



## 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-180302-10  
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 : FR 4498  
Model Tested: SQ44VOFLEDU-1135K  
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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## Total Luminous Flux, Luminous Intensity Distribution and Electrical Characteristics of Customer Submitted Luminaire

**CURTIS-STRAUS**

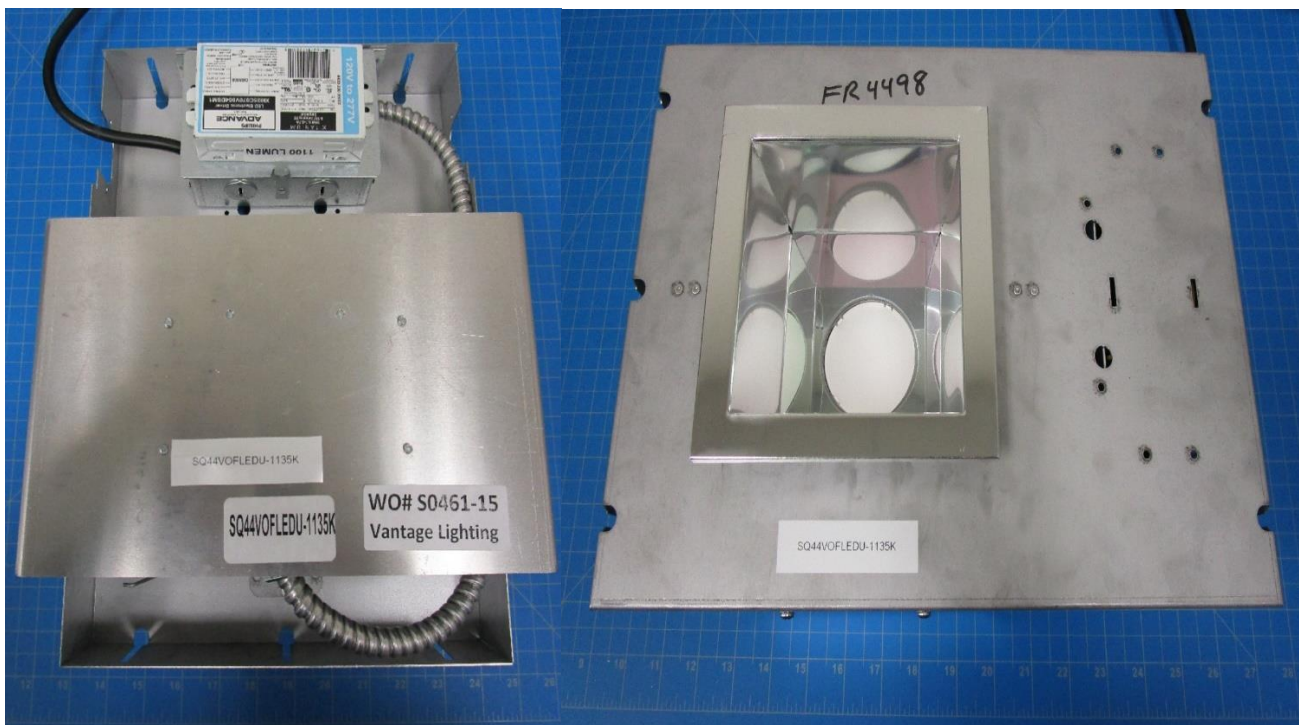
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### DETAILED PRODUCT DESCRIPTION

<b>Model #</b>	<b>SQ44VOFLEDU-1135K</b>
<b>CS/WO#</b>	<b>S0461</b>
<b>Description</b>	<b>FR 4498</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: 25.3 °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

<b>Model #</b>	<b>SQ44VOFLEDU-1135K</b>
<b>CS/WO#</b>	<b>S0461</b>
<b>Description</b>	<b>FR 4498</b>
<b>Supply Voltage</b>	<b>120VAC</b>

