



## 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-180309-15  
Date: March 09, 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 : VGC8VEFLED**  
**Model Tested: VGC8VEFLEDU-3035K**  
**WO/CS#: S0461**

**Report Issue Date: March 9, 2018**  
**Date of Test(s): March 5- March 9, 2018**  
**Total Number of Pages : 9** (including this page)

**Report Reviewed by:**

**Mark Razvi**  
Photometric Lab Supervisor  
Curtis-Straus



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

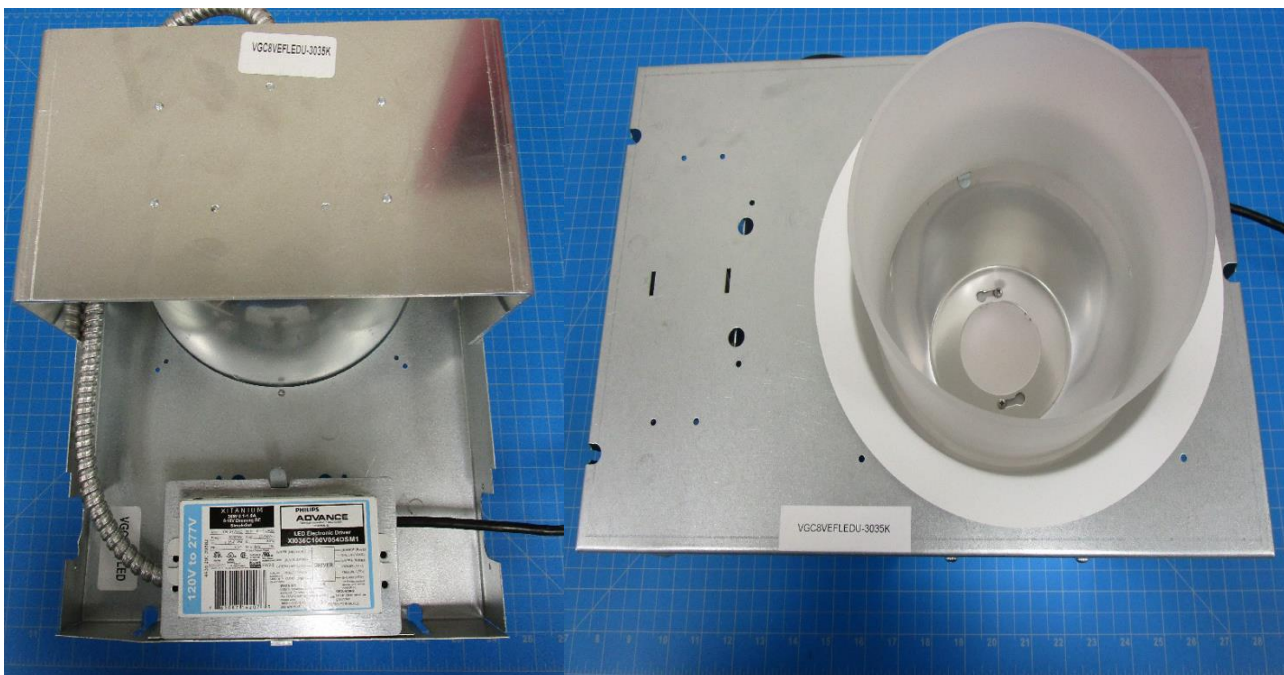
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## DETAILED PRODUCT DESCRIPTION

<b>Model #</b>	<b>VGC8VEFLEDU-3035K</b>
<b>CS/WO#</b>	<b>S0461</b>
<b>Description</b>	<b>VGC8VEFLED</b>
<b>Supply Voltage</b>	<b>120VAC</b>

### 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: 25.2 °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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### LM-79-2008 Distribution Test Data

