



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-180223-06
Date: February 23, 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 : 4" SQ WW
Model Tested: SQ44VEFLEDWWU-1135K
WO/CS#: S0461

Report Issue Date: February 23, 2018
Date of Test(s): February 19-22, 2018
Total Number of Pages : 9 (including this page)

Report Reviewed by:

Mark Razvi
Photometric Lab Supervisor
Curtis-Straus



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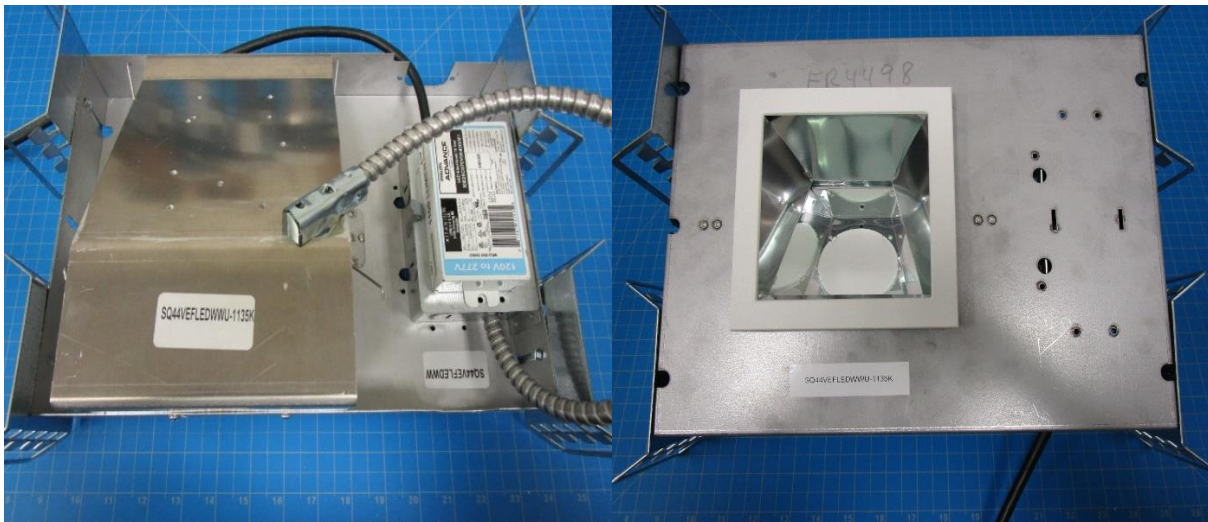
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DETAILED PRODUCT DESCRIPTION

| | |
|-----------------------|---------------------|
| Model # | SQ44VEFLEDWWU-1135K |
| CS/WO# | S0461 |
| Description | 4" SQ 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: 25.9 °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 |

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.



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LM-79-2008 Distribution Test Data

Model # SQ44VEFLEDWWU-1135K
CS/WO# S0461
Description 4" SQ WW
Supply Voltage 120VAC

Result of Tests

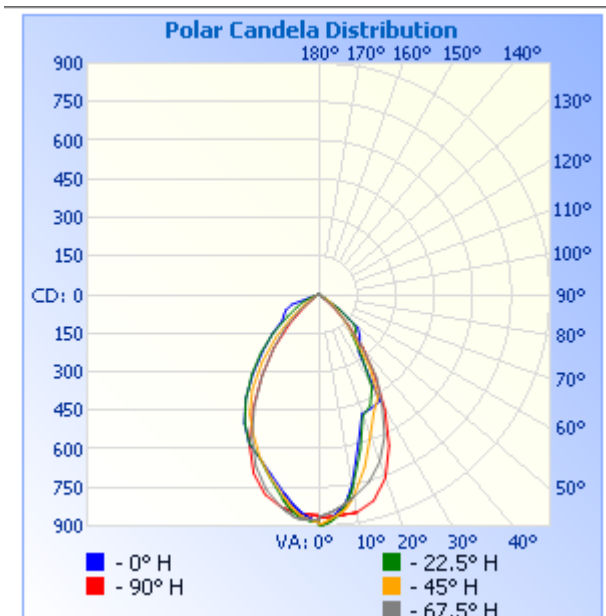
Photometric and Electrical Test Data

Input Voltage: 120 VAC

Base Orientation: Base Up

| Lumens (lm) | Watts (W) | Volts (VAC) | Amps (A) | Efficacy | PF | Ithd (%) |
|-------------|-----------|-------------|----------|----------|--------|----------|
| 1089.29 | 14.63 | 120.21 | 0.12 | 74.45 | 0.9835 | 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 | 304 fc | 2.3 ft 2.2 ft |
| 3.3ft | 80.8 fc | 4.5 ft 4.2 ft |
| 5.0ft | 35.2 fc | 6.8 ft 6.4 ft |
| 6.7ft | 19.6 fc | 9.2 ft 8.6 ft |
| 8.3ft | 12.8 fc | 11.3 ft 10.6 ft |
| 10.0ft | 8.80 fc | 13.7 ft 12.8 ft |