### Result of Tests

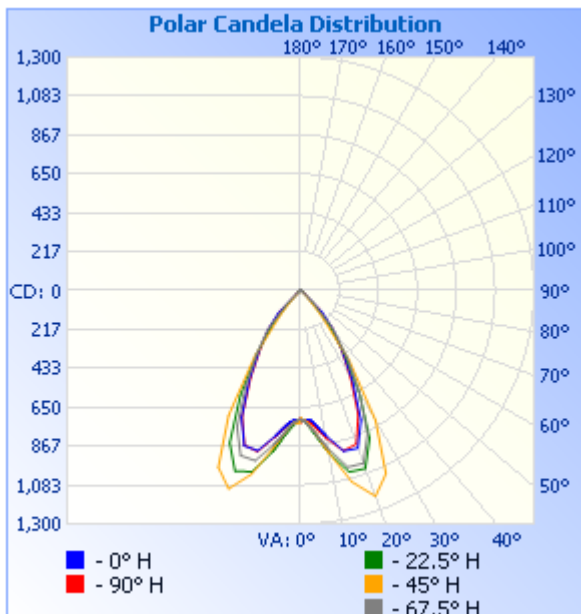
#### Photometric and Electrical Test Data

Input Voltage: 120 VAC

Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	Ithd (%)
1173.40	14.93	120.21	0.13	78.59	0.984	0.12

Luminous Intensity Summary: Cd



Illumination Cone of Light  
Mounting Ht: 10 ft.

	Illuminance at a Distance	
	Center Beam fc	Beam Width
1.7ft	249 fc	1.8 ft
3.3ft	66.0 fc	3.6 ft
5.0ft	28.7 fc	5.4 ft
6.7ft	16.0 fc	7.2 ft
8.3ft	10.4 fc	9.0 ft
10.0ft	7.19 fc	10.8 ft

■ Vert. Spread: 56.8°  
■ Horiz. Spread: 56.6°



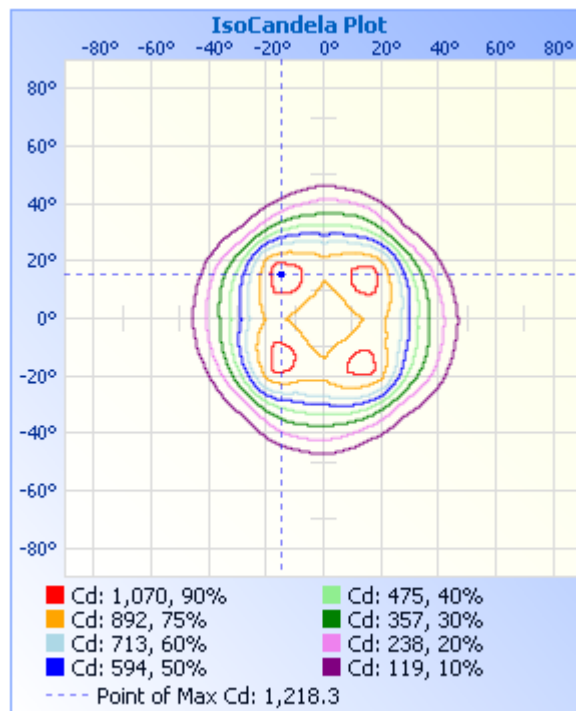
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IsoCandela Plot



### Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	761.5	64.9%
0-40	1,031.6	87.9%
0-60	1,138.1	97%
60-90	13.9	1.2%
70-100	11.3	1%
90-120	9.4	0.8%
0-90	1,152.0	98.2%
90-180	21.4	1.8%
0-180	1,173.4	100%