**Model #** VGC8VEFLEDU-3035K  
**CS/WO#** S0461  
**Description** VGC8VEFLEDU  
**Supply Voltage** 120VAC

### Result of Tests

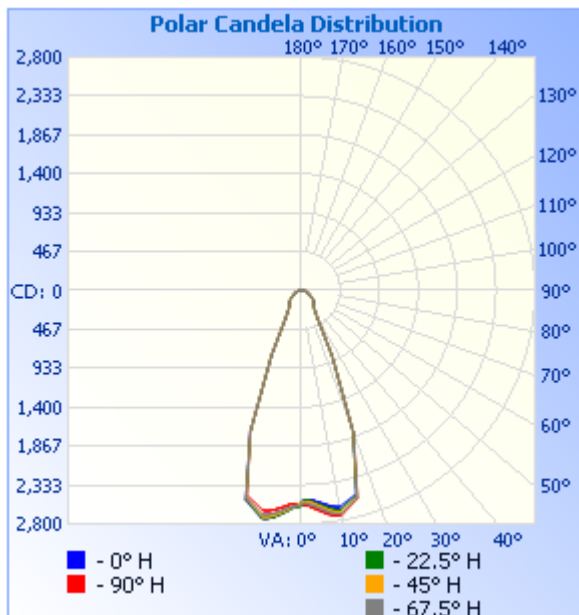
#### Photometric and Electrical Test Data

Input Voltage: 120 VAC

Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	Ithd (%)
2145.22	36.43	120.25	0.30	58.89	0.9956	0.26

Luminous Intensity Summary: Cd



Illumination Cone of Light  
Mounting Ht: 10 ft.

Distance (ft)	Illuminance at a Distance	
	Center Beam fc	Beam Width
1.7ft	884 fc	1.4 ft 1.2 ft
3.3ft	235 fc	2.7 ft 2.4 ft
5.0ft	102 fc	4.1 ft 3.6 ft
6.7ft	56.9 fc	5.5 ft 4.9 ft
8.3ft	37.1 fc	6.8 ft 6.0 ft
10.0ft	25.5 fc	8.2 ft 7.2 ft

■ Vert. Spread: 44.4°  
 ■ Horiz. Spread: 39.8°



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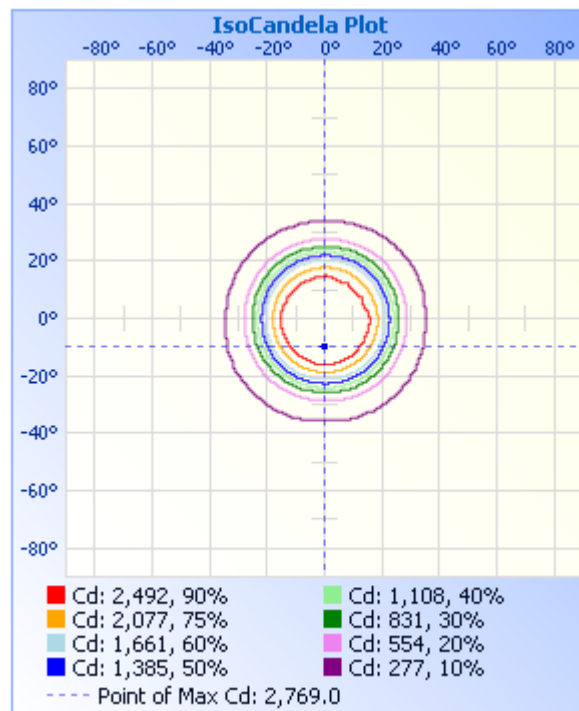
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IsoCandela Plot



### Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,349.2	62.9%
0-40	1,528.8	71.3%
0-60	1,824.2	85%
60-90	227.2	10.6%
70-100	162.0	7.6%
90-120	70.0	3.3%
0-90	2,051.3	95.6%
90-180	93.9	4.4%
0-180	2,145.2	100%

