

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:

Report Number: P842845

Luminaire Tested: **14CZ2-35-HRP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer:  
Product Line:  
Catalog Number: 14CZ2-35-HRP-UNV-B35  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

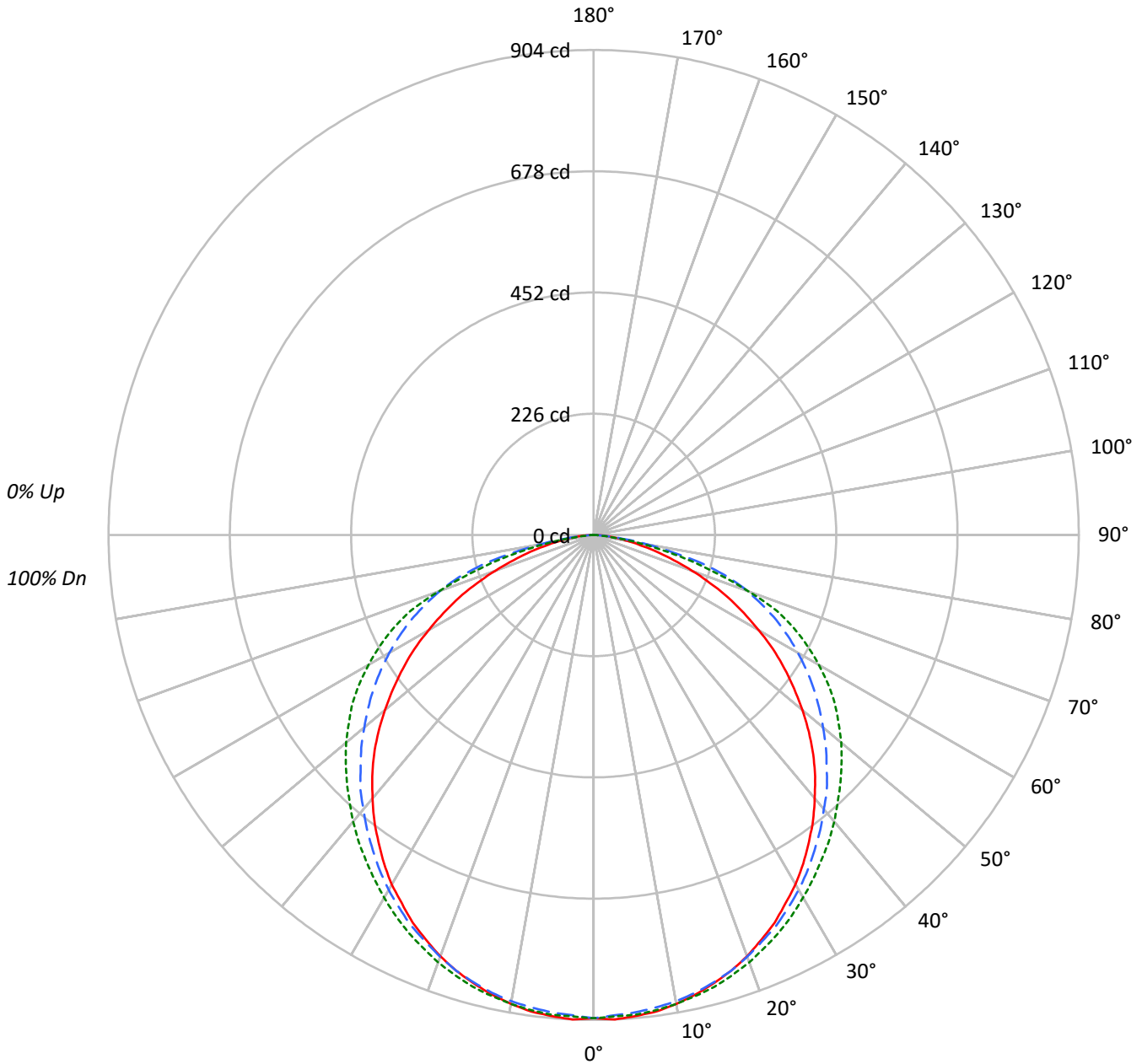
Lumens per Lamp: N/A  
Luminaire Lumens: 2653.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

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

	0°	45°	90°
0°	2543	2543	2543
5°	2551	2532	2544
10°	2544	2530	2544
15°	2528	2523	2547
20°	2511	2513	2546
25°	2484	2505	2546
30°	2452	2490	2545
35°	2409	2472	2550
40°	2361	2459	2569
45°	2311	2451	2598
50°	2231	2450	2645
55°	2135	2464	2701
60°	2006	2482	2736
65°	1850	2507	2752
70°	1612	2512	2534
75°	1328	2339	2047
80°	1044	1682	1369
85°	813	651	321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	3.2
10°-20°	244.8	9.2
20°-30°	371.7	14.0
30°-40°	450.4	17.0
40°-50°	474.6	17.9
50°-60°	443.0	16.7
60°-70°	354.0	13.3
70°-80°	194.8	7.3
80°-90°	34.4	1.3
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°	701.7	26.5
0°-40°	1152.1	43.4
0°-60°	2069.7	78.0
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	900	898	894	899	898	86
15°	865	865	864	872	872	244
25°	798	799	804	816	818	367
35°	699	706	717	736	740	437
45°	579	590	614	642	651	445
55°	434	455	501	536	549	387
65°	277	312	375	406	412	273
75°	122	174	214	193	188	131
85°	25	32	20	12	10	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	900.9	900.9	900.9	900.9	900.9
2.5°	904.2	901.7	896.0	900.9	898.5
5°	900.2	897.7	893.5	899.4	897.7
7.5°	896.0	892.6	888.4	895.2	893.5
10°	887.6	885.0	882.7	888.4	887.6
12.5°	877.6	876.8	874.3	881.0	880.2
15°	865.2	865.2	863.5	871.7	871.7
17.5°	851.7	850.8	851.7	861.0	860.1
20°	835.8	835.8	836.7	847.7	847.7
22.5°	816.6	817.5	820.0	833.3	832.5
25°	797.6	799.1	804.2	815.8	817.5
27.5°	774.2	778.4	784.1	798.3	799.9
30°	752.4	755.0	764.1	777.6	780.7
32.5°	726.7	731.5	741.7	756.7	760.9
35°	699.0	705.8	717.4	735.8	740.0
37.5°	671.6	677.5	693.3	712.3	719.9
40°	640.8	650.7	667.4	689.1	697.3
42.5°	610.6	620.7	643.3	665.7	673.3
45°	578.9	589.9	613.9	641.6	650.7
47.5°	543.9	556.5	587.3	616.5	626.4
50°	508.0	523.8	558.0	590.7	602.3
52.5°	470.6	490.4	529.7	563.9	574.9
55°	433.9	455.4	500.6	535.6	548.9
57.5°	396.3	419.7	470.6	510.5	518.1
60°	355.3	383.8	439.6	474.6	484.7
62.5°	315.4	347.9	407.9	441.2	449.7
65°	277.0	312.0	375.4	406.2	412.1
67.5°	235.2	277.0	339.5	368.0	369.5
70°	195.3	243.6	304.4	317.7	307.0
72.5°	156.0	207.7	263.7	252.7	243.6
75°	121.8	174.4	214.5	192.8	187.7
77.5°	90.1	142.7	153.5	141.9	132.6
80°	64.2	112.5	103.5	88.5	84.2
82.5°	44.1	70.9	56.8	44.1	38.4
85°	25.1	31.7	20.1	12.5	9.9
87.5°	10.8	7.6	4.2	3.4	3.4
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)