■ Vert. Spread: 68.7°
 ■ Horiz. Spread: 65.3°



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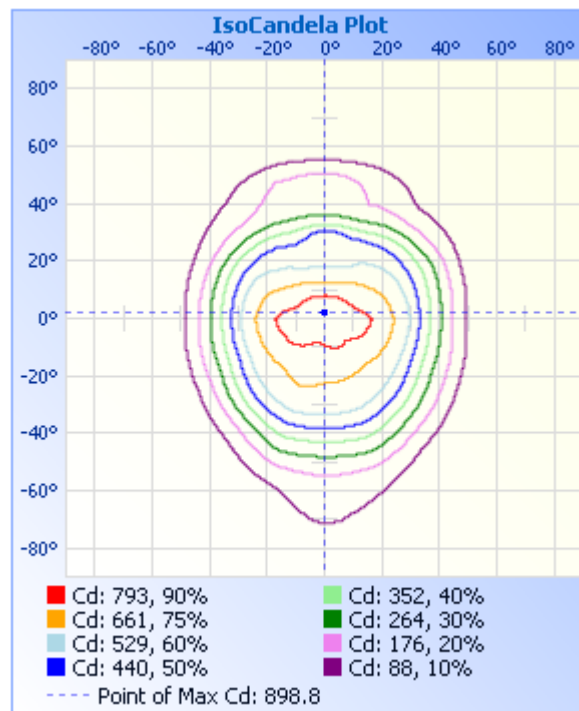
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IsoCandela Plot



Zonal Lumens Summary

Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|--------|---------|-------------|
| 0-30 | 550.9 | 50.6% |
| 0-40 | 796.3 | 73.1% |
| 0-60 | 1,024.0 | 94% |
| 60-90 | 41.6 | 3.8% |
| 70-100 | 19.4 | 1.8% |
| 90-120 | 10.8 | 1% |
| 0-90 | 1,065.6 | 97.8% |
| 90-180 | 23.7 | 2.2% |
| 0-180 | 1,089.3 | 100% |