### Lumens per Zone

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	253.2	11.8%	90-100	35.5	1.7%	
10-20	666.2	31.1%	100-110	21.6	1%	
20-30	429.8	20.0%	110-120	12.9	0.6%	
30-40	179.6	8.4%	120-130	7.9	0.4%	
40-50	157.9	7.4%	130-140	5.2	0.2%	
50-60	137.4	6.4%	140-150	4.3	0.2%	
60-70	100.7	4.7%	150-160	3.5	0.2%	
70-80	73.8	3.4%	160-170	2.3	0.1%	
80-90	52.7	2.5%	170-180	0.8	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	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554	2554
0.1	2526	2530	2542	2556	2574	2566	2579	2572	2574	2584	2567	2578	2555	2528	2523	2529	2524
0.2	2525	2529	2542	2555	2574	2566	2578	2571	2574	2585	2566	2578	2556	2527	2522	2528	2524
0.3	2525	2528	2541	2554	2573	2567	2578	2570	2575	2586	2566	2579	2556	2526	2520	2526	2524
0.4	2524	2526	2541	2554	2573	2569	2577	2569	2575	2587	2565	2580	2556	2525	2519	2524	2524
0.5	2523	2525	2541	2553	2573	2570	2577	2568	2576	2588	2565	2581	2556	2525	2518	2522	2523
0.6	2523	2524	2540	2552	2573	2571	2576	2569	2576	2589	2565	2582	2556	2524	2516	2521	2523
0.7	2522	2523	2540	2552	2572	2572	2576	2570	2577	2590	2564	2583	2556	2523	2514	2519	2523
0.8	2521	2521	2540	2551	2572	2573	2575	2570	2577	2591	2566	2583	2556	2522	2512	2517	2523
0.9	2521	2520	2539	2550	2572	2575	2575	2571	2577	2592	2568	2584	2556	2522	2510	2516	2523
1	2520	2519	2539	2551	2571	2576	2574	2572	2578	2593	2570	2585	2556	2521	2508	2514	2523
1.1	2519	2518	2539	2552	2571	2577	2575	2573	2578	2594	2572	2586	2556	2520	2506	2513	2523
1.2	2519	2517	2538	2554	2572	2578	2577	2573	2579	2595	2574	2587	2557	2519	2504	2511	2523
1.3	2518	2518	2538	2555	2574	2580	2578	2574	2579	2596	2576	2587	2557	2518	2502	2510	2522
1.4	2517	2519	2538	2556	2576	2582	2580	2575	2580	2597	2578	2588	2557	2518	2500	2508	2522
1.5	2517	2520	2537	2558	2578	2584	2582	2576	2581	2598	2580	2589	2557	2517	2498	2507	2522
1.6	2516	2520	2537	2559	2579	2586	2584	2577	2583	2599	2582	2590	2557	2516	2496	2505	2522
1.7	2515	2521	2537	2561	2581	2588	2586	2579	2586	2600	2584	2591	2557	2515	2496	2504	2522
1.8	2515	2522	2536	2562	2583	2590	2587	2581	2589	2601	2586	2591	2557	2514	2496	2502	2522
1.9	2514	2522	2536	2563	2585	2593	2589	2584	2592	2602	2589	2592	2557	2514	2497	2501	2522
2	2514	2523	2536	2565	2587	2595	2591	2587	2595	2603	2591	2593	2557	2513	2497	2500	2522
2.1	2513	2524	2535	2566	2589	2597	2593	2590	2598	2604	2593	2594	2557	2512	2497	2500	2521
2.2	2512	2524	2535	2568	2590	2599	2595	2593	2601	2605	2595	2595	2558	2511	2497	2501	2521
2.3	2512	2525	2536	2569	2592	2602	2597	2595	2603	2607	2598	2596	2558	2511	2497	2501	2521
2.4	2511	2527	2538	2571	2595	2604	2600	2598	2606	2610	2600	2596	2558	2510	2497	2501	2521
2.5	2510	2529	2540	2573	2597	2606	2603	2601	2609	2613	2602	2597	2558	2509	2498	2501	2521
2.6	2511	2531	2543	2574	2599	2609	2605	2604	2612	2615	2605	2598	2558	2511	2498	2502	2521
2.7	2513	2533	2545	2576	2601	2611	2608	2607	2615	2618	2607	2599	2558	2512	2498	2502	2521
2.8	2514	2535	2547	2577	2604	2614	2610	2609	2618	2620	2609	2600	2560	2514	2498	2502	2521
2.9	2516	2537	2549	2579	2606	2616	2613	2612	2621	2623	2612	2600	2562	2515	2499	2502	2520
3	2518	2539	2551	2581	2608	2618	2616	2615	2624	2626	2614	2601	2564	2517	2500	2503	2520
3.1	2519	2541	2554	2582	2611	2621	2618	2618	2627	2628	2616	2602	2566	2519	2501	2503	2520
3.2	2521	2543	2556	2584	2613	2623	2621	2621	2630	2631	2619	2604	2568	2520	2502	2504	2520
3.3	2523	2545	2558	2586	2615	2626	2623	2623	2633	2633	2622	2607	2570	2522	2503	2506	2521
3.4	2524	2547	2560	2588	2618	2628	2626	2626	2636	2636	2624	2609	2572	2523	2504	2507	2523
3.5	2526	2549	2563	2591	2620	2631	2629	2629	2639	2639	2627	2611	2575	2525	2505	2509	2524



