

Photometrics Pro

Luminaire Photometric Report

Filename: CDL06 - CCT & Wattage Tunable Downlight - IES

Manufacturer: SARIN Energy Solutions

Luminaire: 40W-2700K

Lamp: CDL06-6-40W-UP-RA80 1734

Lamp Output: 1 lamp, rated Lumens/lamp: 3696.2

Max Candela: 1,791.1 at Horizontal: 270°, Vertical: 1°

Input Wattage: 37.5607

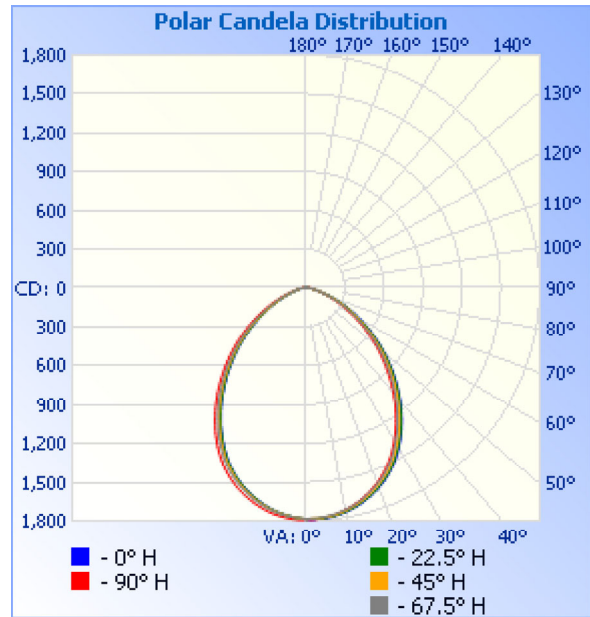
Luminous Opening: Circular (Dia: 5.91")

Test: 1

Test Date: 2024-5-4

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	2.4
Max Cd, 80 to <90 Deg:	63.4
	Lumens % Lamp
Downward Street Side:	1,929.6 52.2%
Downward House Side:	1,757.4 47.5%
Downward Total:	3,687.0 99.8%
Upward Street Side:	3.5 0.1%
Upward House Side:	5.7 0.2%
Upward Total:	9.2 0.2%
Total Lumens:	3,696.2 100%

Flood Summary

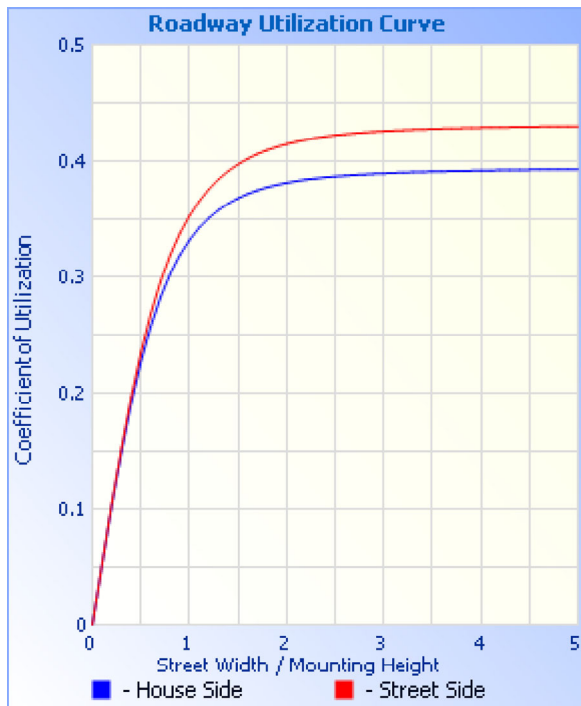
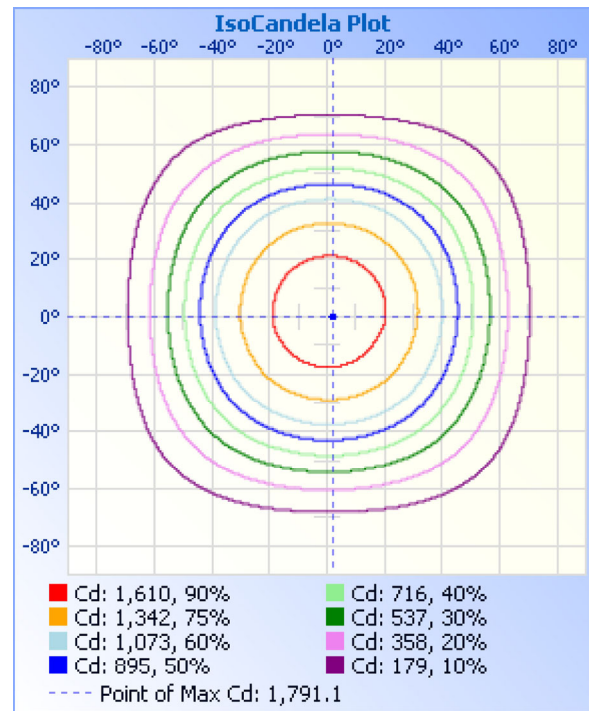
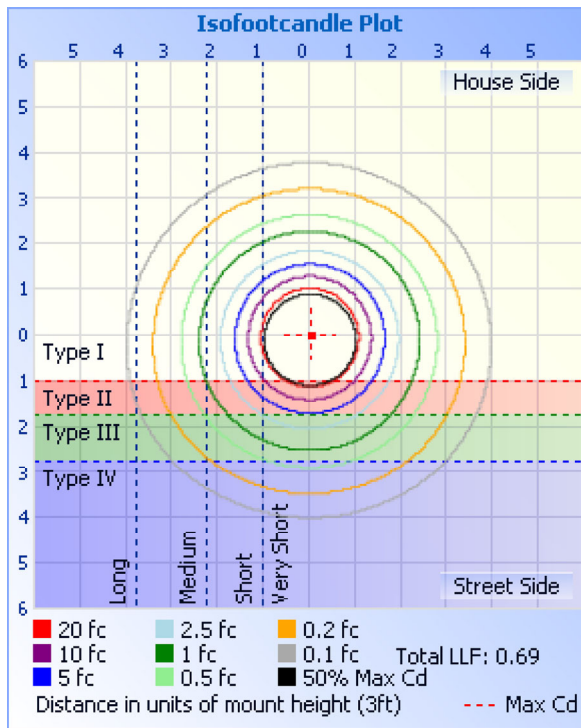
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	96%	3,547.4	139.8	138.8
Beam (50%):	65.7%	2,427.7	89.5	89.4
Total:	100%	3,694.8		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,326.2	35.9%	35.9%
0-40	2,082.2	56.3%	56.3%
0-60	3,268.1	88.4%	88.4%
60-90	418.4	11.3%	11.3%
70-100	134.4	3.6%	3.6%
90-120	9.0	0.2%	0.2%
0-90	3,686.5	99.7%	99.8%
90-180	9.2	0.2%	0.2%
0-180	3,695.7	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	168.1	4.5%	90-100	1.9	0.1%
10-20	472.6	12.8%	100-110	2.9	0.1%
20-30	685.6	18.6%	110-120	4.1	0.1%
30-40	755.9	20.5%	120-130	0.2	0%
40-50	681.8	18.4%	130-140	0	0%
50-60	504.2	13.6%	140-150	0	0%
60-70	285.8	7.7%	150-160	0	0%
70-80	108.8	2.9%	160-170	0	0%
80-90	23.8	0.6%	170-180	0	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0R	446 fc	4.0 ft	4.0 ft
4.0R	112 fc	7.9 ft	7.9 ft
6.0R	49.6 fc	11.9 ft	11.9 ft
8.0R	27.9 fc	15.8 ft	15.9 ft
10.0R	17.8 fc	19.8 ft	19.8 ft
12.0R	12.4 fc	23.7 ft	23.8 ft

■ Vert. Spread: 89.4°
 ■ Horiz. Spread: 89.5°

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	1.11	1.07	1.03	1.00	1.08	1.04	1.01	.88	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2	1.02	.95	.89	.84	.99	.93	.88	.77	.89	.85	.81	.86	.83	.79	.83	.80	.77	.75
3	.94	.85	.78	.72	.92	.83	.76	.67	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66

4	.87	.76	.68	.62	.85	.75	.67	.59	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5	.80	.69	.61	.55	.78	.68	.60	.52	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6	.75	.62	.54	.48	.73	.61	.54	.47	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7	.69	.57	.49	.43	.68	.56	.49	.42	.55	.48	.43	.53	.47	.42	.52	.46	.42	.40
8	.65	.52	.44	.39	.63	.52	.44	.38	.50	.44	.39	.49	.43	.38	.48	.42	.38	.36
9	.61	.48	.41	.35	.59	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.33
10	.57	.45	.37	.32	.56	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30

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	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785	1785
1	1785	1784	1781	1779	1790	1787	1785	1782	1781	1780	1780	1778	1791	1788	1788	1786	1785
2	1786	1784	1781	1779	1789	1784	1781	1778	1777	1777	1777	1776	1790	1789	1789	1787	1786
3	1786	1783	1781	1778	1786	1781	1777	1773	1772	1772	1773	1774	1788	1786	1787	1786	1786
4	1785	1783	1779	1774	1782	1776	1772	1768	1767	1767	1768	1770	1785	1785	1785	1785	1785
5	1783	1780	1776	1771	1778	1769	1766	1763	1761	1761	1762	1765	1780	1781	1782	1784	1783
6	1779	1776	1772	1766	1772	1763	1759	1756	1754	1754	1756	1759	1775	1776	1778	1780	1779
7	1775	1773	1768	1760	1765	1756	1752	1747	1746	1746	1748	1752	1770	1772	1774	1776	1775
8	1769	1767	1762	1754	1758	1748	1743	1738	1737	1736	1740	1744	1763	1768	1768	1771	1769
9	1764	1760	1755	1746	1751	1739	1732	1728	1726	1727	1732	1735	1756	1760	1763	1764	1764
10	1757	1754	1747	1738	1740	1730	1722	1717	1715	1715	1720	1725	1746	1751	1756	1757	1757
11	1748	1745	1738	1729	1730	1718	1711	1705	1702	1704	1710	1714	1736	1743	1746	1750	1748
12	1740	1737	1728	1720	1720	1706	1698	1692	1690	1690	1697	1703	1725	1734	1736	1741	1740
13	1730	1726	1718	1709	1708	1694	1685	1679	1676	1677	1683	1691	1714	1723	1727	1732	1730
14	1719	1715	1707	1697	1694	1680	1671	1662	1661	1662	1670	1678	1702	1712	1716	1722	1719
15	1708	1704	1694	1683	1680	1666	1656	1647	1646	1646	1654	1664	1688	1699	1704	1710	1708
16	1695	1691	1681	1670	1665	1650	1641	1632	1629	1631	1639	1649	1674	1685	1691	1697	1695
17	1683	1679	1667	1655	1651	1634	1624	1616	1612	1614	1623	1632	1659	1671	1678	1684	1683
18	1669	1665	1652	1640	1634	1618	1606	1596	1595	1597	1605	1616	1644	1656	1663	1670	1669
19	1654	1650	1636	1624	1617	1599	1587	1578	1576	1578	1588	1599	1628	1640	1648	1656	1654
20	1639	1633	1620	1606	1599	1580	1568	1557	1556	1558	1568	1581	1610	1624	1632	1639	1639
21	1623	1616	1603	1589	1579	1560	1547	1537	1535	1537	1548	1561	1591	1606	1615	1623	1623
22	1605	1599	1585	1570	1560	1540	1525	1515	1513	1515	1527	1541	1572	1587	1597	1605	1605
23	1586	1581	1565	1550	1539	1518	1501	1491	1489	1492	1504	1520	1551	1568	1578	1587	1586
24	1566	1561	1546	1528	1516	1493	1477	1465	1465	1468	1480	1497	1529	1547	1558	1568	1566
25	1546	1539	1523	1506	1493	1468	1452	1440	1439	1442	1456	1473	1506	1525	1536	1546	1546
26	1524	1517	1500	1482	1467	1442	1427	1413	1412	1416	1431	1449	1482	1501	1514	1524	1524
27	1502	1495	1476	1457	1442	1416	1399	1386	1385	1389	1404	1422	1457	1477	1490	1501	1502
28	1477	1469	1451	1432	1414	1388	1372	1356	1357	1361	1377	1394	1431	1451	1464	1476	1477
29	1452	1444	1425	1404	1386	1360	1343	1328	1328	1332	1349	1367	1403	1425	1439	1451	1452
30	1425	1418	1398	1377	1358	1330	1313	1298	1298	1302	1320	1339	1374	1398	1413	1426	1425
31	1399	1392	1371	1348	1329	1300	1282	1268	1268	1272	1290	1309	1345	1370	1385	1399	1399
32	1370	1363	1343	1320	1299	1271	1252	1237	1237	1241	1260	1280	1316	1340	1357	1371	1370
33	1342	1335	1314	1290	1268	1240	1221	1207	1206	1210	1228	1249	1286	1311	1328	1343	1342
34	1314	1306	1285	1260	1238	1209	1190	1174	1174	1178	1198	1218	1255	1281	1298	1313	1314
35	1283	1276	1254	1228	1206	1178	1158	1142	1142	1146	1166	1187	1224	1251	1267	1283	1283
36	1252	1245	1223	1198	1174	1145	1126	1110	1109	1115	1134	1155	1192	1220	1237	1253	1252
37	1221	1214	1192	1165	1143	1112	1093	1076	1076	1081	1102	1122	1160	1188	1206	1221	1221
38	1190	1183	1160	1133	1110	1079	1061	1044	1044	1049	1068	1090	1128	1156	1175	1190	1190
39	1158	1151	1128	1100	1077	1046	1027	1010	1010	1016	1036	1058	1094	1124	1143	1158	1158
40	1125	1118	1095	1068	1044	1013	994	977	976	982	1002	1024	1061	1091	1112	1126	1125
41	1093	1086	1062	1036	1010	979	961	944	943	949	969	991	1029	1058	1080	1094	1093
42	1060	1053	1030	1003	976	946	927	911	909	916	935	958	995	1025	1047	1062	1060
43	1027	1020	996	971	943	913	893	878	876	883	902	924	962	992	1014	1029	1027
44	994	987	964	938	910	878	861	844	843	849	868	891	929	959	981	995	994
45	961	954	930	903	877	846	828	812	810	816	836	858	895	926	947	961	961
46	928	921	897	871	843	813	794	779	778	783	802	824	862	893	915	929	928

47	895	887	864	838	810	779	762	746	745	750	769	792	828	860	882	895	895
48	861	853	830	805	778	747	730	714	713	718	736	759	796	827	849	861	861
49	828	820	798	772	745	715	696	682	681	686	703	727	763	795	816	828	828
50	795	787	765	740	713	682	664	651	649	653	671	694	730	763	783	795	795
51	761	754	732	707	681	650	633	619	617	622	640	662	698	730	749	762	761
52	729	721	700	675	649	619	601	588	586	590	608	630	666	698	716	729	729
53	696	689	668	644	618	588	571	558	556	560	577	599	635	667	684	696	696
54	663	656	636	612	587	558	541	528	526	529	547	568	603	634	652	664	663
55	632	625	604	581	557	528	511	498	497	499	517	538	573	604	620	632	632
56	600	593	573	551	527	498	481	468	467	470	487	508	542	572	588	601	600
57	569	562	542	520	498	469	452	440	439	441	458	479	512	542	557	570	569
58	539	531	512	491	468	441	424	412	411	412	430	451	483	512	526	540	539
59	508	501	482	462	440	413	397	385	384	385	403	423	454	482	496	509	508
60	479	472	453	433	412	386	370	358	358	358	376	395	426	453	466	479	479
61	449	442	424	405	385	360	344	332	332	332	349	368	398	424	437	450	449
62	421	414	396	378	358	334	319	307	306	308	324	343	371	397	409	421	421
63	392	387	368	351	332	308	294	282	282	283	299	317	345	369	381	393	392
64	365	360	341	324	307	284	271	259	258	260	275	293	319	342	354	366	365
65	338	333	315	299	282	261	248	236	235	237	252	270	294	316	327	339	338
66	311	307	290	274	258	238	226	214	213	216	230	247	269	291	302	311	311
67	285	281	265	251	235	216	205	195	193	196	209	225	246	267	277	284	285
68	257	254	242	228	213	196	185	175	173	177	189	204	223	243	252	258	257
69	229	228	218	206	192	176	166	157	155	159	170	184	202	221	229	232	229
70	203	203	197	185	172	158	149	140	139	142	152	165	182	199	206	206	203
71	178	179	175	165	153	141	133	126	124	127	136	147	162	178	184	181	178
72	155	157	155	148	136	125	118	112	111	114	122	131	145	159	163	159	155
73	135	136	137	131	121	111	105	101	100	102	109	117	128	142	143	138	135
74	117	119	121	117	108	99	94	90	90	92	97	104	114	126	126	120	117
75	102	103	107	104	96	89	85	81	81	83	87	93	102	112	111	104	102
76	89	90	94	93	87	80	77	74	75	75	79	84	91	99	97	90	89
77	78	79	83	83	78	73	71	69	69	69	72	76	81	88	85	80	78
78	70	72	73	74	72	68	65	63	62	64	67	70	74	78	75	73	70
79	63	65	66	68	67	63	59	56	55	57	61	65	69	70	67	65	63
80	55	57	59	62	61	57	53	48	48	50	55	59	63	63	60	57	55
81	47	49	51	55	55	51	46	41	39	42	48	53	57	57	52	49	47
82	38	41	44	48	49	44	38	32	30	33	40	47	51	50	44	40	38
83	29	32	35	41	43	37	29	23	21	24	31	40	45	43	36	31	29
84	20	23	26	33	36	29	21	13	13	15	22	32	39	36	26	22	20
85	12	14	18	24	29	21	11	5	6	6	13	24	32	27	17	12	12
86	5	5	9	16	22	13	4	4	4	4	5	15	25	20	9	4	5
87	2	2	2	9	15	6	3	3	3	3	3	7	18	12	3	2	2
88	1	1	1	5	8	3	3	3	3	3	3	4	10	8	2	1	1
89	1	1	1	2	3	2	2	2	2	2	3	3	3	4	1	1	1
90	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
91	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
92	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
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94	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
95	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1

96	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1
97	1	1	1	1	2	2	2	2	2	2	3	2	1	1	1	1	1
98	1	1	1	1	2	2	3	3	3	3	3	2	1	1	1	1	1
99	1	1	1	2	3	3	3	3	3	3	3	3	2	2	1	1	1
100	1	2	1	2	3	3	3	3	3	3	3	3	2	2	1	2	1
101	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2
102	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2
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106	2	2	2	2	3	4	4	4	4	4	4	4	2	2	2	2	2
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111	3	3	3	3	4	4	5	5	5	4	5	4	3	3	3	3	3
112	3	3	3	3	4	5	5	5	5	5	5	4	3	3	3	3	3
113	3	3	3	3	5	5	5	5	5	5	5	5	3	3	3	3	3
114	3	3	3	3	5	5	5	5	5	5	5	5	3	3	3	3	3
115	3	3	3	3	5	5	5	5	5	5	5	5	3	3	3	3	3
116	3	3	3	3	5	5	5	5	5	5	5	5	4	3	3	3	3
117	3	3	3	4	5	5	6	6	6	6	6	5	4	4	3	3	3
118	3	4	4	4	6	6	6	6	6	6	6	5	4	4	4	4	3
119	4	4	4	4	6	6	6	6	6	6	6	6	4	4	4	4	4
120	4	4	4	4	6	6	6	6	6	6	6	6	4	4	4	4	4
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] 1
[TESTDATE] 2024-5-4
[TESTLAB]
[ISSUEDATE] 2024-05-04 11:28:39
[MANUFAC] SARIN Energy Solutions
[LUMINAIRE] 40W-2700K
[LAMP] CDL06-6-40W-UP-RA80 1734
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 3695.7
[OTHER] EVERFINE GO-2000A_V1 SYSTEM
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.