

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: P842860

Luminaire Tested: **14CZ2-39-HRP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842860  
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: 14CZ2-39-HRP-UNV-B35  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

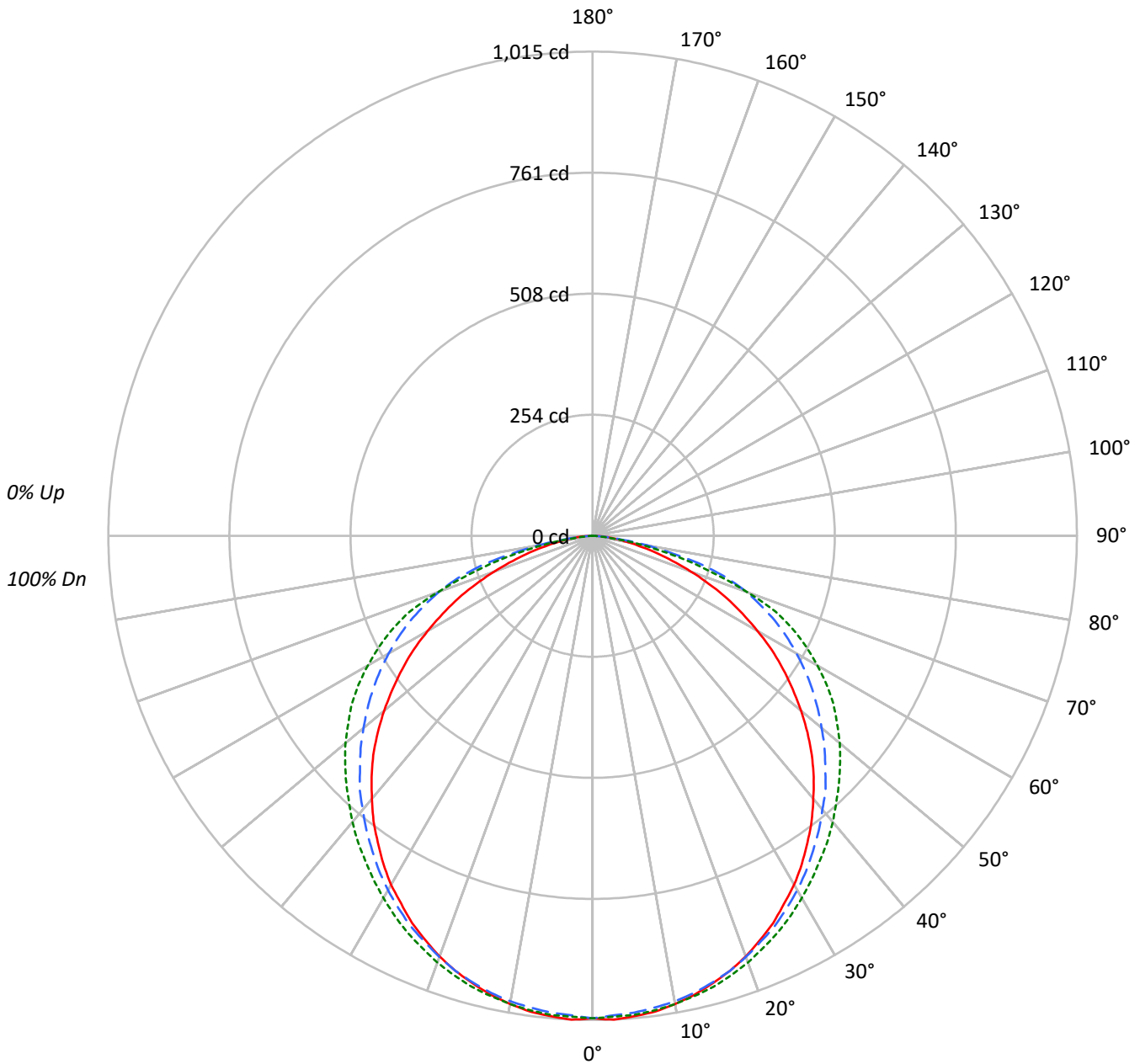
Lumens per Lamp: N/A  
Luminaire Lumens: 2979.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2855	2855	2855
5°	2864	2843	2856
10°	2856	2841	2856
15°	2839	2833	2860
20°	2819	2822	2859
25°	2789	2812	2859
30°	2754	2796	2857
35°	2705	2776	2863
40°	2651	2761	2885
45°	2595	2752	2916
50°	2505	2752	2970
55°	2398	2766	3033
60°	2252	2787	3073
65°	2077	2815	3091
70°	1810	2822	2845
75°	1492	2627	2299
80°	1172	1889	1538
85°	913	729	359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	3.2
10°-20°	274.8	9.2
20°-30°	417.3	14.0
30°-40°	505.7	17.0
40°-50°	532.9	17.9
50°-60°	497.5	16.7
60°-70°	397.6	13.3
70°-80°	218.8	7.3
80°-90°	38.6	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°	787.9	26.4
0°-40°	1293.6	43.4
0°-60°	2324.0	78.0
0°-90°	2979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1011	1008	1003	1010	1008	96
15°	972	972	970	979	979	274
25°	896	897	903	916	918	412
35°	785	792	806	826	831	491
45°	650	662	689	720	731	500
55°	487	511	562	601	616	435
65°	311	350	422	456	463	306
75°	137	196	241	216	211	147
85°	28	36	22	14	11	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1011.6	1011.6	1011.6	1011.6	1011.6
2.5°	1015.4	1012.5	1006.1	1011.6	1009.0
5°	1010.9	1008.0	1003.3	1009.9	1008.0
7.5°	1006.1	1002.3	997.6	1005.2	1003.3
10°	996.6	993.8	991.2	997.6	996.6
12.5°	985.5	984.5	981.7	989.3	988.3
15°	971.5	971.5	969.6	978.8	978.8
17.5°	956.3	955.4	956.3	966.8	965.8
20°	938.5	938.5	939.5	951.8	951.8
22.5°	917.0	917.9	920.8	935.7	934.8
25°	895.6	897.3	903.0	916.0	917.9
27.5°	869.3	874.1	880.5	896.3	898.2
30°	844.9	847.8	857.9	873.1	876.7
32.5°	816.0	821.4	832.8	849.6	854.4
35°	784.9	792.5	805.6	826.2	830.9
37.5°	754.1	760.7	778.5	799.9	808.4
40°	719.5	730.6	749.4	773.8	783.0
42.5°	685.6	697.0	722.3	747.5	756.0
45°	650.0	662.4	689.4	720.4	730.6
47.5°	610.7	624.9	659.5	692.2	703.4
50°	570.4	588.2	626.6	663.3	676.4
52.5°	528.4	550.7	594.8	633.2	645.5
55°	487.2	511.4	562.1	601.4	616.4
57.5°	445.0	471.3	528.4	573.2	581.8
60°	399.0	431.0	493.6	532.9	544.3
62.5°	354.2	390.7	458.0	495.5	505.0
65°	311.0	350.4	421.5	456.1	462.8
67.5°	264.1	311.0	381.2	413.2	414.9
70°	219.3	273.6	341.9	356.8	344.7
72.5°	175.2	233.3	296.1	283.8	273.6
75°	136.8	195.8	240.9	216.4	210.8
77.5°	101.2	160.3	172.3	159.3	148.9
80°	72.1	126.4	116.2	99.3	94.6
82.5°	49.5	79.7	63.8	49.5	43.1
85°	28.2	35.6	22.5	14.0	11.1
87.5°	12.1	8.5	4.7	3.8	3.8
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)