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3.6	2528	2551	2565	2593	2622	2633	2631	2632	2642	2642	2629	2614	2577	2526	2506	2510	2526
3.7	2529	2553	2567	2595	2625	2635	2634	2635	2645	2644	2632	2616	2579	2528	2506	2512	2528
3.8	2531	2555	2570	2598	2627	2638	2637	2638	2648	2647	2635	2618	2581	2530	2507	2513	2530
3.9	2533	2557	2572	2600	2629	2640	2639	2640	2650	2650	2637	2620	2583	2531	2508	2515	2532
4	2535	2559	2575	2602	2632	2643	2642	2643	2653	2652	2640	2623	2585	2533	2510	2516	2534
4.1	2537	2561	2577	2605	2634	2645	2645	2645	2656	2655	2642	2625	2587	2535	2511	2517	2536
4.2	2539	2563	2580	2607	2636	2648	2647	2647	2659	2658	2645	2627	2589	2536	2513	2519	2538
4.3	2541	2565	2582	2609	2639	2650	2650	2650	2661	2661	2648	2630	2591	2538	2514	2520	2540
4.4	2543	2567	2584	2612	2641	2653	2653	2652	2664	2663	2650	2632	2594	2540	2516	2522	2542
4.5	2545	2569	2587	2614	2643	2655	2655	2655	2667	2666	2653	2635	2596	2541	2517	2524	2543
4.6	2547	2572	2589	2616	2646	2658	2657	2657	2669	2669	2655	2637	2598	2543	2518	2525	2545
4.7	2549	2574	2591	2618	2648	2660	2660	2660	2672	2672	2658	2640	2600	2545	2520	2527	2547
4.8	2551	2576	2594	2621	2650	2662	2662	2662	2675	2674	2660	2642	2602	2546	2521	2529	2549
4.9	2552	2578	2596	2623	2653	2665	2664	2664	2677	2677	2663	2644	2604	2548	2523	2530	2551
5	2554	2580	2598	2625	2655	2667	2667	2667	2680	2680	2665	2647	2606	2550	2524	2532	2553
5.1	2556	2582	2600	2628	2658	2670	2669	2670	2683	2683	2668	2649	2608	2552	2526	2533	2555
5.2	2558	2584	2603	2630	2660	2672	2671	2672	2686	2686	2670	2652	2610	2553	2527	2535	2557
5.3	2559	2586	2605	2632	2662	2674	2674	2675	2689	2688	2673	2654	2612	2555	2529	2537	2559
5.4	2561	2589	2607	2634	2665	2677	2676	2678	2691	2691	2675	2656	2614	2557	2530	2538	2561
5.5	2563	2591	2610	2637	2667	2679	2678	2681	2694	2694	2678	2659	2617	2558	2532	2540	2563
5.6	2565	2593	2612	2639	2670	2682	2681	2684	2697	2697	2681	2661	2619	2560	2533	2541	2565
5.7	2566	2595	2615	2642	2672	2684	2684	2687	2700	2699	2683	2663	2621	2562	2535	2543	2566
5.8	2568	2597	2617	2644	2675	2686	2687	2689	2703	2702	2686	2665	2623	2564	2536	2545	2568
5.9	2570	2600	2620	2647	2677	2689	2689	2692	2705	2705	2689	2667	2625	2565	2538	2546	2570
6	2572	2602	2623	2650	2680	2691	2692	2695	2708	2707	2691	2669	2627	2567	2539	2548	2572
6.1	2574	2604	2625	2652	2682	2693	2695	2698	2711	2710	2694	2672	2629	2568	2541	2550	2574
6.2	2576	2606	2628	2655	2685	2696	2697	2700	2714	2712	2697	2674	2631	2570	2543	2551	2576
6.3	2578	2609	2631	2657	2687	2698	2700	2703	2716	2715	2699	2676	2632	2572	2545	2553	2578
6.4	2581	2611	2633	2660	2690	2700	2703	2706	2719	2718	2702	2678	2634	2573	2546	2554	2580
6.5	2583	2613	2636	2662	2692	2703	2706	2708	2722	2720	2704	2680	2636	2575	2548	2556	2582
6.6	2585	2616	2639	2665	2695	2705	2708	2711	2724	2723	2706	2682	2638	2576	2550	2558	2584
6.7	2587	2618	2642	2667	2697	2707	2711	2713	2727	2725	2709	2684	2640	2578	2552	2560	2586
6.8	2590	2620	2644	2670	2699	2710	2713	2716	2730	2728	2711	2686	2642	2579	2553	2562	2588
6.9	2592	2622	2646	2672	2701	2712	2716	2718	2732	2730	2713	2688	2644	2581	2555	2564	2590
7	2594	2625	2649	2675	2703	2714	2718	2721	2735	2732	2715	2690	2646	2583	2557	2566	2592
7.1	2596	2627	2651	2677	2705	2716	2720	2723	2738	2734	2718	2692	2648	2584	2559	2568	2595
7.2	2598	2629	2654	2680	2707	2718	2723	2726	2739	2736	2720	2694	2649	2586	2560	2570	2597
7.3	2600	2631	2656	2682	2709	2720	2725	2728	2741	2738	2722	2696	2651	2588	2562	2572	2599
7.4	2602	2633	2658	2685	2711	2722	2727	2730	2743	2740	2724	2698	2653	2590	2564	2574	2601
7.5	2604	2635	2661	2687	2713	2724	2730	2732	2745	2742	2727	2701	2654	2591	2566	2576	2603