### Lumens per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	76.9	6.6%	90-100	3.3	0.3%
10-20	282.2	24.0%	100-110	3.2	0.3%
20-30	402.3	34.3%	110-120	3.0	0.3%
30-40	270.2	23.0%	120-130	2.8	0.2%
40-50	91.4	7.8%	130-140	2.7	0.2%
50-60	15.0	1.3%	140-150	2.6	0.2%
60-70	5.9	0.5%	150-160	2.1	0.2%
70-80	4.3	0.4%	160-170	1.3	0.1%
80-90	3.8	0.3%	170-180	0.5	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	719	719	719	719	719	719	719	719	719	719	719	719	719	719	719	719	719
0.1	718	716	712	722	732	719	720	731	727	723	733	715	714	717	703	708	708
0.2	718	717	712	722	732	720	720	730	726	723	733	716	715	718	703	709	708
0.3	719	718	713	722	732	721	720	730	725	723	734	716	715	718	703	709	707
0.4	719	718	713	722	731	722	720	730	725	724	734	716	716	718	704	709	707
0.5	719	719	714	721	731	722	720	729	724	724	734	716	716	718	705	710	707
0.6	719	720	714	721	731	723	720	729	724	725	734	717	717	719	706	710	706
0.7	719	721	715	721	731	724	720	729	723	725	734	717	717	719	706	711	706
0.8	719	721	716	721	731	724	721	728	723	726	734	718	718	719	707	711	706
0.9	719	722	716	721	731	725	721	728	723	726	734	718	718	719	708	712	706
1	719	723	717	722	731	726	722	728	723	727	734	719	719	720	708	713	706
1.1	719	724	718	723	730	726	722	727	722	728	734	720	719	720	709	713	706
1.2	719	725	719	724	730	727	723	727	722	729	734	721	720	720	710	714	706
1.3	719	726	719	725	730	728	723	727	722	730	734	722	720	720	710	715	706
1.4	719	728	720	726	730	729	724	727	722	731	734	722	721	721	712	715	706
1.5	719	729	721	727	730	731	724	726	721	732	734	723	721	721	713	716	706
1.6	719	730	722	728	730	732	725	727	721	733	734	724	722	721	714	717	706
1.7	719	731	723	729	729	733	725	727	721	734	734	725	722	721	715	717	706
1.8	719	733	724	730	729	734	726	728	721	735	734	726	722	722	716	718	707
1.9	720	734	725	731	729	735	727	729	722	736	734	726	723	723	717	719	707
2	720	735	726	732	729	736	728	730	722	737	734	728	723	724	718	720	708
2.1	720	736	728	734	729	737	729	731	722	738	734	729	724	726	720	721	708
2.2	720	738	729	735	729	738	730	732	722	739	734	730	724	727	721	722	708
2.3	720	739	730	737	728	740	731	733	722	741	735	731	725	729	722	723	709
2.4	720	741	731	738	728	741	732	734	722	742	735	732	725	730	723	724	709
2.5	720	742	732	739	728	742	733	734	722	743	735	733	726	731	724	725	710
2.6	720	744	733	741	728	744	734	735	723	744	735	734	726	733	726	726	710
2.7	720	745	735	742	728	745	735	736	723	746	735	735	727	734	727	728	711
2.8	720	746	736	743	728	747	736	737	723	747	736	736	727	736	729	729	711
2.9	720	748	738	745	727	748	737	739	724	748	737	737	728	737	730	730	712
3	720	749	740	746	727	750	738	740	724	749	738	739	728	739	732	731	713
3.1	720	751	741	748	727	751	740	741	725	751	740	740	729	740	734	732	714
3.2	720	752	743	749	727	753	741	742	725	752	741	741	729	742	735	734	714
3.3	720	754	744	751	728	754	742	744	726	754	742	743	730	744	737	735	715
3.4	721	755	746	752	729	756	744	745	726	755	744	744	730	746	738	737	716
3.5	721	757	748	754	730	757	745	746	727	757	745	745	731	747	740	739	717



