



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-180223-05
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 : 6" SQ WW
Model Tested: SQ66VEFLEDWWU-2035K
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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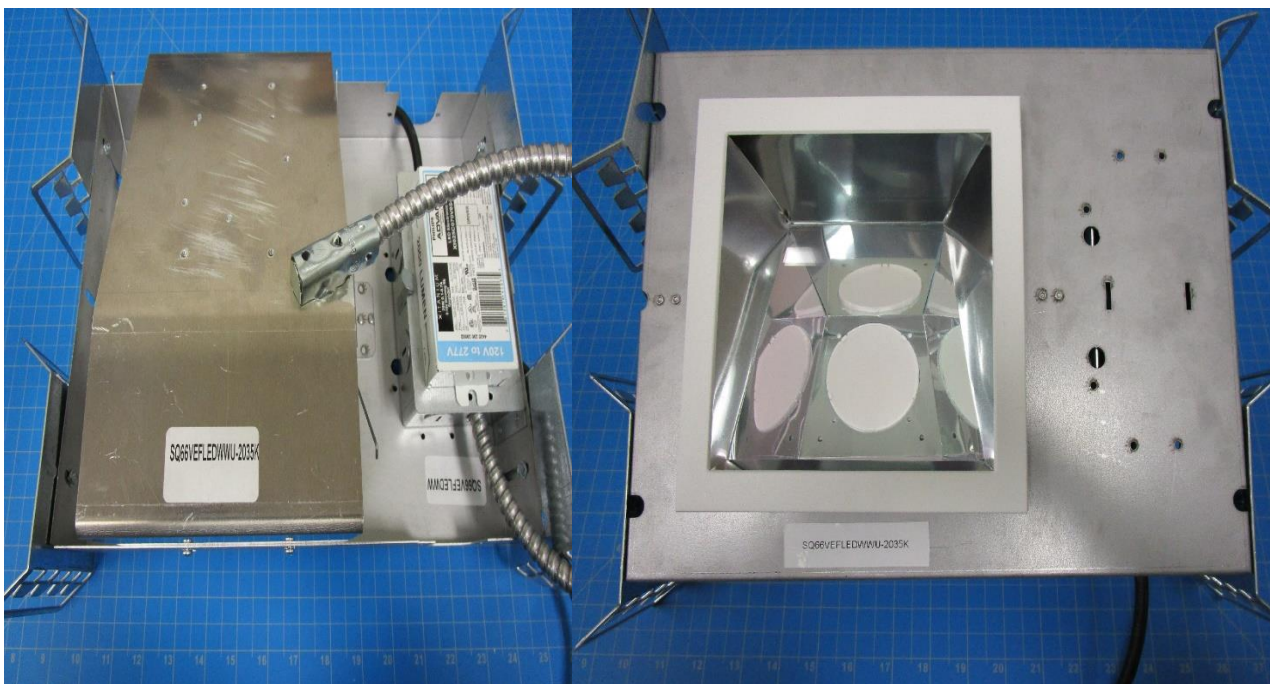
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DETAILED PRODUCT DESCRIPTION

Model #	SQ66VEFLEDWWU-2035K
CS/WO#	S0461
Description	6" 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: 25.1 °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 # SQ66VEFLEDWWU-2035K
CS/WO# S0461
Description 6" SQ WW
Supply Voltage 120VAC

Result of Tests

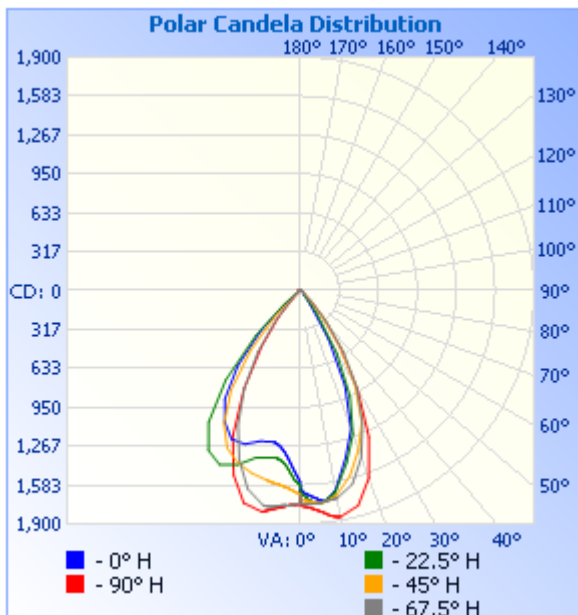
Photometric and Electrical Test Data

Input Voltage: 120 VAC

Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	Ithd (%)
1896.76	26.16	120.28	0.22	72.50	0.9939	0.19