Lumens per Zone

Lumens Per Zone

| Zone | Lumens | % Total | Zone | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10 | 79.9 | 7.3% | 90-100 | 4.1 | 0.4% |
| 10-20 | 203.5 | 18.7% | 100-110 | 3.4 | 0.3% |
| 20-30 | 267.5 | 24.6% | 110-120 | 3.3 | 0.3% |
| 30-40 | 245.4 | 22.5% | 120-130 | 3.2 | 0.3% |
| 40-50 | 158.4 | 14.5% | 130-140 | 3.1 | 0.3% |
| 50-60 | 69.4 | 6.4% | 140-150 | 2.9 | 0.3% |
| 60-70 | 26.3 | 2.4% | 150-160 | 2.1 | 0.2% |
| 70-80 | 9.8 | 0.9% | 160-170 | 1.2 | 0.1% |
| 80-90 | 5.5 | 0.5% | 170-180 | 0.4 | 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 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 |
| 0.1 | 891 | 899 | 894 | 864 | 868 | 880 | 884 | 885 | 881 | 880 | 880 | 876 | 857 | 859 | 874 | 888 | 893 |
| 0.2 | 891 | 899 | 893 | 864 | 868 | 880 | 883 | 884 | 881 | 880 | 880 | 876 | 857 | 859 | 874 | 889 | 893 |
| 0.3 | 891 | 898 | 893 | 863 | 868 | 880 | 883 | 884 | 881 | 880 | 880 | 876 | 857 | 858 | 875 | 889 | 893 |
| 0.4 | 891 | 898 | 893 | 863 | 867 | 880 | 883 | 883 | 880 | 880 | 880 | 876 | 857 | 858 | 875 | 889 | 894 |
| 0.5 | 891 | 898 | 892 | 862 | 867 | 880 | 882 | 883 | 880 | 880 | 879 | 876 | 857 | 858 | 875 | 889 | 893 |
| 0.6 | 891 | 897 | 892 | 862 | 867 | 880 | 882 | 882 | 879 | 880 | 879 | 876 | 857 | 857 | 875 | 889 | 893 |
| 0.7 | 891 | 897 | 892 | 861 | 867 | 880 | 882 | 881 | 879 | 880 | 879 | 876 | 857 | 857 | 875 | 889 | 892 |
| 0.8 | 891 | 896 | 891 | 860 | 867 | 879 | 881 | 880 | 878 | 880 | 879 | 876 | 857 | 856 | 875 | 889 | 891 |
| 0.9 | 891 | 896 | 891 | 860 | 867 | 879 | 881 | 879 | 878 | 880 | 879 | 876 | 857 | 856 | 875 | 888 | 890 |
| 1 | 891 | 895 | 890 | 859 | 867 | 879 | 880 | 879 | 877 | 880 | 879 | 876 | 857 | 856 | 875 | 888 | 889 |
| 1.1 | 891 | 895 | 889 | 859 | 867 | 879 | 879 | 878 | 877 | 880 | 879 | 876 | 857 | 855 | 875 | 888 | 888 |
| 1.2 | 891 | 894 | 888 | 858 | 867 | 879 | 879 | 877 | 876 | 880 | 879 | 876 | 857 | 855 | 875 | 888 | 887 |
| 1.3 | 891 | 894 | 888 | 858 | 867 | 879 | 878 | 876 | 876 | 880 | 879 | 876 | 857 | 855 | 875 | 887 | 887 |
| 1.4 | 891 | 894 | 887 | 857 | 867 | 879 | 877 | 875 | 876 | 880 | 879 | 875 | 857 | 854 | 875 | 887 | 886 |
| 1.5 | 891 | 893 | 886 | 857 | 867 | 878 | 877 | 874 | 875 | 880 | 878 | 875 | 857 | 854 | 875 | 887 | 885 |
| 1.6 | 890 | 893 | 885 | 856 | 867 | 878 | 876 | 873 | 874 | 880 | 878 | 875 | 857 | 853 | 875 | 887 | 884 |
| 1.7 | 890 | 892 | 884 | 856 | 867 | 878 | 876 | 873 | 874 | 880 | 878 | 875 | 857 | 853 | 875 | 887 | 883 |
| 1.8 | 890 | 891 | 884 | 855 | 866 | 878 | 875 | 872 | 873 | 880 | 877 | 875 | 857 | 853 | 874 | 887 | 882 |
| 1.9 | 889 | 891 | 883 | 855 | 866 | 878 | 874 | 871 | 872 | 880 | 877 | 875 | 856 | 852 | 874 | 886 | 881 |
| 2 | 887 | 890 | 882 | 854 | 866 | 878 | 874 | 869 | 872 | 880 | 877 | 875 | 856 | 852 | 874 | 886 | 880 |
| 2.1 | 886 | 890 | 881 | 854 | 866 | 878 | 873 | 868 | 871 | 880 | 877 | 875 | 856 | 852 | 873 | 885 | 880 |
| 2.2 | 885 | 889 | 880 | 853 | 866 | 878 | 872 | 867 | 870 | 879 | 876 | 875 | 856 | 851 | 873 | 885 | 879 |
| 2.3 | 884 | 888 | 880 | 853 | 866 | 877 | 871 | 866 | 870 | 879 | 876 | 875 | 856 | 851 | 873 | 884 | 878 |
| 2.4 | 882 | 888 | 879 | 852 | 866 | 877 | 870 | 865 | 869 | 879 | 876 | 875 | 855 | 851 | 872 | 884 | 877 |
| 2.5 | 881 | 887 | 878 | 852 | 866 | 877 | 870 | 864 | 868 | 878 | 875 | 875 | 855 | 850 | 872 | 883 | 876 |
| 2.6 | 880 | 886 | 877 | 851 | 866 | 877 | 869 | 863 | 868 | 878 | 875 | 875 | 855 | 850 | 872 | 882 | 875 |
| 2.7 | 878 | 886 | 877 | 851 | 865 | 877 | 868 | 862 | 867 | 878 | 874 | 874 | 855 | 849 | 871 | 882 | 874 |
| 2.8 | 877 | 885 | 876 | 850 | 865 | 877 | 867 | 861 | 866 | 878 | 873 | 874 | 855 | 849 | 871 | 881 | 874 |
| 2.9 | 876 | 884 | 875 | 849 | 865 | 877 | 866 | 860 | 865 | 877 | 873 | 874 | 855 | 849 | 871 | 881 | 873 |
| 3 | 874 | 883 | 874 | 849 | 865 | 877 | 866 | 859 | 864 | 877 | 872 | 874 | 855 | 848 | 870 | 880 | 872 |
| 3.1 | 873 | 882 | 873 | 848 | 865 | 877 | 865 | 857 | 863 | 877 | 872 | 874 | 855 | 848 | 870 | 880 | 871 |