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3.6	721	759	749	756	731	759	746	748	727	759	746	747	731	749	741	740	717
3.7	721	761	751	757	732	761	748	749	728	760	747	748	732	751	743	742	718
3.8	721	763	752	759	733	763	749	750	728	762	749	749	732	752	745	743	719
3.9	721	764	754	760	734	764	751	752	729	763	750	751	733	754	747	745	720
4	721	766	756	762	736	766	752	753	730	765	752	752	733	756	749	746	721
4.1	721	768	758	763	737	768	754	755	731	766	753	754	734	758	751	748	722
4.2	722	770	760	765	738	770	755	757	732	768	755	755	734	760	753	750	723
4.3	723	772	762	767	739	772	757	758	733	770	757	757	735	762	755	751	724
4.4	724	774	764	768	740	773	759	760	734	772	758	759	735	763	757	753	725
4.5	725	776	766	770	741	775	761	761	735	774	760	760	736	765	759	755	726
4.6	727	778	768	772	743	777	762	763	736	776	761	762	736	767	760	757	728
4.7	728	780	769	774	744	779	764	765	737	777	763	764	737	769	762	759	729
4.8	729	782	771	775	746	781	766	766	738	779	765	765	737	771	765	761	730
4.9	730	785	773	777	747	784	767	768	739	781	766	767	738	773	767	763	731
5	731	787	775	779	748	786	769	770	740	783	768	769	738	775	769	764	732
5.1	732	789	778	781	750	788	771	772	741	785	770	770	740	777	771	766	734
5.2	733	791	780	782	751	790	773	773	742	787	772	772	741	779	773	768	735
5.3	735	793	782	784	752	792	775	775	744	789	774	774	743	781	776	770	737
5.4	736	796	784	787	754	795	777	777	745	791	776	776	744	783	778	772	738
5.5	738	798	786	789	755	797	779	779	746	793	778	778	746	785	780	775	740
5.6	739	800	789	791	757	799	781	781	747	795	780	780	747	787	782	777	742
5.7	741	803	791	793	758	801	783	783	749	798	782	782	749	790	785	780	743
5.8	743	805	793	795	760	803	785	784	750	800	784	784	750	792	787	782	745
5.9	744	807	795	798	761	805	787	786	751	802	786	786	752	794	790	785	746
6	746	810	797	800	763	808	789	788	753	804	788	788	753	796	792	787	748
6.1	747	812	800	802	764	810	791	790	754	806	790	789	754	799	795	789	750
6.2	749	815	803	804	766	812	793	792	756	809	792	791	756	801	798	792	751
6.3	750	817	805	807	767	814	795	794	757	811	794	793	758	803	800	794	753
6.4	752	820	808	809	769	817	798	796	759	813	796	795	760	805	803	797	755
6.5	754	822	811	811	770	819	800	798	760	815	799	797	761	808	806	799	757
6.6	756	825	814	813	772	821	802	800	762	818	801	799	763	810	809	801	758
6.7	757	827	817	816	773	823	805	802	763	820	803	801	765	813	811	804	760
6.8	759	830	819	818	775	826	807	804	765	823	806	803	767	815	814	806	762
6.9	761	832	822	820	777	828	809	806	767	826	808	805	768	818	817	808	764
7	763	835	825	822	779	831	812	808	768	829	811	807	770	820	820	811	765
7.1	765	838	828	825	780	833	814	811	770	831	813	809	772	823	822	813	767
7.2	767	840	831	827	782	835	816	813	771	834	815	811	773	825	825	816	769
7.3	768	843	834	829	784	838	819	815	773	837	818	813	775	827	828	818	771
7.4	770	846	837	831	786	840	821	817	775	839	820	815	777	830	831	820	773
7.5	772	848	840	834	787	843	824	820	777	842	823	817	779	833	834	823	774