Luminous Intensity Summary: Cd



Illumination Cone of Light
Mounting Ht: 10 ft.

	Illuminance at a Distance	
	Center Beam fc	Beam Width
1.7ft	575 fc	2.1 ft 2.0 ft
3.3ft	153 fc	4.0 ft 3.8 ft
5.0ft	66.5 fc	6.1 ft 5.7 ft
6.7ft	37.0 fc	8.2 ft 7.7 ft
8.3ft	24.1 fc	10.1 ft 9.5 ft
10.0ft	16.6 fc	12.2 ft 11.5 ft

■ Vert. Spread: 62.9°
 ■ Horiz. Spread: 59.7°



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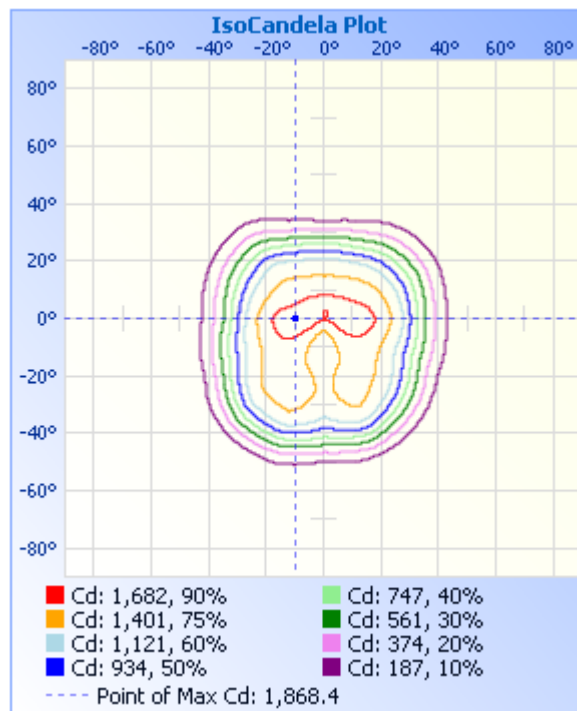
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CURTIS-STRAUS

IsoCandela Plot



Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,154.0	60.8%
0-40	1,596.0	84.1%
0-60	1,816.9	95.8%
60-90	35.4	1.9%
70-100	27.6	1.5%
90-120	23.0	1.2%
0-90	1,852.3	97.7%
90-180	44.4	2.3%
0-180	1,896.8	100%

Lumens per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	157.3	8.3%	90-100	8.8	0.5%
10-20	433.6	22.9%	100-110	8.0	0.4%
20-30	563.1	29.7%	110-120	6.2	0.3%
30-40	442.0	23.3%	120-130	5.1	0.3%
40-50	181.8	9.6%	130-140	5.1	0.3%
50-60	39.0	2.1%	140-150	4.8	0.3%
60-70	16.6	0.9%	150-160	3.6	0.2%
70-80	10.4	0.5%	160-170	2.1	0.1%
80-90	8.4	0.4%	170-180	0.7	0%