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7.6	2606	2638	2663	2689	2715	2727	2732	2734	2747	2744	2728	2702	2656	2593	2567	2578	2605
7.7	2608	2640	2666	2692	2717	2729	2734	2735	2749	2746	2730	2704	2658	2595	2569	2579	2607
7.8	2610	2642	2668	2694	2719	2731	2736	2737	2750	2748	2731	2705	2660	2597	2571	2580	2609
7.9	2611	2644	2670	2695	2720	2733	2738	2739	2752	2750	2733	2707	2661	2598	2572	2582	2610
8	2613	2646	2671	2697	2722	2735	2740	2741	2754	2752	2734	2708	2663	2600	2574	2583	2612
8.1	2615	2647	2673	2699	2723	2737	2741	2743	2756	2753	2736	2710	2665	2602	2576	2585	2613
8.2	2617	2649	2674	2701	2725	2738	2743	2745	2758	2754	2737	2711	2666	2603	2578	2586	2615
8.3	2618	2650	2676	2702	2726	2739	2745	2747	2759	2756	2739	2713	2668	2604	2579	2588	2616
8.4	2619	2652	2678	2704	2728	2741	2746	2748	2760	2757	2741	2714	2669	2605	2581	2589	2618
8.5	2621	2653	2679	2706	2729	2742	2748	2749	2761	2759	2742	2716	2669	2606	2581	2590	2619
8.6	2622	2655	2681	2707	2731	2743	2749	2750	2762	2760	2744	2717	2670	2607	2582	2592	2621
8.7	2623	2656	2683	2709	2732	2745	2751	2751	2763	2762	2744	2719	2671	2608	2583	2593	2622
8.8	2624	2658	2684	2711	2733	2746	2753	2753	2764	2763	2745	2720	2672	2609	2584	2594	2624
8.9	2625	2659	2686	2712	2735	2747	2754	2754	2765	2765	2746	2720	2672	2610	2585	2595	2625
9	2626	2661	2687	2713	2736	2749	2755	2755	2766	2766	2746	2721	2673	2611	2586	2596	2625
9.1	2627	2662	2688	2714	2737	2750	2755	2756	2767	2766	2747	2721	2674	2612	2587	2597	2626
9.2	2628	2662	2689	2714	2738	2751	2756	2757	2768	2767	2748	2722	2674	2613	2587	2598	2627
9.3	2630	2663	2690	2715	2738	2751	2757	2758	2769	2767	2748	2723	2675	2614	2588	2599	2628
9.4	2630	2664	2691	2716	2738	2752	2757	2759	2769	2767	2749	2723	2676	2614	2589	2600	2629
9.5	2631	2664	2692	2717	2739	2752	2758	2760	2769	2767	2749	2724	2676	2615	2590	2601	2630
9.6	2631	2665	2693	2718	2739	2752	2758	2760	2769	2768	2750	2725	2676	2615	2590	2602	2631
9.7	2632	2666	2694	2719	2739	2752	2759	2760	2769	2768	2751	2725	2675	2615	2591	2603	2631
9.8	2633	2667	2695	2720	2740	2753	2760	2761	2769	2768	2751	2726	2675	2615	2591	2604	2632
9.9	2633	2667	2696	2721	2740	2753	2760	2761	2769	2768	2751	2726	2675	2616	2591	2604	2633
10	2634	2668	2697	2721	2740	2753	2761	2761	2769	2769	2751	2725	2675	2616	2591	2604	2634
15	2526	2546	2564	2578	2580	2590	2600	2602	2599	2587	2573	2565	2542	2495	2484	2500	2518
20	1807	1805	1808	1825	1806	1803	1805	1809	1803	1796	1795	1797	1802	1785	1792	1803	1806
25	862	861	858	863	862	848	852	855	856	868	868	860	858	874	875	877	864
30	361	371	377	382	390	396	391	387	402	420	410	392	381	385	382	365	361
35	262	258	260	264	271	277	278	279	278	277	276	272	271	271	269	265	261
40	228	220	221	225	231	236	238	240	234	230	230	231	230	230	229	230	228
45	206	196	196	200	204	208	210	212	206	203	203	206	205	204	203	207	206
50	185	173	173	175	179	182	185	185	181	178	179	183	181	180	179	185	185
55	153	150	149	151	155	156	160	160	156	153	155	160	162	159	160	156	154
60	120	118	118	119	121	124	126	126	124	122	124	127	127	127	125	123	120
65	98	97	96	97	98	100	102	102	100	100	101	104	104	104	102	100	97
70	80	80	79	80	81	83	84	84	83	83	84	86	87	86	84	82	80
75	67	66	66	67	68	69	70	70	69	69	71	73	73	72	70	68	67
80	56	55	56	56	57	57	58	59	58	58	59	60	61	60	58	57	55
85	46	46	49	50	49	48	48	49	48	48	47	48	49	48	47	47	46





# LM-79 Distribution Test Report (Luminaire)

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

Report No.: PHM-RPT-180309-15

Date: March 09, 2018

**CURTIS-STRAUS**

90	38	39	44	42	40	40	40	42	39	39	39	40	40	39	39	39	38
95	32	32	33	33	33	33	34	34	34	33	32	30	30	30	31	32	32
100	27	27	28	28	28	27	28	28	28	28	25	20	19	19	23	27	27
105	23	23	23	23	24	22	22	23	24	23	19	13	11	11	17	22	23
110	20	19	19	18	20	18	18	18	20	19	14	8	6	6	13	18	20
115	16	15	15	15	16	15	14	15	16	15	11	6	5	5	10	14	16
120	13	12	12	11	13	12	11	12	13	12	9	5	5	5	8	12	14
125	11	10	9	9	11	10	9	10	11	10	8	5	5	5	7	9	11
130	9	9	7	8	9	8	7	8	9	9	7	5	5	5	6	8	9
135	8	7	6	7	7	7	6	7	8	8	6	6	5	5	5	7	7
140	7	7	6	6	7	7	6	7	7	7	6	6	6	6	6	6	7
145	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
150	7	7	7	7	7	7	7	7	7	8	8	7	7	7	7	7	7
155	7	7	7	7	7	8	8	8	8	8	8	8	7	8	8	7	7
160	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
165	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
170	8	8	8	9	8	9	9	9	9	9	9	9	9	8	8	8	8
175	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
180	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9