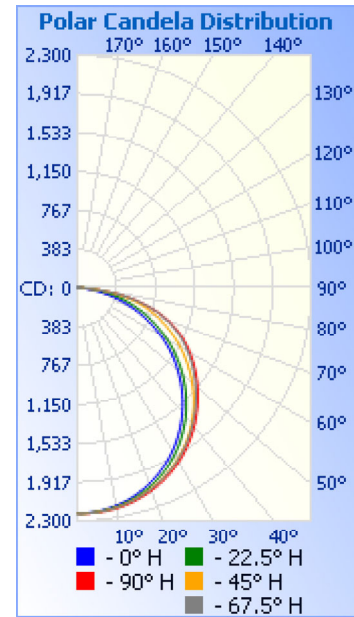


Photometrics Pro

Luminaire Photometric Report

Filename: CCT Adjustable Troffer 2x4 TF24 - 50W
Manufacturer: SARIN Energy Inc.
Luminaire: SES-TF24-V01 50W
Lamp Output: Total luminaire Lumens: 6937.6
Max Candela: 2,234.2 at Horizontal: 90°, Vertical: 3°
Input Wattage: 52.42
Luminous Opening: Point
Test: Nick
Test Date: 08 October 2018
Test Lab: Standard-Tech Co., Ltd. Testing Center
Photometry : Type C
Nema Type: 7 X 7

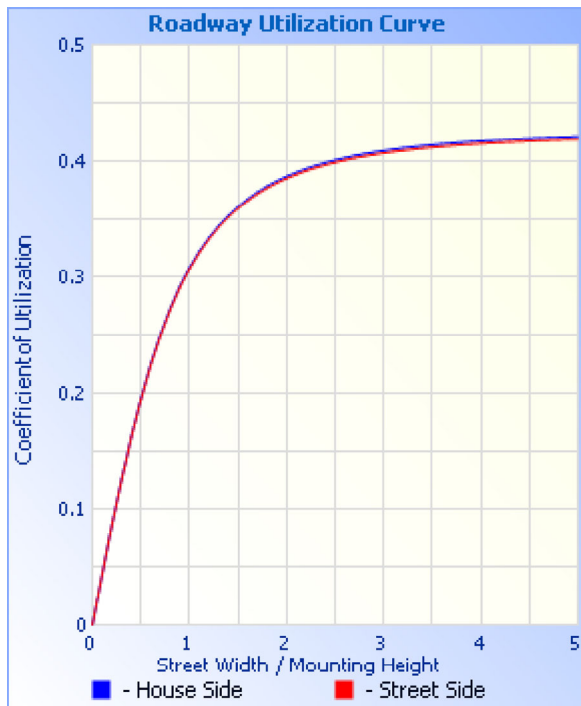
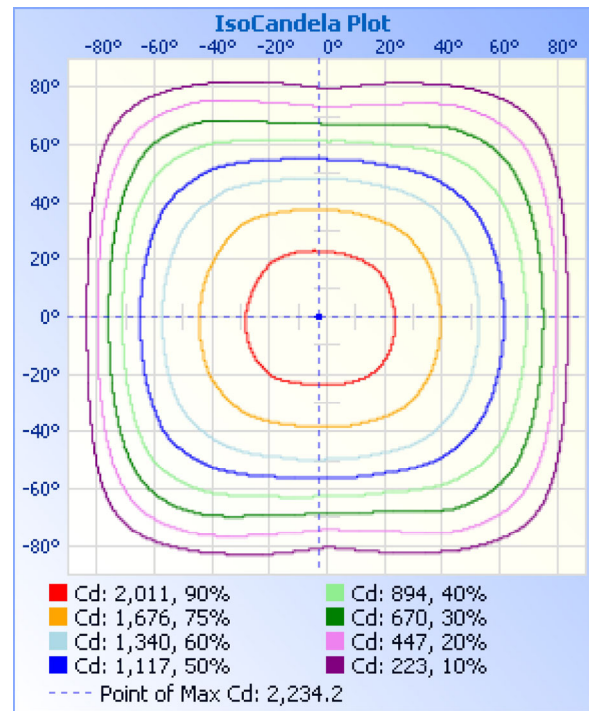
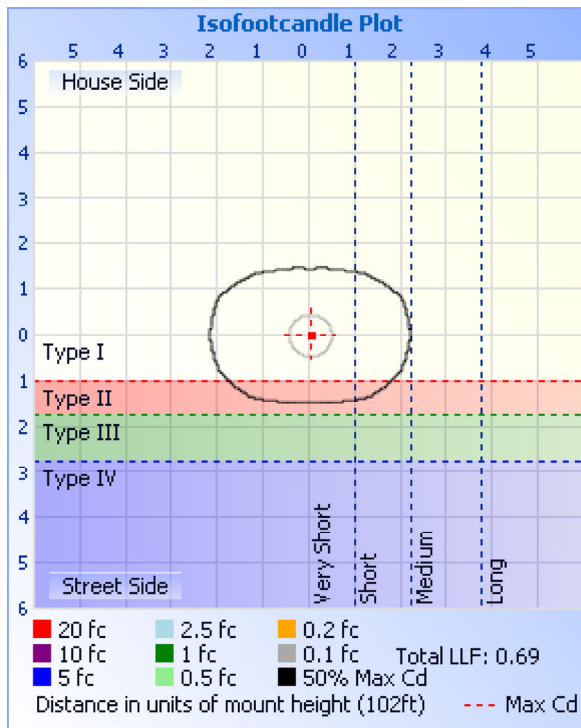