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CURTIS-STRAUS

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	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662	1662
0.1	1613	1645	1697	1737	1752	1721	1643	1580	1555	1586	1659	1731	1739	1714	1651	1627	1617
0.2	1617	1648	1699	1737	1752	1721	1641	1576	1551	1583	1657	1732	1739	1715	1653	1630	1621
0.3	1621	1651	1700	1737	1753	1722	1639	1572	1546	1580	1656	1732	1739	1715	1655	1633	1625
0.4	1625	1654	1701	1738	1753	1722	1637	1568	1542	1577	1655	1732	1740	1716	1657	1636	1629
0.5	1629	1657	1702	1738	1754	1722	1635	1564	1537	1574	1653	1732	1740	1716	1659	1640	1633
0.6	1633	1660	1703	1738	1755	1723	1633	1560	1533	1571	1652	1733	1740	1717	1661	1643	1637
0.7	1637	1662	1705	1738	1756	1723	1631	1556	1528	1569	1651	1733	1741	1717	1663	1646	1641
0.8	1641	1665	1706	1738	1756	1723	1629	1552	1524	1567	1649	1734	1741	1718	1665	1649	1645
0.9	1645	1668	1707	1738	1757	1723	1627	1548	1519	1565	1648	1734	1741	1718	1667	1652	1649
1	1646	1670	1708	1739	1758	1724	1625	1544	1515	1563	1646	1735	1742	1719	1669	1656	1653
1.1	1648	1673	1709	1739	1758	1724	1623	1540	1510	1560	1645	1736	1742	1720	1671	1659	1657
1.2	1649	1676	1710	1739	1759	1724	1621	1536	1506	1558	1644	1737	1742	1721	1673	1662	1661
1.3	1651	1679	1710	1739	1760	1725	1619	1532	1501	1556	1642	1737	1742	1722	1675	1665	1663
1.4	1652	1682	1711	1739	1760	1725	1617	1527	1496	1554	1641	1738	1743	1723	1677	1668	1664
1.5	1654	1684	1711	1740	1761	1726	1615	1523	1492	1552	1640	1739	1743	1723	1679	1671	1665
1.6	1655	1687	1712	1740	1762	1726	1613	1519	1487	1550	1638	1739	1743	1724	1681	1674	1666
1.7	1657	1689	1712	1740	1763	1726	1612	1514	1482	1548	1637	1740	1744	1725	1683	1677	1667
1.8	1658	1691	1713	1740	1764	1727	1610	1510	1478	1544	1635	1741	1744	1726	1685	1680	1668
1.9	1660	1693	1713	1740	1764	1727	1608	1506	1473	1540	1634	1742	1744	1727	1687	1683	1669
2	1661	1696	1713	1740	1765	1728	1606	1502	1468	1536	1633	1743	1744	1727	1689	1685	1670
2.1	1663	1698	1714	1740	1766	1728	1604	1497	1464	1531	1631	1744	1745	1728	1691	1688	1672
2.2	1664	1700	1714	1740	1767	1729	1602	1493	1459	1527	1630	1746	1745	1729	1693	1691	1673
2.3	1666	1702	1715	1740	1768	1729	1601	1489	1454	1523	1628	1747	1745	1730	1695	1694	1674
2.4	1667	1704	1715	1740	1769	1730	1599	1485	1449	1519	1627	1748	1746	1731	1696	1696	1675
2.5	1669	1706	1716	1740	1770	1730	1597	1481	1445	1514	1625	1749	1746	1731	1697	1698	1676
2.6	1670	1709	1716	1740	1771	1731	1596	1477	1440	1510	1624	1751	1746	1732	1697	1701	1677
2.7	1672	1711	1717	1740	1771	1731	1594	1473	1435	1506	1623	1752	1746	1733	1697	1703	1678
2.8	1673	1713	1717	1740	1773	1732	1592	1469	1431	1502	1621	1753	1747	1733	1698	1705	1679
2.9	1675	1714	1718	1740	1774	1732	1590	1465	1426	1498	1620	1754	1747	1734	1698	1708	1680
3	1676	1716	1718	1740	1775	1733	1589	1461	1421	1494	1618	1755	1748	1735	1699	1710	1682
3.1	1678	1718	1719	1739	1776	1734	1587	1457	1417	1490	1617	1754	1749	1735	1699	1712	1683



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3.2	1679	1720	1719	1739	1778	1734	1585	1453	1412	1486	1616	1754	1751	1736	1700	1715	1684
3.3	1681	1721	1720	1739	1779	1735	1583	1449	1408	1481	1615	1753	1752	1737	1700	1717	1685
3.4	1682	1723	1720	1739	1780	1735	1582	1446	1404	1477	1614	1753	1753	1738	1700	1719	1686
3.5	1684	1725	1721	1738	1781	1736	1580	1442	1399	1473	1613	1752	1754	1738	1701	1721	1687
3.6	1685	1726	1721	1738	1783	1737	1578	1438	1395	1469	1611	1752	1755	1739	1701	1722	1688
3.7	1686	1728	1722	1738	1784	1738	1576	1434	1391	1465	1610	1751	1756	1740	1702	1724	1689
3.8	1688	1729	1722	1737	1785	1738	1575	1430	1387	1461	1609	1751	1757	1740	1702	1725	1690
3.9	1690	1730	1723	1737	1786	1739	1573	1426	1383	1457	1608	1750	1758	1741	1702	1727	1691
4	1691	1731	1723	1737	1788	1740	1571	1422	1379	1454	1607	1749	1759	1742	1703	1728	1693
4.1	1692	1732	1724	1736	1789	1741	1569	1418	1375	1451	1606	1749	1760	1742	1703	1730	1694
4.2	1694	1733	1724	1736	1791	1741	1568	1415	1371	1448	1605	1750	1761	1743	1704	1731	1695
4.3	1695	1734	1725	1736	1792	1742	1566	1411	1366	1445	1604	1750	1762	1743	1704	1732	1696
4.4	1697	1734	1725	1735	1794	1743	1564	1408	1363	1442	1603	1751	1763	1744	1705	1734	1697
4.5	1698	1735	1725	1735	1795	1744	1563	1405	1359	1439	1603	1751	1764	1745	1705	1735	1698
4.6	1700	1736	1726	1734	1796	1745	1561	1401	1356	1436	1602	1752	1765	1745	1705	1735	1699
4.7	1701	1737	1726	1734	1798	1746	1560	1398	1352	1433	1601	1752	1766	1746	1706	1735	1700
4.8	1703	1738	1727	1733	1799	1747	1558	1395	1349	1430	1601	1753	1767	1746	1706	1736	1701
4.9	1704	1739	1727	1733	1801	1748	1556	1392	1346	1426	1600	1753	1768	1746	1707	1736	1702
5	1706	1738	1728	1732	1802	1749	1555	1389	1342	1423	1600	1754	1769	1747	1707	1736	1704
5.1	1707	1738	1728	1732	1804	1750	1553	1386	1339	1421	1599	1754	1770	1747	1707	1736	1705
5.2	1709	1737	1729	1732	1805	1751	1552	1383	1335	1419	1598	1755	1771	1747	1708	1736	1706
5.3	1710	1737	1729	1731	1807	1752	1550	1379	1332	1417	1598	1756	1772	1747	1708	1736	1707
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5.5	1713	1735	1730	1731	1810	1754	1547	1374	1325	1413	1596	1758	1774	1747	1709	1737	1709
5.6	1715	1735	1731	1730	1811	1754	1546	1371	1323	1411	1595	1759	1775	1748	1710	1737	1710
5.7	1716	1734	1731	1730	1813	1756	1545	1369	1320	1409	1594	1759	1776	1748	1710	1736	1711
5.8	1718	1733	1732	1730	1814	1757	1544	1367	1317	1407	1593	1760	1777	1748	1710	1735	1712
5.9	1719	1733	1732	1729	1816	1758	1543	1364	1315	1405	1592	1761	1778	1748	1711	1733	1714
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6.1	1722	1731	1733	1728	1819	1760	1541	1360	1309	1401	1590	1763	1780	1748	1712	1731	1716
6.2	1724	1729	1734	1728	1821	1761	1539	1357	1307	1399	1589	1764	1781	1748	1712	1730	1717
6.3	1725	1728	1734	1728	1823	1762	1538	1355	1304	1397	1588	1765	1782	1748	1713	1729	1718
6.4	1725	1726	1733	1727	1825	1763	1537	1353	1301	1396	1587	1766	1783	1748	1713	1727	1719
6.5	1723	1725	1731	1727	1827	1764	1536	1350	1299	1394	1587	1767	1784	1748	1713	1726	1720
6.6	1722	1723	1730	1727	1829	1765	1535	1348	1296	1393	1586	1767	1785	1748	1714	1725	1721
6.7	1720	1721	1729	1726	1831	1766	1534	1346	1294	1391	1586	1768	1786	1748	1714	1724	1722
6.8	1719	1720	1728	1726	1833	1767	1534	1345	1292	1390	1586	1769	1787	1748	1715	1722	1722
6.9	1717	1718	1727	1726	1835	1768	1533	1343	1290	1388	1585	1770	1788	1748	1715	1721	1721
7	1716	1716	1726	1725	1837	1769	1532	1341	1288	1387	1585	1770	1789	1748	1715	1720	1719
7.1	1714	1715	1724	1725	1839	1770	1532	1339	1286	1385	1584	1771	1790	1748	1716	1718	1717



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7.2	1713	1713	1723	1724	1841	1771	1531	1337	1284	1384	1584	1772	1791	1748	1716	1717	1716
7.3	1711	1712	1722	1724	1843	1772	1531	1336	1282	1382	1584	1773	1792	1748	1717	1716	1714
7.4	1710	1710	1721	1724	1844	1773	1530	1334	1280	1382	1583	1774	1794	1748	1717	1714	1712
7.5	1708	1708	1720	1723	1846	1774	1529	1332	1278	1381	1583	1774	1795	1748	1718	1713	1711
7.6	1706	1707	1719	1723	1847	1774	1529	1330	1276	1381	1583	1774	1796	1747	1718	1712	1709
7.7	1704	1705	1718	1723	1848	1775	1528	1329	1274	1380	1582	1775	1798	1747	1718	1710	1707
7.8	1702	1704	1717	1722	1850	1776	1528	1328	1273	1379	1582	1775	1799	1747	1719	1709	1706
7.9	1700	1702	1716	1722	1851	1777	1528	1327	1272	1379	1581	1775	1800	1747	1719	1707	1704
8	1698	1701	1714	1722	1853	1777	1528	1326	1270	1378	1581	1776	1802	1747	1718	1705	1702
8.1	1696	1699	1713	1721	1854	1778	1528	1325	1269	1378	1580	1776	1803	1747	1717	1703	1699
8.2	1694	1697	1712	1721	1855	1778	1528	1324	1268	1377	1580	1776	1804	1747	1716	1701	1697
8.3	1692	1696	1711	1721	1857	1778	1528	1323	1266	1377	1579	1776	1806	1747	1715	1699	1695
8.4	1690	1694	1710	1720	1858	1779	1528	1322	1265	1376	1579	1777	1807	1747	1714	1697	1692
8.5	1688	1692	1709	1720	1859	1779	1528	1321	1264	1376	1579	1777	1808	1747	1713	1695	1690
8.6	1686	1689	1708	1720	1860	1780	1528	1320	1262	1377	1578	1777	1810	1747	1712	1693	1688
8.7	1683	1687	1707	1719	1861	1780	1528	1319	1261	1377	1577	1777	1811	1747	1711	1692	1686
8.8	1680	1685	1706	1719	1861	1780	1528	1318	1260	1378	1577	1777	1813	1747	1710	1690	1683
8.9	1677	1683	1704	1719	1862	1781	1528	1318	1259	1378	1576	1777	1814	1747	1709	1688	1681
9	1675	1681	1703	1718	1863	1781	1528	1317	1258	1378	1575	1777	1815	1747	1708	1685	1679
9.1	1672	1679	1702	1718	1864	1781	1529	1317	1257	1379	1574	1777	1817	1747	1707	1682	1676
9.2	1669	1677	1701	1717	1865	1781	1529	1317	1257	1379	1573	1776	1818	1747	1705	1679	1672
9.3	1666	1675	1700	1717	1865	1781	1529	1316	1256	1380	1573	1776	1819	1747	1703	1676	1669
9.4	1663	1673	1699	1717	1866	1781	1530	1316	1255	1380	1572	1776	1821	1746	1702	1673	1666
9.5	1661	1670	1697	1716	1867	1781	1530	1316	1254	1381	1571	1776	1822	1745	1700	1670	1663
9.6	1658	1667	1696	1716	1867	1782	1530	1315	1254	1381	1570	1776	1824	1745	1699	1667	1660
9.7	1655	1663	1695	1716	1868	1782	1530	1315	1253	1381	1569	1776	1824	1744	1697	1664	1657
9.8	1651	1660	1693	1715	1868	1782	1531	1315	1252	1381	1569	1775	1825	1744	1695	1661	1653
9.9	1647	1657	1691	1715	1868	1782	1531	1314	1252	1381	1568	1774	1826	1743	1694	1658	1650
10	1643	1654	1690	1714	1868	1782	1531	1314	1251	1381	1568	1773	1826	1743	1692	1655	1647
15	1410	1448	1557	1631	1811	1718	1553	1367	1268	1407	1538	1670	1789	1677	1552	1438	1413
20	1198	1241	1375	1444	1622	1566	1569	1458	1330	1509	1492	1461	1597	1485	1347	1224	1200
25	856	952	1180	1191	1315	1355	1547	1552	1332	1563	1414	1204	1306	1216	1094	906	857
30	456	583	884	914	925	1112	1468	1536	1234	1502	1247	918	922	915	785	549	458
35	138	238	571	607	561	814	1284	1379	1076	1306	985	605	553	604	476	221	137
40	49	71	277	325	287	480	961	1063	795	949	636	320	281	309	209	61	49
45	40	40	100	127	108	199	566	633	453	515	290	112	91	123	71	39	41
50	36	31	36	37	37	71	202	278	159	186	64	38	35	39	40	32	36
55	25	26	37	26	27	36	35	70	62	50	25	40	29	30	34	25	25
60	15	16	29	21	21	33	21	22	25	21	20	27	24	24	23	16	15
65	14	14	16	15	15	15	14	19	23	18	14	16	17	17	15	14	14