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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3.2 | 872 | 881 | 873 | 848 | 865 | 877 | 864 | 856 | 862 | 876 | 871 | 874 | 855 | 847 | 869 | 879 | 870 |
| 3.3 | 871 | 880 | 872 | 847 | 864 | 877 | 863 | 855 | 861 | 876 | 871 | 874 | 855 | 846 | 869 | 878 | 869 |
| 3.4 | 869 | 879 | 871 | 847 | 864 | 877 | 863 | 854 | 860 | 875 | 870 | 874 | 855 | 846 | 868 | 877 | 868 |
| 3.5 | 868 | 878 | 870 | 846 | 864 | 877 | 862 | 853 | 860 | 875 | 870 | 874 | 855 | 845 | 867 | 877 | 868 |
| 3.6 | 867 | 878 | 869 | 846 | 864 | 877 | 861 | 851 | 859 | 874 | 869 | 874 | 855 | 844 | 867 | 876 | 867 |
| 3.7 | 865 | 877 | 869 | 845 | 864 | 876 | 860 | 850 | 858 | 874 | 868 | 874 | 855 | 844 | 866 | 875 | 866 |
| 3.8 | 864 | 876 | 868 | 844 | 864 | 876 | 859 | 849 | 857 | 873 | 868 | 874 | 855 | 843 | 865 | 874 | 865 |
| 3.9 | 863 | 875 | 867 | 844 | 863 | 876 | 859 | 848 | 856 | 873 | 867 | 874 | 855 | 843 | 864 | 873 | 864 |
| 4 | 861 | 874 | 866 | 843 | 863 | 876 | 858 | 847 | 855 | 873 | 866 | 874 | 855 | 842 | 864 | 871 | 863 |
| 4.1 | 860 | 872 | 866 | 842 | 863 | 876 | 857 | 845 | 854 | 872 | 865 | 874 | 855 | 841 | 863 | 870 | 862 |
| 4.2 | 859 | 871 | 865 | 842 | 863 | 876 | 856 | 844 | 853 | 872 | 865 | 874 | 855 | 841 | 862 | 869 | 861 |
| 4.3 | 858 | 870 | 864 | 841 | 863 | 876 | 856 | 843 | 852 | 871 | 864 | 874 | 855 | 840 | 861 | 868 | 861 |
| 4.4 | 856 | 869 | 863 | 840 | 863 | 876 | 855 | 841 | 850 | 870 | 863 | 874 | 855 | 840 | 860 | 867 | 860 |
| 4.5 | 855 | 868 | 862 | 839 | 863 | 876 | 854 | 840 | 849 | 869 | 862 | 874 | 855 | 839 | 860 | 865 | 859 |
| 4.6 | 854 | 867 | 862 | 839 | 863 | 876 | 854 | 838 | 848 | 869 | 862 | 875 | 855 | 838 | 859 | 864 | 858 |
| 4.7 | 852 | 866 | 861 | 838 | 863 | 876 | 853 | 837 | 847 | 868 | 861 | 875 | 855 | 838 | 858 | 863 | 857 |
| 4.8 | 851 | 864 | 860 | 837 | 863 | 876 | 852 | 836 | 846 | 867 | 860 | 875 | 855 | 837 | 857 | 861 | 856 |
| 4.9 | 850 | 863 | 859 | 836 | 862 | 876 | 852 | 834 | 845 | 867 | 859 | 874 | 855 | 836 | 856 | 860 | 855 |
| 5 | 848 | 862 | 858 | 836 | 862 | 875 | 851 | 833 | 844 | 866 | 858 | 874 | 855 | 836 | 855 | 859 | 855 |
| 5.1 | 847 | 860 | 858 | 835 | 862 | 875 | 850 | 832 | 843 | 865 | 857 | 874 | 854 | 835 | 854 | 857 | 854 |