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7.6	774	851	843	836	789	845	826	822	779	845	825	819	781	835	837	825	776
7.7	776	854	846	838	791	848	829	824	780	848	828	821	782	838	840	827	778
7.8	778	856	849	841	793	850	832	827	782	850	830	824	784	841	843	830	780
7.9	780	859	852	843	794	853	835	829	784	853	833	826	786	844	846	832	782
8	782	862	855	846	796	856	837	831	786	856	835	828	788	847	848	834	784
8.1	784	865	858	848	798	858	840	834	788	859	838	830	790	849	852	836	785
8.2	786	868	861	851	800	861	843	836	789	862	841	832	792	852	855	839	787
8.3	788	871	864	853	801	864	846	838	791	864	843	835	793	855	858	841	789
8.4	790	874	867	855	803	867	848	841	793	867	846	837	795	858	861	843	791
8.5	792	876	871	858	805	870	851	843	795	870	849	839	797	861	864	846	793
8.6	794	879	874	860	807	872	854	845	797	873	851	841	799	864	867	848	795
8.7	796	882	877	863	808	875	857	848	799	876	854	844	801	866	871	850	797
8.8	798	885	880	865	810	878	861	850	801	878	857	846	803	869	874	853	799
8.9	800	888	883	868	812	881	864	852	803	881	860	848	805	872	877	856	801
9	802	891	886	870	814	883	867	854	804	884	863	850	807	875	880	858	803
9.1	804	893	890	873	816	886	871	857	806	887	866	852	809	878	883	861	805
9.2	806	896	893	875	819	889	874	859	808	890	869	855	811	881	887	863	807
9.3	807	899	896	878	821	892	877	861	810	893	872	857	813	884	890	866	809
9.4	809	902	899	880	823	895	881	864	812	896	875	859	815	887	893	868	811
9.5	811	905	903	883	825	898	884	866	814	899	877	861	817	890	896	871	814
9.6	813	908	906	885	827	901	887	869	816	902	880	864	819	892	899	873	816
9.7	815	910	909	888	829	904	890	871	818	905	883	866	821	895	903	876	818
9.8	817	913	913	890	831	907	894	874	820	908	886	868	823	898	906	878	820
9.9	819	916	916	893	833	910	897	876	822	911	889	871	825	901	909	881	822
10	821	919	919	896	835	912	900	879	824	914	892	873	827	904	912	884	825
15	925	1045	1102	1018	923	1042	1071	981	923	1044	1058	980	927	1032	1082	1006	928
20	933	1054	1218	1023	908	1065	1181	966	920	1069	1174	977	916	1045	1188	1019	931
25	795	908	1124	881	758	932	1094	813	778	935	1086	838	771	908	1086	885	791
30	577	651	835	654	554	678	814	595	571	670	802	610	557	653	786	633	572
35	398	427	465	449	397	429	463	423	398	423	444	424	388	420	426	433	394
40	281	244	171	283	273	238	182	290	282	240	174	285	277	249	154	286	280
45	168	92	52	112	143	83	67	131	175	97	64	122	158	93	53	121	164
50	36	23	21	25	30	22	25	29	37	22	23	25	30	21	20	27	35
55	22	15	12	17	20	14	13	19	23	14	12	17	20	13	11	19	23
60	13	7	7	9	11	8	8	10	13	8	8	9	11	7	7	9	12
65	7	5	5	6	7	5	5	6	7	5	5	5	6	4	4	5	7
70	4	4	4	5	5	5	4	5	5	4	4	4	4	3	3	4	4
75	4	4	4	4	5	4	4	4	5	4	4	4	4	3	3	4	5
80	4	4	3	4	5	4	4	4	4	4	4	4	4	3	3	4	4
85	3	3	3	4	4	4	4	4	4	4	4	3	3	3	3	3	3





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90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
95	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
100	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
105	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
110	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
115	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
120	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
125	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
130	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	3	3
135	3	3	3	4	4	4	4	4	4	4	4	4	4	3	3	3	3
140	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3
145	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
150	4	4	4	4	5	4	5	5	5	5	4	5	4	4	4	4	4
155	4	4	4	4	5	5	5	5	5	5	5	5	5	4	4	4	4
160	4	4	4	5	5	5	5	5	5	5	5	5	4	4	4	4	4
165	4	4	4	5	5	5	5	5	5	5	5	5	4	4	4	4	4
170	5	4	4	5	5	5	5	5	5	5	5	5	5	4	4	4	4
175	4	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4
180	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5