LM-79 Distribution Test Report (Luminaire)

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

Report No.: PHM-RPT-180223-05

Date: February 23, 2018

CURTIS-STRAUS

70	12	12	11	14	12	11	11	14	20	13	12	11	14	16	12	12	12
75	6	7	9	11	8	8	10	9	9	10	11	10	10	13	10	8	6
80	6	7	8	8	7	7	8	7	7	9	8	9	9	9	11	8	6
85	6	7	7	9	8	6	5	5	5	7	7	8	9	11	14	8	6
90	6	7	7	6	6	6	5	5	6	7	7	16	10	9	14	7	7
95	5	4	4	7	6	6	4	5	6	6	7	15	18	18	14	5	5
100	5	4	6	7	6	6	5	5	6	7	10	15	17	17	11	5	4
105	4	4	5	6	6	6	5	5	6	6	10	14	16	15	7	5	4
110	4	4	4	6	6	5	5	5	6	7	11	11	16	14	6	5	4
115	4	4	4	4	5	5	5	5	6	7	9	9	14	8	6	5	4
120	4	4	4	4	4	4	4	5	6	7	7	7	9	7	6	5	4
125	5	5	4	4	4	4	5	5	6	7	7	7	7	7	7	5	5
130	5	7	5	5	4	5	5	5	6	7	7	8	7	8	8	6	5
135	6	6	7	5	5	5	5	5	6	7	8	8	8	8	8	6	6
140	6	7	10	6	5	5	5	6	7	8	8	9	9	9	9	7	6
145	6	8	11	7	6	6	6	6	7	8	8	9	10	10	10	7	6
150	7	8	10	7	6	6	6	6	7	8	9	9	10	10	9	7	7
155	7	7	8	7	6	6	6	6	8	8	9	9	10	10	9	7	7
160	7	7	7	6	6	6	6	7	8	8	9	9	9	9	9	8	7
165	7	7	6	6	6	6	6	7	8	9	9	9	9	9	8	7	7
170	7	7	7	6	6	6	7	7	8	9	9	9	9	9	8	8	7
175	7	7	7	6	6	6	7	7	8	9	9	9	9	9	8	8	7
180	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7