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	13.2	
Max Cd, 80 to <90 Deg:	478.5	
	Lumens	% Lamp
Downward Street Side:	3,438.7	49.6%
Downward House Side:	3,470.3	50%
Downward Total:	6,909.0	99.6%
Upward Street Side:	13.9	0.2%
Upward House Side:	15.2	0.2%
Upward Total:	29.2	0.4%
Total Lumens:	6,938.1	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.6%	6,842.9	167.2	160.5
Beam (50%):	74.5%	5,168.2	126.7	111.5
Total:	100%	6,934.7		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,745.3	25.2%
0-40	2,874.5	41.4%
0-60	5,192.5	74.8%
60-90	1,715.9	24.7%
70-100	788.7	11.4%
90-120	17.1	0.2%
0-90	6,908.4	99.6%
90-180	29.2	0.4%
0-180	6,937.6	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	211.4	3.0%	90-100	5.1	0.1%
10-20	607.4	8.8%	100-110	6.0	0.1%
20-30	926.5	13.4%	110-120	6.0	0.1%
30-40	1,129.2	16.3%	120-130	4.6	0.1%
40-50	1,194.5	17.2%	130-140	3.2	0%
50-60	1,123.6	16.2%	140-150	2.1	0%
60-70	932.3	13.4%	150-160	1.0	0%
70-80	617.0	8.9%	160-170	0.9	0%
80-90	166.5	2.4%	170-180	0.3	0%



Illuminance at a Distance

Center Beam fc	Beam Width	Beam Width
8.00 fc	49.0 ft	66.5 ft
2.01 fc	97.7 ft	132.7 ft
0.89 fc	146.8 ft	199.2 ft
0.50 fc	195.8 ft	265.8 ft
0.32 fc	244.5 ft	331.9 ft
0.22 fc	293.5 ft	398.5 ft

Vert. Spread: 111.5°
Horiz. Spread: 126.7°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.03	.98	.94	1.05	1.00	.96	.83	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2	.98	.89	.82	.76	.95	.87	.80	.69	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67
3	.89	.78	.69	.62	.86	.76	.68	.58	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56

4	.81	.68	.59	.52	.79	.67	.58	.49	.64	.57	.51	.62	.56	.50	.60	.54	.50	.47
5	.74	.61	.52	.45	.72	.60	.51	.43	.58	.50	.44	.55	.49	.43	.54	.48	.43	.41
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.50	.43	.38	.48	.42	.38	.35
7	.63	.50	.41	.34	.62	.49	.40	.33	.47	.39	.34	.46	.39	.33	.44	.38	.33	.31
8	.59	.45	.36	.30	.57	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.30	.28
9	.55	.41	.33	.27	.54	.41	.33	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.29	.24	.22

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	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232	2232
1	2232	2233	2233	2233	2233	2234	2234	2233	2232	2231	2231	2231	2230	2230	2230	2231	2232
2	2231	2232	2233	2234	2234	2234	2234	2232	2231	2230	2230	2229	2228	2227	2228	2229	2231
3	2228	2230	2232	2233	2234	2234	2234	2230	2228	2228	2228	2226	2225	2224	2225	2227	2228
4	2225	2229	2230	2231	2233	2234	2233	2228	2225	2225	2224	2222	2221	2220	2222	2223	2225
5	2222	2225	2228	2230	2232	2233	2231	2225	2222	2221	2220	2219	2216	2215	2217	2219	2222
6	2217	2221	2225	2226	2230	2231	2229	2221	2217	2217	2216	2214	2210	2210	2212	2214	2217
7	2212	2217	2221	2223	2228	2229	2226	2216	2211	2211	2211	2208	2205	2204	2207	2208	2212
8	2205	2212	2217	2219	2224	2226	2223	2211	2205	2205	2205	2202	2198	2197	2200	2202	2205
9	2198	2206	2212	2215	2221	2222	2218	2205	2198	2198	2199	2195	2189	2189	2193	2194	2198
10	2189	2200	2206	2209	2217	2218	2214	2198	2189	2191	2192	2188	2181	2182	2186	2186	2189
11	2181	2193	2200	2202	2211	2213	2208	2190	2180	2182	2184	2179	2172	2173	2177	2177	2181
12	2171	2185	2193	2196	2205	2206	2202	2181	2170	2173	2176	2170	2162	2163	2168	2168	2171
13	2161	2176	2186	2189	2199	2200	2194	2172	2161	2164	2166	2161	2152	2153	2158	2156	2161
14	2149	2166	2177	2181	2192	2193	2187	2162	2149	2153	2157	2151	2141	2142	2148	2145	2149
15	2137	2156	2169	2172	2184	2185	2179	2151	2138	2142	2147	2140	2129	2130	2135	2133	2137
16	2124	2145	2159	2163	2175	2176	2170	2139	2124	2130	2135	2128	2117	2118	2124	2120	2124
17	2110	2133	2149	2153	2166	2167	2160	2127	2110	2117	2123	2117	2104	2105	2111	2106	2110
18	2095	2121	2138	2142	2156	2157	2150	2113	2096	2103	2111	2103	2091	2092	2098	2092	2095
19	2080	2107	2127	2131	2146	2147	2139	2099	2081	2089	2098	2089	2076	2077	2084	2077	2080
20	2064	2093	2115	2120	2135	2136	2126	2085	2065	2074	2085	2075	2061	2062	2069	2061	2064