| 5.2 | 846 | 859 | 857 | 834 | 862 | 875 | 850 | 830 | 842 | 864 | 856 | 874 | 854 | 834 | 852 | 856 | 853 |
| 5.3 | 845 | 857 | 856 | 834 | 862 | 875 | 849 | 829 | 841 | 864 | 854 | 874 | 854 | 834 | 851 | 855 | 852 |
| 5.4 | 843 | 856 | 855 | 833 | 862 | 875 | 849 | 828 | 840 | 863 | 853 | 873 | 854 | 833 | 850 | 853 | 851 |
| 5.5 | 842 | 854 | 855 | 832 | 862 | 875 | 848 | 826 | 839 | 862 | 852 | 873 | 853 | 832 | 849 | 852 | 850 |
| 5.6 | 841 | 853 | 854 | 832 | 862 | 875 | 847 | 825 | 838 | 861 | 851 | 873 | 853 | 831 | 848 | 850 | 849 |
| 5.7 | 839 | 851 | 853 | 831 | 862 | 874 | 847 | 824 | 837 | 860 | 850 | 873 | 853 | 831 | 846 | 849 | 849 |
| 5.8 | 838 | 850 | 852 | 830 | 862 | 874 | 846 | 822 | 836 | 859 | 849 | 872 | 852 | 830 | 845 | 847 | 848 |
| 5.9 | 837 | 848 | 851 | 830 | 862 | 874 | 845 | 821 | 835 | 858 | 848 | 872 | 852 | 829 | 844 | 846 | 847 |
| 6 | 836 | 847 | 851 | 829 | 862 | 874 | 845 | 820 | 834 | 857 | 847 | 871 | 852 | 828 | 843 | 844 | 845 |
| 6.1 | 834 | 845 | 850 | 828 | 862 | 874 | 844 | 818 | 832 | 856 | 845 | 870 | 851 | 828 | 841 | 842 | 843 |
| 6.2 | 833 | 843 | 849 | 827 | 862 | 874 | 844 | 817 | 831 | 855 | 844 | 870 | 851 | 827 | 840 | 841 | 841 |
| 6.3 | 832 | 842 | 848 | 827 | 862 | 874 | 843 | 816 | 830 | 854 | 843 | 869 | 851 | 826 | 839 | 839 | 839 |
| 6.4 | 830 | 840 | 848 | 826 | 862 | 874 | 842 | 815 | 829 | 853 | 842 | 868 | 850 | 825 | 838 | 838 | 837 |
| 6.5 | 829 | 838 | 847 | 825 | 862 | 874 | 842 | 813 | 827 | 852 | 841 | 867 | 850 | 825 | 836 | 836 | 835 |
| 6.6 | 828 | 836 | 846 | 824 | 861 | 873 | 841 | 812 | 826 | 851 | 839 | 866 | 850 | 824 | 835 | 834 | 833 |
| 6.7 | 826 | 834 | 844 | 823 | 861 | 873 | 840 | 811 | 825 | 850 | 838 | 865 | 849 | 824 | 834 | 832 | 831 |
| 6.8 | 825 | 832 | 843 | 822 | 861 | 873 | 840 | 810 | 824 | 848 | 837 | 864 | 849 | 823 | 833 | 830 | 830 |
| 6.9 | 824 | 831 | 842 | 822 | 861 | 873 | 839 | 809 | 823 | 847 | 836 | 863 | 849 | 822 | 831 | 829 | 828 |
| 7 | 823 | 829 | 840 | 821 | 861 | 873 | 838 | 807 | 821 | 846 | 834 | 863 | 848 | 822 | 830 | 827 | 826 |
| 7.1 | 821 | 827 | 839 | 820 | 861 | 873 | 838 | 806 | 820 | 845 | 833 | 862 | 848 | 821 | 829 | 825 | 824 |



