LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and Electrical Characteristics of Customer Submitted Luminaire

Report No.: PHM-RPT-180302-09
Date: March 02, 2018

LM-79 Distribution Testing: Total Luminous Flux, Luminous Intensity Distribution, Electrical Characteristics and Efficacy.

Report Prepared for:

Vantage Lighting
181 Narragansett Park Drive
East Providence, RI 02916
USA
Telephone: (860) 564-4512

Description : 8” RD WW
Model Tested: A8VOFLEDWWU-3035K
WO/CS#: S0461

Report Issue Date: March 2, 2018
Date of Test(s): February 26- March 2, 2018
Total Number of Pages : 9 (including this page)

Report Reviewed by:

Mark Razvi
Photometric Lab Supervisor
Curtis-Straus

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DETAILED PRODUCT DESCRIPTION

Model #	A8VOFLEDWWU-3035K
CS/WO#	**S0461**
Description	**8”** RD WW
Supply Voltage	**120VAC**

Pictures:

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Curtis-Straus Photometric Testing Information

Photometric Testing is performed in accordance with the procedures outlined in LM-79-2008 . The test sample is evaluated for photometric and electrical characteristics using the equipment listed below.

Curtis-Straus Environmental Testing Info

Curtis-Straus testing laboratory temperature during testing: 25.6 °C .

LIST OF EQUIPMENT USED:

Description	Model No.	Serial No.	Asset No	Cal. Date	Cal. Due
Yokogawa Power Meter	WT-310E	C2SK10001V	2360	04-21-17`	04-21-18
Chroma AC Power Supply	61603	616030001283	2355	04-21-17	04-21-18
LabSphere Type-C GoniometerSystem	PM-150-140	022172153	AA-30058-195	02-09-18	03-09-18
Digital Thermometer	4627	160739886	2392	09-07-16	09-07-18

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CURTIS-STRAUS

Report No.: PHM-RPT-180302-09
Date: March 02, 2018

LM-79-2008 Distribution Test Data

Model #	A8VOFLEDWWU-3035K
CS/WO#	**S0461**
Description	**8”** RD WW
Supply Voltage	**120VAC**

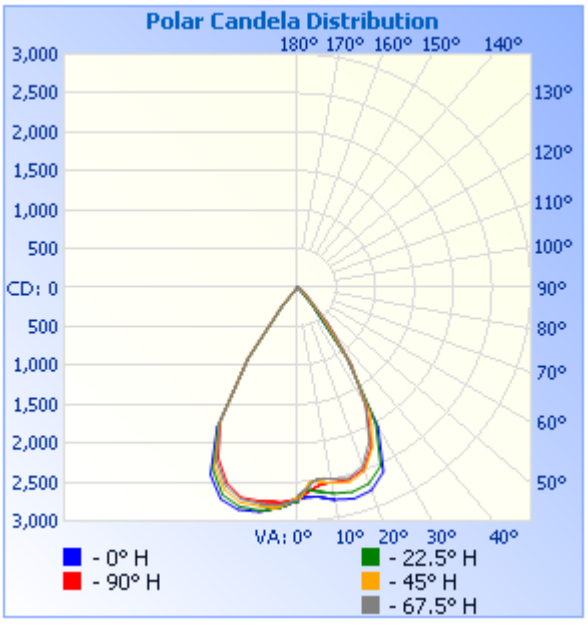
Result of Tests

Photometric and Electrical Test Data

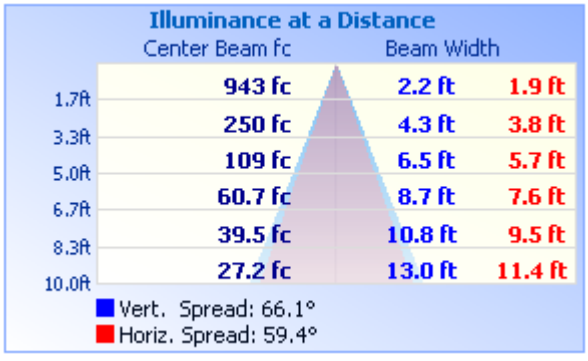
Input Voltage: 120 VAC
Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	Ithd (%)
3074.29	36.76	120.25	0.31	83.63	0.9959	0.21

Luminous Intensity Summary: Cd



Illumination Cone of Light
Mounting Ht: 10 ft.



LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and Electrical Characteristics of Customer Submitted Luminaire

Report No.: PHM-RPT-180302-09
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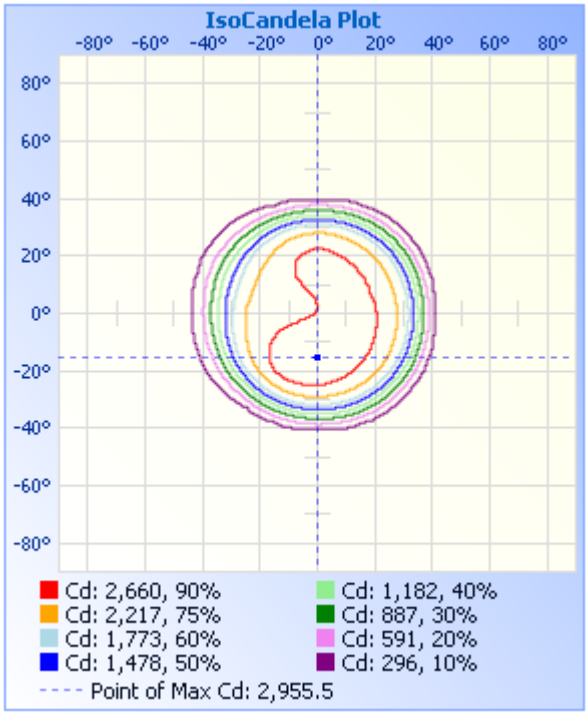
IsoCandela Plot



Zonal Lumens Summary

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,138.5	69.6%
0-40	2,838.2	92.3%
0-60	2,980.9	97%
60-90	42.8	1.4%
70-100	31.3	1%
90-120	22.8	0.7%
0-90	3,023.7	98.4%
90-180	50.6	1.6%
0-180	3,074.3	100%

Lumens per Zone

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	260.9	8.5%	90-100	8.5	0.3%
10-20	776.5	25.3%	100-110	7.5	0.2%
20-30	1,101.1	35.8%	110-120	6.8	0.2%
30-40	699.7	22.8%	120-130	6.3	0.2%
40-50	109.5	3.6%	130-140	6.3	0.2%
50-60	33.2	1.1%	140-150	6.1	0.2%
60-70	20.0	0.6%	150-160	4.9	0.2%
70-80	13.2	0.4%	160-170	3.2	0.1%
80-90	9.6	0.3%	170-180	1.1	0%

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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724	2724
0.1	2722	2705	2711	2670	2711	2750	2775	2745	2759	2763	2691	2738	2718	2697	2708	2721	2721
0.2	2721	2700	2710	2667	2708	2748	2774	2745	2759	2762	2694	2739	2721	2698	2710	2722	2719
0.3	2720	2694	2708	2664	2705	2746	2774	2744	2758	2761	2698	2740	2722	2699	2711	2723	2717
0.4	2720	2689	2707	2660	2702	2743	2773	2744	2758	2760	2701	2741	2723	2700	2712	2724	2716
0.5	2719	2683	2706	2657	2700	2740	2772	2743	2758	2759	2704	2742	2724	2701	2713	2724	2714
0.6	2717	2678	2704	2653	2697	2737	2771	2744	2757	2758	2708	2743	2724	2702	2713	2725	2713
0.7	2715	2672	2703	2650	2694	2734	2771	2745	2757	2758	2711	2744	2725	2702	2714	2725	2711
0.8	2714	2667	2701	2646	2691	2731	2770	2746	2757	2757	2714	2745	2726	2703	2715	2726	2709
0.9	2712	2661	2700	2643	2688	2727	2769	2747	2756	2758	2718	2745	2727	2704	2716	2726	2708
1	2711	2655	2698	2640	2686	2724	2768	2748	2756	2759	2721	2746	2728	2705	2716	2727	2706
1.1	2709	2650	2691	2636	2683	2721	2768	2749	2758	2760	2724	2747	2729	2706	2717	2727	2705
1.2	2707	2644	2684	2633	2680	2718	2767	2750	2760	2762	2728	2748	2730	2707	2718	2728	2703
1.3	2706	2640	2676	2629	2677	2715	2766	2752	2762	2763	2731	2748	2731	2708	2718	2728	2702
1.4	2704	2637	2668	2626	2674	2713	2765	2754	2764	2764	2734	2749	2732	2709	2719	2729	2701
1.5	2702	2633	2660	2622	2671	2711	2765	2757	2766	2765	2738	2750	2733	2711	2721	2729	2700
1.6	2701	2630	2652	2619	2668	2710	2764	2759	2768	2766	2741	2750	2734	2712	2723	2730	2699
1.7	2700	2626	2644	2616	2666	2708	2763	2762	2770	2767	2744	2751	2735	2714	2725	2731	2699
1.8	2700	2623	2636	2612	2663	2707	2762	2764	2771	2768	2748	2753	2736	2716	2727	2732	2698
1.9	2699	2619	2628	2609	2660	2705	2761	2767	2773	2769	2751	2754	2737	2718	2729	2733	2697
2	2699	2616	2620	2605	2657	2704	2761	2769	2775	2772	2754	2756	2738	2719	2730	2734	2696
2.1	2698	2612	2612	2602	2654	2702	2760	2772	2777	2774	2758	2757	2740	2721	2732	2735	2695
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2.3	2697	2605	2596	2595	2649	2699	2763	2777	2782	2780	2764	2760	2742	2725	2736	2737	2693
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2.7	2695	2604	2564	2581	2637	2698	2770	2785	2794	2790	2777	2767	2748	2733	2744	2741	2693
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2.9	2695	2605	2547	2574	2632	2698	2774	2789	2800	2795	2783	2770	2751	2737	2748	2744	2693
3	2696	2605	2539	2571	2629	2698	2775	2791	2802	2798	2785	2772	2752	2739	2750	2746	2694
3.1	2696	2606	2531	2568	2626	2699	2777	2793	2805	2800	2788	2774	2754	2741	2752	2747	2694
3.2	2696	2606	2523	2564	2623	2699	2779	2795	2808	2803	2791	2775	2755	2743	2755	2749	2694
3.3	2696	2606	2516	2560	2621	2699	2779	2797	2810	2806	2794	2777	2757	2746	2757	2750	2694
3.4	2696	2607	2514	2555	2618	2699	2780	2799	2812	2808	2796	2779	2758	2748	2759	2752	2694
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4.3	2698	2618	2494	2511	2595	2700	2785	2804	2827	2831	2819	2793	2767	2762	2775	2764	2696
4.4	2699	2619	2492	2506	2593	2700	2785	2804	2829	2833	2822	2795	2768	2764	2776	2765	2696
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4.9	2700	2624	2495	2494	2582	2700	2785	2806	2834	2841	2833	2800	2770	2768	2782	2771	2698
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5.4	2702	2629	2498	2483	2571	2698	2784	2807	2839	2849	2839	2804	2769	2769	2784	2774	2700
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5.7	2704	2632	2501	2479	2565	2697	2785	2808	2843	2853	2843	2806	2768	2770	2785	2775	2701
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5.9	2705	2634	2503	2477	2562	2695	2785	2811	2847	2855	2846	2806	2768	2770	2785	2776	2703
6	2706	2635	2504	2477	2561	2695	2785	2812	2849	2857	2846	2807	2768	2769	2784	2777	2704
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7.2	2723	2649	2518	2473	2547	2683	2790	2829	2874	2875	2848	2813	2771	2766	2782	2786	2721
7.3	2725	2650	2519	2474	2546	2682	2791	2831	2876	2877	2848	2814	2772	2766	2782	2787	2723
7.4	2726	2652	2520	2474	2545	2682	2791	2832	2878	2879	2847	2814	2773	2766	2782	2787	2725
7.5	2728	2653	2522	2474	2544	2681	2792	2834	2880	2880	2847	2814	2773	2766	2782	2788	2727

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CURTIS-STRAUS

Report No.: PHM-RPT-180302-09
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7.6	2730	2654	2523	2475	2543	2680	2793	2835	2882	2882	2847	2815	2774	2765	2783	2789	2728
7.7	2732	2656	2524	2475	2543	2679	2793	2837	2885	2883	2847	2815	2775	2765	2783	2790	2730
7.8	2733	2657	2525	2475	2542	2678	2794	2839	2886	2885	2847	2815	2775	2765	2783	2791	2732
7.9	2735	2658	2526	2476	2542	2677	2794	2840	2888	2886	2846	2816	2776	2765	2783	2791	2734
8	2737	2660	2528	2477	2542	2676	2795	2842	2890	2888	2846	2816	2776	2765	2783	2792	2736
8.1	2738	2661	2529	2478	2541	2676	2795	2843	2892	2889	2846	2816	2777	2765	2783	2793	2737
8.2	2740	2662	2530	2478	2541	2675	2796	2845	2894	2891	2846	2816	2778	2765	2783	2794	2738
8.3	2742	2663	2531	2479	2541	2674	2796	2846	2896	2892	2846	2817	2778	2764	2783	2794	2740
8.4	2743	2664	2532	2480	2541	2673	2797	2848	2897	2894	2846	2817	2779	2764	2783	2795	2741
8.5	2745	2666	2533	2481	2541	2673	2797	2849	2899	2895	2845	2817	2779	2764	2783	2795	2743
8.6	2746	2667	2534	2482	2541	2672	2798	2850	2901	2896	2845	2817	2780	2764	2783	2796	2744
8.7	2748	2668	2535	2482	2540	2671	2799	2852	2903	2898	2845	2816	2781	2763	2783	2796	2745
8.8	2749	2669	2536	2483	2540	2671	2799	2853	2905	2898	2845	2816	2781	2763	2783	2797	2747
8.9	2751	2671	2537	2484	2540	2670	2800	2855	2906	2899	2845	2816	2782	2763	2783	2797	2748
9	2752	2672	2538	2485	2540	2670	2800	2856	2908	2900	2845	2816	2782	2763	2783	2797	2750
9.1	2754	2673	2539	2486	2540	2669	2801	2858	2909	2901	2844	2816	2783	2762	2783	2798	2751
9.2	2755	2674	2540	2487	2540	2668	2802	2859	2911	2901	2844	2816	2783	2762	2783	2798	2752
9.3	2757	2675	2541	2488	2540	2668	2802	2860	2912	2902	2844	2815	2784	2762	2783	2799	2753
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9.5	2760	2678	2543	2490	2541	2667	2803	2863	2915	2904	2845	2815	2784	2761	2782	2799	2756
9.6	2761	2679	2544	2491	2541	2667	2804	2864	2917	2905	2845	2815	2785	2760	2782	2799	2757
9.7	2762	2680	2545	2492	2541	2667	2805	2866	2918	2905	2845	2815	2785	2760	2782	2800	2759
9.8	2764	2681	2546	2493	2541	2667	2805	2867	2920	2906	2845	2815	2786	2760	2781	2800	2760
9.9	2765	2683	2547	2494	2541	2666	2806	2868	2921	2907	2846	2815	2786	2759	2781	2800	2761
10	2766	2684	2548	2495	2541	2666	2806	2870	2923	2907	2846	2815	2786	2759	2781	2800	2762
15	2807	2718	2584	2532	2555	2662	2825	2915	**2956**	2909	2858	2813	2793	2755	2771	2793	2804
20	2772	2680	2511	2440	2481	2582	2792	2897	2891	2830	2761	2708	2667	2650	2683	2723	2769
25	2609	2526	2267	2180	2244	2382	2623	2725	2652	2578	2531	2468	2418	2406	2458	2520	2609
30	2065	2003	1876	1744	1760	1922	2050	2091	2069	2044	2013	2008	1987	1975	1992	2019	2054
35	1099	1124	1155	1194	1199	1154	1091	1097	1093	1110	1111	1117	1130	1140	1132	1114	1104
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45	39	60	150	240	230	177	70	42	34	34	36	39	39	46	43	34	39
50	26	41	97	147	146	113	49	29	23	22	22	22	21	20	19	20	25
55	19	29	63	96	99	77	35	22	18	18	18	18	18	16	15	16	19
60	15	21	43	62	67	52	26	17	15	15	15	16	15	14	13	13	15
65	12	16	29	42	45	36	20	14	13	13	14	14	14	12	11	11	12
70	10	12	20	28	30	25	16	12	11	11	12	13	12	11	10	10	10
75	9	10	15	19	21	18	13	11	10	10	11	12	11	10	9	9	9
80	8	9	11	13	15	14	12	10	9	9	9	10	10	9	8	8	8
85	7	8	8	10	11	11	12	9	8	8	8	8	8	7	7	7	7

LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and Electrical Characteristics of Customer Submitted Luminaire

CURTIS-STRAUS

Report No.: PHM-RPT-180302-09
Date: March 02, 2018

90	6	7	9	10	9	10	12	9	8	8	9	9	8	7	7	6	6
95	6	7	7	7	7	8	10	8	8	8	10	10	10	7	7	6	6
100	6	6	7	7	7	8	9	8	8	8	10	7	6	6	6	6	6
105	6	6	7	7	7	8	8	8	8	8	8	7	6	6	6	6	6
110	6	6	7	7	7	8	8	8	8	8	7	7	7	6	6	6	6
115	6	7	7	7	7	8	8	8	8	7	7	7	7	6	6	6	6
120	6	6	7	7	7	8	8	8	8	7	7	7	7	6	6	6	6
125	6	6	7	7	7	8	8	8	8	7	7	7	7	6	6	6	6
130	7	7	7	7	8	8	8	8	8	8	7	7	7	7	7	6	7
135	7	8	8	8	8	9	9	9	9	9	8	8	8	8	7	7	7
140	8	9	8	9	9	9	10	10	10	9	9	9	8	8	8	8	8
145	9	9	9	9	10	10	11	11	11	10	10	10	9	9	9	9	9
150	10	10	10	10	11	11	11	11	11	11	11	10	10	10	9	10	10
155	10	10	10	11	11	11	11	12	11	11	11	11	10	10	10	10	10
160	10	10	11	11	11	12	12	12	12	11	11	11	11	10	10	10	10
165	11	11	11	11	11	12	12	12	12	12	12	11	11	11	10	11	11
170	11	11	11	12	12	13	13	13	12	12	11	11	11	11	11	11	11
175	11	11	11	12	12	13	13	13	12	12	12	11	11	11	11	11	11
180	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11