21	2047	2078	2102	2107	2123	2124	2114	2070	2049	2059	2070	2060	2046	2046	2054	2045	2047
22	2030	2062	2090	2093	2111	2112	2101	2053	2032	2042	2055	2045	2030	2030	2038	2027	2030
23	2012	2046	2076	2080	2097	2099	2087	2036	2014	2024	2039	2028	2013	2013	2021	2009	2012
24	1993	2028	2062	2066	2084	2085	2073	2019	1995	2007	2022	2012	1996	1996	2004	1991	1993
25	1973	2010	2047	2051	2070	2072	2058	2000	1976	1988	2005	1995	1978	1979	1987	1971	1973
26	1953	1991	2031	2035	2055	2057	2042	1981	1957	1968	1987	1976	1960	1959	1968	1952	1953
27	1932	1971	2015	2019	2039	2041	2026	1962	1936	1948	1970	1959	1941	1940	1949	1930	1932
28	1911	1951	1998	2003	2024	2026	2009	1942	1915	1927	1950	1940	1921	1921	1929	1909	1911
29	1889	1930	1980	1985	2007	2010	1991	1920	1893	1906	1930	1920	1901	1901	1908	1887	1889
30	1866	1908	1963	1968	1990	1992	1973	1899	1871	1884	1911	1899	1881	1880	1887	1865	1866
31	1843	1886	1944	1950	1972	1975	1953	1876	1848	1861	1890	1879	1859	1858	1865	1842	1843
32	1819	1863	1925	1931	1954	1956	1933	1853	1824	1837	1869	1857	1838	1836	1843	1818	1819
33	1795	1840	1905	1911	1934	1937	1913	1831	1800	1814	1846	1835	1816	1814	1821	1794	1795
34	1769	1816	1884	1892	1915	1918	1891	1807	1775	1789	1824	1812	1794	1791	1797	1769	1769
35	1744	1791	1863	1872	1895	1898	1869	1782	1750	1763	1801	1790	1771	1768	1773	1743	1744
36	1717	1765	1842	1851	1875	1877	1847	1757	1724	1738	1778	1767	1748	1745	1749	1718	1717
37	1691	1740	1819	1830	1854	1856	1824	1732	1698	1712	1754	1743	1725	1720	1724	1691	1691
38	1664	1713	1796	1808	1832	1835	1800	1705	1671	1685	1729	1720	1701	1696	1699	1664	1664
39	1636	1686	1774	1787	1810	1813	1776	1680	1644	1658	1705	1696	1677	1672	1673	1637	1636
40	1608	1659	1749	1764	1789	1791	1751	1653	1616	1630	1679	1670	1653	1647	1647	1609	1608
41	1578	1631	1724	1740	1766	1768	1726	1626	1587	1602	1652	1645	1629	1621	1620	1580	1578
42	1550	1602	1699	1717	1742	1745	1700	1598	1558	1573	1626	1619	1605	1596	1593	1552	1550
43	1520	1573	1674	1694	1718	1722	1674	1569	1529	1544	1598	1594	1580	1570	1566	1522	1520
44	1490	1544	1648	1670	1695	1698	1646	1541	1500	1514	1570	1567	1555	1545	1538	1492	1490
45	1459	1514	1620	1646	1671	1673	1619	1512	1469	1483	1542	1541	1530	1518	1510	1462	1459
46	1428	1484	1593	1621	1647	1649	1591	1482	1438	1452	1513	1515	1505	1492	1481	1431	1428

47	1397	1453	1566	1597	1622	1624	1563	1452	1406	1421	1484	1488	1480	1466	1452	1401	1397
48	1365	1422	1537	1571	1597	1599	1535	1422	1375	1390	1455	1461	1455	1440	1423	1369	1365
49	1332	1390	1508	1546	1572	1573	1506	1391	1343	1358	1425	1435	1430	1414	1394	1338	1332
50	1299	1358	1479	1520	1546	1547	1476	1359	1311	1326	1395	1409	1405	1387	1364	1305	1299
51	1266	1326	1450	1495	1521	1520	1446	1327	1278	1293	1365	1382	1380	1361	1335	1273	1266
52	1232	1293	1420	1469	1495	1494	1416	1296	1244	1260	1334	1355	1355	1335	1305	1241	1232
53	1198	1260	1389	1443	1468	1467	1386	1263	1211	1227	1304	1328	1330	1309	1275	1208	1198
54	1164	1226	1358	1416	1442	1440	1355	1231	1176	1194	1273	1302	1305	1282	1245	1175	1164
55	1130	1194	1328	1390	1415	1413	1324	1198	1142	1159	1243	1275	1280	1257	1216	1141	1130
56	1095	1159	1297	1364	1389	1386	1294	1165	1107	1126	1211	1248	1255	1230	1186	1108	1095
57	1059	1125	1265	1337	1362	1358	1262	1131	1072	1091	1181	1221	1230	1204	1156	1074	1059
58	1024	1091	1234	1310	1335	1331	1232	1097	1037	1057	1150	1195	1204	1177	1126	1040	1024
59	988	1056	1202	1283	1307	1303	1200	1064	1001	1022	1119	1168	1179	1150	1096	1006	988
60	952	1022	1170	1255	1279	1274	1168	1029	965	987	1087	1140	1153	1123	1066	971	952
61	915	987	1138	1227	1250	1245	1136	995	929	952	1057	1113	1126	1096	1036	937	915
62	879	951	1106	1198	1222	1216	1105	961	892	917	1026	1086	1100	1068	1006	902	879
63	842	916	1073	1169	1191	1186	1072	926	855	882	995	1058	1072	1040	976	868	842
64	806	880	1041	1139	1161	1155	1040	891	818	846	963	1029	1044	1012	946	834	806
65	769	845	1008	1108	1129	1124	1007	856	781	811	933	1000	1016	983	916	801	769
66	731	811	974	1076	1097	1092	974	821	743	776	901	971	986	953	885	767	731
67	693	776	941	1044	1064	1060	941	786	705	741	870	940	956	923	855	733	693
68	656	741	907	1011	1030	1025	908	751	667	705	839	910	925	892	825	698	656
69	618	705	874	977	995	991	875	716	629	671	807	878	893	861	795	665	618
70	580	669	840	940	958	954	840	680	591	636	775	845	862	830	764	631	580
71	542	634	806	902	919	917	805	645	553	601	743	812	827	797	732	597	542
72	504	598	770	864	877	878	770	610	515	567	710	776	790	762	699	564	504
73	466	563	734	826	834	836	733	575	477	533	677	739	749	724	666	532	466
74	429	528	696	783	788	792	696	541	440	500	643	700	707	684	632	499	429
75	392	493	658	736	738	746	658	506	403	467	608	657	662	641	596	466	392
76	355	458	617	687	687	696	618	472	366	434	571	613	617	597	560	434	355
77	319	424	575	635	634	644	576	438	329	402	533	567	569	552	521	402	319
78	283	390	530	581	580	591	533	405	293	370	493	520	520	505	479	371	283
79	248	356	483	526	523	536	487	371	258	338	449	471	469	456	435	339	248
80	215	323	433	468	464	478	439	338	224	307	405	422	418	407	391	307	215
81	183	288	383	409	403	418	389	304	192	275	359	371	362	356	344	275	183
82	152	253	330	345	339	355	338	268	160	243	312	316	304	300	297	241	152
83	123	217	276	282	276	291	284	231	131	209	263	258	244	242	248	205	123
84	97	179	219	220	217	227	229	193	103	174	212	199	182	184	196	168	97
85	73	139	162	161	157	167	173	154	79	139	159	140	117	123	141	130	73
86	52	100	110	98	94	103	118	114	57	102	105	78	56	63	87	93	52
87	34	62	56	41	37	46	66	75	38	67	53	24	10	15	37	55	34
88	20	29	19	17	16	16	23	38	23	33	12	8	5	6	8	22	20
89	7	8	12	14	16	14	12	11	10	8	5	6	3	5	5	5	7
90	1	4	10	12	13	12	9	5	1	2	4	5	3	4	4	2	1
91	1	3	8	10	10	11	8	4	1	2	4	5	3	4	4	2	1
92	1	3	7	9	6	9	7	3	1	2	4	5	4	4	4	2	1
93	2	3	6	8	6	8	6	3	1	2	4	5	4	4	4	3	2
94	2	3	6	7	6	7	6	3	1	2	4	5	4	4	4	3	2
95	2	3	6	7	7	7	6	3	1	3	4	5	4	4	4	3	2

96	3	4	6	7	7	7	6	4	2	3	4	5	4	4	4	3	3
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109	3	5	8	8	9	9	8	5	4	4	7	7	5	5	6	4	3
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111	3	4	8	9	9	9	8	5	5	4	7	7	5	5	5	4	3
112	3	4	8	9	9	10	8	5	5	4	7	7	5	5	6	4	3
113	3	4	8	9	10	10	8	5	5	4	7	8	6	5	5	4	3
114	3	4	8	9	10	10	8	4	4	4	7	8	6	5	5	4	3
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116	3	4	8	9	10	10	8	4	4	4	7	8	6	5	5	3	3
117	3	4	8	9	10	10	8	4	4	3	6	8	6	5	5	3	3
118	2	3	8	9	10	10	8	4	4	3	6	8	6	6	5	3	2
119	2	3	8	9	10	10	7	4	3	3	6	7	6	6	5	3	2
120	2	3	7	9	10	10	7	4	3	3	6	7	6	6	5	3	2
121	2	3	7	9	10	10	7	4	3	2	6	7	6	5	5	3	2
122	2	3	7	9	10	10	7	3	3	2	6	7	6	5	5	3	2
123	2	3	7	9	9	9	7	3	3	2	6	7	6	5	5	3	2
124	2	2	7	9	9	9	7	3	3	2	6	7	6	5	5	3	2
125	2	1	7	9	9	9	7	2	3	2	6	7	6	5	5	2	2
126	2	1	7	9	9	9	7	2	3	2	6	7	6	5	4	2	2
127	2	1	7	9	9	9	7	1	3	1	6	7	6	5	4	2	2
128	2	1	7	8	9	9	6	1	3	1	5	7	6	5	4	1	2
129	2	1	6	8	9	8	6	1	3	1	5	7	5	5	4	1	2
130	2	1	6	8	9	8	6	1	3	1	5	7	5	5	4	1	2
131	2	1	6	8	8	8	6	1	3	1	5	6	5	5	4	1	2
132	2	1	6	8	8	8	6	1	2	1	5	6	5	5	4	1	2
133	2	1	6	8	8	8	6	1	2	1	5	6	5	5	4	1	2
134	2	1	6	8	8	8	6	1	2	1	5	6	5	5	4	1	2
135	2	1	6	7	8	8	6	1	2	1	4	6	5	4	4	1	2
136	2	1	6	7	8	7	6	1	2	1	4	6	5	4	4	1	2
137	2	2	5	7	7	7	6	1	2	1	4	6	5	4	4	1	2
138	2	2	5	7	7	7	5	1	2	1	4	6	5	4	3	1	2
139	3	2	5	7	7	7	5	1	2	1	4	6	5	4	3	1	3
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179	3	3	4	4	4	4	3	3	3	3	4	4	4	3	3	3	3
180	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] Nick
[TESTDATE] 08 October 2018
[TESTLAB] Standard-Tech Co., Ltd. Testing Center
[ISSUEDATE] 2018-10-08 12:16:30
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-TF24-V01 50W
[_TOTALLUMINAIRELUMENS] 6937.6
[_LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 211.38
211.38 3.05 3.0510- 20 607.41 818.79 11.80 11.8020- 30 926.55 1745.34 25.16
25.1630- 40 1129.36 2874.71 41.43 41.4340- 50 1194.72 4069.43 58.65 58.6550- 60
1123.82 5193.25 74.85 74.8560- 70 932.32 6125.56 88.29 88.2970- 80 616.94 6742.50
97.18 97.1880- 90 166.52 6909.03 99.58 99.5890-100 5.07 6914.10 99.65 99.65100-110
5.99 6920.09 99.74 99.74110-120 5.99 6926.08 99.83 99.83120-130 4.58 6930.65 99.89
99.89130-140 3.21 6933.86 99.94 99.94140-150 2.15 6936.01 99.97 99.97150-160 1.00
6937.01 99.98 99.98160-170 0.85 6937.87 100.00 100.00170-180 0.32 6938.18 100.00
100.00

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.