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| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 7.2 | 820 | 825 | 838 | 819 | 861 | 873 | 837 | 805 | 819 | 844 | 832 | 861 | 848 | 820 | 828 | 823 | 821 |
| 7.3 | 819 | 823 | 836 | 818 | 860 | 872 | 836 | 804 | 817 | 843 | 830 | 860 | 847 | 820 | 826 | 821 | 819 |
| 7.4 | 816 | 821 | 835 | 818 | 860 | 872 | 836 | 802 | 816 | 842 | 829 | 860 | 847 | 819 | 825 | 819 | 816 |
| 7.5 | 814 | 819 | 833 | 817 | 860 | 872 | 835 | 801 | 815 | 841 | 828 | 859 | 847 | 819 | 823 | 818 | 814 |
| 7.6 | 812 | 817 | 832 | 816 | 860 | 872 | 835 | 800 | 813 | 839 | 827 | 858 | 846 | 818 | 822 | 816 | 812 |
| 7.7 | 809 | 815 | 831 | 815 | 860 | 872 | 834 | 798 | 812 | 838 | 825 | 857 | 846 | 818 | 821 | 813 | 809 |
| 7.8 | 807 | 812 | 829 | 814 | 860 | 871 | 834 | 797 | 811 | 837 | 824 | 857 | 846 | 817 | 819 | 811 | 807 |
| 7.9 | 804 | 810 | 828 | 814 | 860 | 871 | 833 | 796 | 809 | 836 | 823 | 856 | 846 | 817 | 818 | 809 | 804 |
| 8 | 802 | 808 | 826 | 813 | 860 | 871 | 833 | 794 | 808 | 834 | 821 | 855 | 845 | 816 | 817 | 806 | 802 |
| 8.1 | 800 | 806 | 825 | 812 | 860 | 870 | 832 | 793 | 806 | 833 | 820 | 854 | 845 | 815 | 815 | 804 | 800 |
| 8.2 | 797 | 804 | 823 | 811 | 860 | 870 | 832 | 792 | 805 | 832 | 819 | 854 | 845 | 815 | 814 | 802 | 797 |
| 8.3 | 795 | 802 | 821 | 810 | 860 | 869 | 831 | 790 | 804 | 831 | 817 | 853 | 844 | 814 | 812 | 800 | 795 |
| 8.4 | 793 | 800 | 820 | 810 | 860 | 869 | 831 | 789 | 803 | 829 | 816 | 852 | 844 | 814 | 811 | 797 | 792 |
| 8.5 | 790 | 797 | 818 | 809 | 860 | 868 | 830 | 788 | 801 | 828 | 815 | 851 | 844 | 813 | 809 | 795 | 790 |
| 8.6 | 787 | 795 | 817 | 808 | 860 | 868 | 830 | 787 | 800 | 827 | 813 | 850 | 843 | 813 | 807 | 793 | 787 |
| 8.7 | 785 | 793 | 815 | 807 | 860 | 867 | 830 | 785 | 799 | 825 | 812 | 850 | 843 | 812 | 806 | 791 | 784 |
| 8.8 | 782 | 791 | 814 | 806 | 860 | 867 | 829 | 784 | 797 | 824 | 810 | 849 | 843 | 811 | 804 | 788 | 782 |
| 8.9 | 780 | 788 | 812 | 806 | 860 | 866 | 828 | 783 | 796 | 823 | 809 | 848 | 843 | 810 | 803 | 786 | 779 |
| 9 | 777 | 786 | 810 | 805 | 860 | 866 | 828 | 782 | 795 | 821 | 808 | 847 | 842 | 810 | 801 | 783 | 777 |
| 9.1 | 774 | 784 | 809 | 804 | 860 | 865 | 827 | 781 | 794 | 820 | 806 | 846 | 842 | 809 | 799 | 781 | 774 |
| 9.2 | 772 | 782 | 807 | 803 | 860 | 865 | 827 | 779 | 792 | 818 | 805 | 846 | 842 | 808 | 798 | 779 | 772 |
| 9.3 | 769 | 779 | 805 | 802 | 860 | 864 | 826 | 778 | 791 | 817 | 804 | 845 | 841 | 807 | 796 | 776 | 769 |
| 9.4 | 766 | 777 | 804 | 801 | 860 | 863 | 826 | 777 | 790 | 815 | 802 | 844 | 841 | 807 | 795 | 774 | 766 |
| 9.5 | 764 | 774 | 802 | 801 | 860 | 862 | 825 | 776 | 788 | 814 | 801 | 843 | 841 | 806 | 793 | 771 | 764 |
| 9.6 | 761 | 772 | 800 | 800 | 860 | 861 | 825 | 774 | 787 | 812 | 799 | 842 | 840 | 805 | 791 | 769 | 761 |
| 9.7 | 758 | 769 | 798 | 799 | 860 | 861 | 824 | 773 | 786 | 811 | 798 | 841 | 840 | 804 | 790 | 766 | 758 |
| 9.8 | 755 | 767 | 797 | 798 | 860 | 860 | 824 | 772 | 785 | 809 | 796 | 840 | 840 | 803 | 788 | 764 | 756 |
| 9.9 | 753 | 764 | 795 | 798 | 860 | 859 | 823 | 771 | 784 | 808 | 795 | 840 | 839 | 802 | 786 | 761 | 753 |
| 10 | 750 | 762 | 793 | 797 | 859 | 858 | 822 | 770 | 782 | 807 | 793 | 839 | 839 | 802 | 785 | 759 | 750 |
| 15 | 597 | 626 | 693 | 755 | 829 | 799 | 770 | 725 | 721 | 735 | 733 | 785 | 805 | 753 | 704 | 623 | 598 |
| 20 | 493 | 502 | 587 | 693 | 758 | 723 | 694 | 691 | 675 | 673 | 671 | 712 | 740 | 685 | 602 | 513 | 493 |
| 25 | 486 | 475 | 507 | 607 | 648 | 626 | 617 | 663 | 639 | 637 | 600 | 614 | 638 | 601 | 528 | 495 | 487 |
| 30 | 478 | 415 | 461 | 495 | 515 | 506 | 550 | 596 | 577 | 575 | 536 | 501 | 510 | 493 | 478 | 440 | 477 |
| 35 | 272 | 292 | 350 | 392 | 379 | 380 | 461 | 504 | 495 | 493 | 450 | 382 | 383 | 400 | 381 | 289 | 271 |
| 40 | 248 | 202 | 219 | 258 | 267 | 265 | 342 | 404 | 397 | 403 | 342 | 274 | 271 | 288 | 238 | 182 | 248 |
| 45 | 226 | 206 | 143 | 148 | 159 | 167 | 214 | 312 | 305 | 316 | 236 | 184 | 159 | 175 | 133 | 170 | 226 |
| 50 | 198 | 181 | 99 | 80 | 72 | 78 | 114 | 228 | 233 | 230 | 138 | 95 | 69 | 89 | 74 | 163 | 198 |
| 55 | 98 | 99 | 67 | 26 | 23 | 17 | 56 | 139 | 172 | 146 | 67 | 24 | 21 | 27 | 54 | 89 | 98 |
| 60 | 22 | 29 | 36 | 16 | 13 | 12 | 28 | 80 | 155 | 99 | 29 | 15 | 13 | 17 | 33 | 27 | 21 |
| 65 | 7 | 10 | 14 | 13 | 9 | 9 | 14 | 48 | 140 | 70 | 18 | 11 | 9 | 13 | 13 | 11 | 7 |



