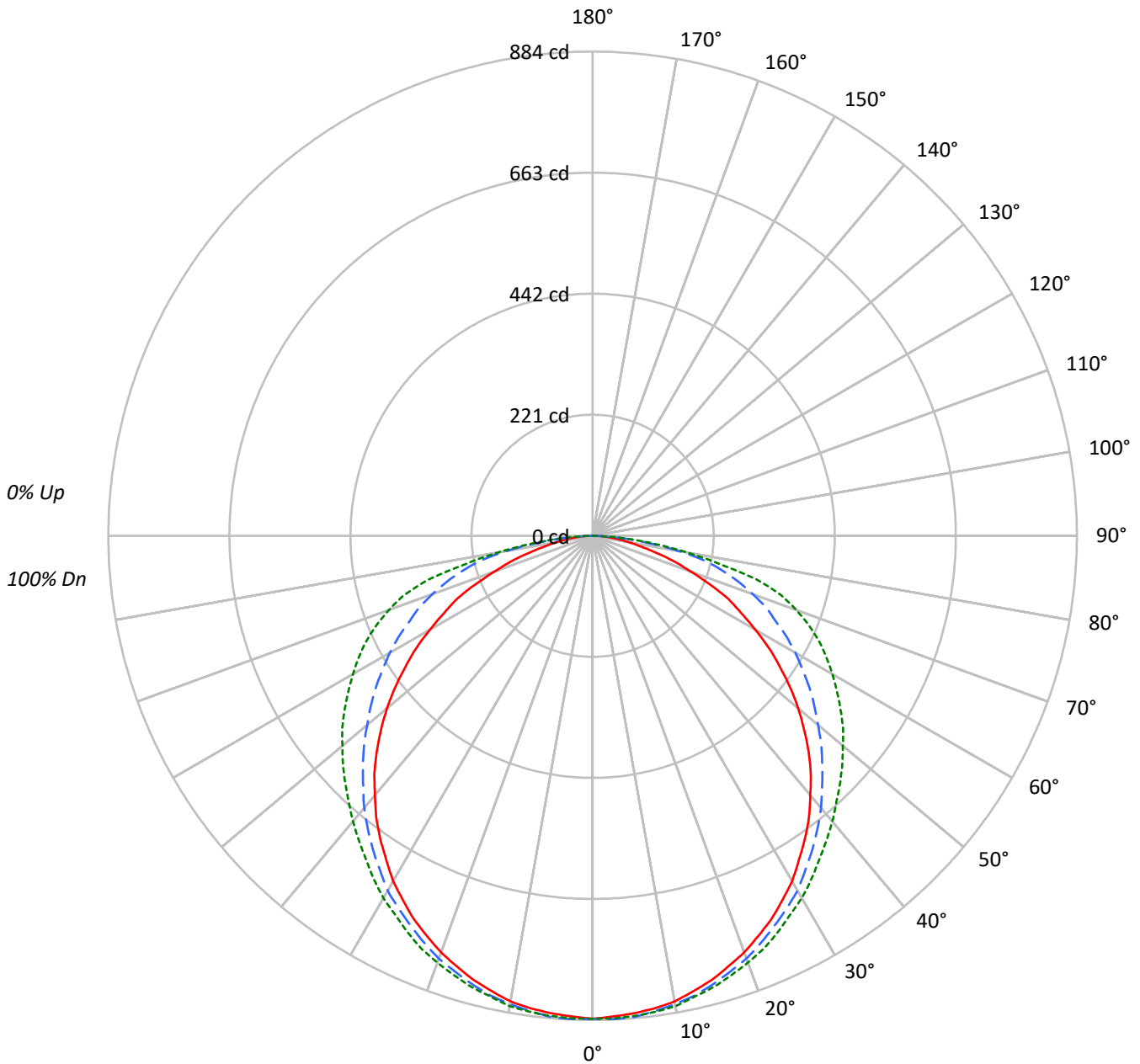
Lumens per Lamp: N/A  
Luminaire Lumens: 2678.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 27  
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	2504
25°	2417	2460	2502
30°	2386	2452	2502
35°	2341	2423	2499
40°	2290	2403	2522
45°	2237	2380	2563
50°	2163	2371	2632
55°	2064	2390	2733
60°	1946	2425	2866
65°	1838	2473	3063
70°	1570	2579	3280
75°	1316	2687	3409
80°	1078	2595	2843
85°	934	1924	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°	557	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°	878.4	880.1	883.5	883.5	881.8
5°	875.1	876.7	881.8	881.8	880.1
7.5°	870.0	871.9	875.1	878.4	876.7
10°	863.2	864.9	868.3	871.9	871.9
12.5°	851.4	853.1	859.9	861.7	861.7
15°	839.6	843.0	848.1	851.4	853.1
17.5°	824.4	827.8	834.6	841.3	841.3
20°	809.2	812.6	821.1	827.8	829.3
22.5°	790.7	795.7	804.2	812.6	816.0
25°	772.1	777.2	785.6	795.7	799.1
27.5°	750.0	755.1	767.0	778.9	780.4
30°	728.1	733.1	748.3	758.4	763.7
32.5°	701.1	707.8	723.0	738.2	743.3
35°	675.7	682.5	699.4	714.7	721.3
37.5°	648.7	655.3	674.1	692.8	701.1
40°	618.2	626.8	648.7	669.0	680.8
42.5°	589.7	598.1	620.1	647.1	658.9
45°	557.4	565.9	593.0	623.3	638.6
47.5°	523.7	533.8	565.9	603.2	618.2
50°	489.9	501.7	537.2	579.4	596.3
52.5°	454.3	469.7	510.2	555.9	576.0
55°	417.2	435.9	483.2	532.1	552.4
57.5°	381.8	398.8	454.3	506.8	528.7
60°	342.9	364.9	427.3	481.3	505.1
62.5°	305.8	329.4	398.8	456.2	481.3
65°	273.7	297.2	368.3	429.0	456.2
67.5°	231.4	263.6	342.9	400.3	427.3
70°	189.2	233.1	310.9	369.9	395.3
72.5°	157.1	199.3	278.8	337.9	361.5
75°	120.0	167.2	245.1	295.7	310.9
77.5°	89.6	138.6	209.4	234.9	236.4
80°	66.0	106.3	158.8	167.2	174.0
82.5°	45.7	74.3	103.1	113.1	116.6
85°	28.7	43.9	59.1	64.1	64.1
87.5°	15.2	16.9	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)