LM-79 Distribution Test Report (Luminaire)

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

Report No.: PHM-RPT-180223-06

Date: February 23, 2018

CURTIS-STRAUS

| | | | | | | | | | | | | | | | | | |
|-----|---|---|---|----|---|---|----|----|-----|----|----|---|---|----|----|---|---|
| 70 | 7 | 8 | 9 | 10 | 6 | 7 | 11 | 16 | 110 | 30 | 11 | 8 | 7 | 11 | 10 | 9 | 7 |
| 75 | 6 | 8 | 7 | 6 | 5 | 5 | 6 | 7 | 12 | 9 | 8 | 7 | 6 | 7 | 8 | 8 | 6 |
| 80 | 6 | 7 | 7 | 6 | 5 | 5 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 6 |
| 85 | 6 | 7 | 7 | 5 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 7 | 8 | 8 | 6 |
| 90 | 7 | 7 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 7 | 7 | 7 |
| 95 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 5 | 5 |
| 100 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 105 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 |
| 110 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 |
| 115 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 |
| 120 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 |
| 125 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 4 | 3 | 3 |
| 130 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 3 |
| 135 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 6 | 5 | 4 | 4 | 3 |
| 140 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 3 | 4 | 4 | 5 | 5 | 6 | 5 | 5 | 4 | 4 |
| 145 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 6 | 5 | 4 | 4 |
| 150 | 4 | 4 | 5 | 5 | 4 | 4 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 5 | 5 | 4 | 4 |
| 155 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 |
| 160 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 |
| 165 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 |
| 170 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 |
| 175 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 |
| 180 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |