



IES ROAD REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5N-30-70CRI-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-10659

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 01/23/2020

[TEST DATE] 10/31/18

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] EXN-EGLED-11L-T5N-30-70CRI-HSS

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7970
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	85.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2579
Maximum Candela Angle	17.5H 47.5V
Maximum Candela (<90 Degrees Vertical)	2579
Maximum Candela Angle (<90 Degrees Vertical)	17.5H 47.5V
Maximum Candela At 90 Degrees Vertical	39 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	741 (9.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5N-30-70CRI-HSS.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	714.2	N.A.	9.0
FM - Front-Medium (30-60)	2690.2	N.A.	33.8
FH - Front-High (60-80)	1516.7	N.A.	19.0
FVH - Front-Very High (80-90)	154.8	N.A.	1.9
BL - Back-Low (0-30)	606.6	N.A.	7.6
BM - Back-Medium (30-60)	1758.7	N.A.	22.1
BH - Back-High (60-80)	481.6	N.A.	6.0
BVH - Back-Very High (80-90)	23.3	N.A.	0.3
UL - Uplight-Low (90-100)	12.9	N.A.	0.2
UH - Uplight-High (100-180)	11.0	N.A.	0.1
Total	7970.0	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>17.5</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1247	1247	1247	1247	1247	1247	1247	1247	1247	1247
2.5	1261	1262	1261	1261	1260	1261	1260	1260	1259	1257
5.0	1294	1295	1293	1293	1291	1291	1288	1284	1280	1275
7.5	1336	1338	1334	1337	1334	1330	1324	1318	1312	1303
10.0	1390	1392	1389	1390	1387	1380	1371	1363	1352	1341
12.5	1457	1458	1456	1455	1450	1443	1431	1419	1405	1389
15.0	1534	1537	1538	1533	1530	1516	1501	1485	1468	1448
17.5	1625	1631	1628	1622	1619	1605	1584	1564	1542	1518
20.0	1738	1733	1728	1723	1718	1701	1676	1652	1625	1595
22.5	1851	1846	1840	1840	1827	1806	1782	1753	1721	1685
25.0	1972	1966	1959	1957	1942	1917	1889	1855	1817	1775
27.5	2098	2091	2081	2079	2060	2031	1997	1964	1916	1866
30.0	2220	2215	2199	2196	2174	2142	2108	2065	2010	1954
32.5	2334	2329	2310	2304	2281	2244	2206	2160	2104	2036
35.0	2424	2421	2407	2401	2376	2338	2296	2243	2182	2110
37.5	2484	2483	2480	2477	2454	2420	2371	2315	2250	2171
40.0	2531	2532	2528	2527	2512	2481	2432	2374	2305	2222
42.5	2561	2562	2561	2562	2551	2522	2476	2418	2345	2256
45.0	2576	2578	2579	2579	2571	2545	2502	2444	2368	2275
47.5	2575	2577	2579	2579	2570	2547	2509	2450	2373	2277
50.0	2553	2557	2558	2558	2548	2528	2494	2438	2358	2259
52.5	2513	2516	2517	2518	2508	2488	2457	2401	2322	2221
55.0	2448	2454	2457	2458	2450	2431	2400	2341	2265	2164
57.5	2359	2371	2376	2376	2371	2353	2317	2263	2187	2088
60.0	2251	2267	2274	2271	2268	2251	2217	2163	2084	1991
62.5	2129	2135	2142	2134	2137	2121	2094	2041	1965	1866
65.0	1988	1990	1989	1987	1986	1979	1953	1899	1826	1726
67.5	1822	1817	1826	1828	1822	1810	1796	1742	1669	1572
70.0	1612	1634	1644	1650	1636	1627	1612	1570	1494	1394
72.5	1398	1440	1441	1439	1430	1425	1415	1373	1299	1211
75.0	1173	1229	1219	1217	1207	1204	1199	1159	1103	1013
77.5	946	996	981	976	973	972	953	938	883	798
80.0	716	741	734	720	739	728	716	707	665	588
82.5	486	497	483	482	485	498	485	479	448	387
85.0	270	270	255	266	267	270	274	267	248	213
87.5	89	80	81	82	86	89	91	97	85	74
90.0	39	39	38	37	36	35	31	26	20	17
92.5	39	39	38	38	37	35	31	23	14	8
95.0	36	37	36	35	34	33	28	21	12	7
97.5	32	32	32	31	31	29	26	18	9	5
100.0	28	28	27	27	26	25	22	15	8	3
102.5	21	21	20	20	19	19	17	11	5	2
105.0	14	13	13	13	13	13	12	8	3	1
107.5	6	6	7	7	8	9	8	5	2	1
110.0	0	0	2	2	4	4	4	3	1	1
112.5	0	0	0	0	1	2	2	2	1	1
115.0	0	0	0	0	1	1	1	1	1	2
117.5	0	0	0	0	1	1	1	1	1	1
120.0	0	0	0	0	1	1	1	1	1	2
122.5	0	0	0	0	1	1	1	1	1	2
125.0	0	0	1	1	1	1	1	1	1	2
127.5	0	1	1	1	1	1	1	1	1	2
130.0	1	1	1	1	1	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	2
137.5	1	1	1	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1
162.5	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1
167.5	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1247	1247	1247	1247	1247	1247	1247	1247	1247	1247
2.5	1255	1254	1253	1250	1247	1243	1240	1238	1236	1236
5.0	1269	1266	1263	1256	1250	1243	1237	1233	1229	1227
7.5	1293	1289	1283	1274	1263	1253	1244	1236	1231	1228
10.0	1327	1321	1313	1299	1285	1272	1259	1250	1242	1237
12.5	1372	1364	1354	1335	1316	1300	1285	1272	1263	1255
15.0	1429	1418	1404	1380	1357	1336	1318	1304	1291	1282
17.5	1494	1480	1463	1434	1406	1382	1362	1343	1329	1316
20.0	1566	1549	1532	1496	1463	1433	1409	1387	1369	1358
22.5	1647	1626	1606	1566	1525	1493	1462	1436	1417	1403
25.0	1730	1707	1683	1636	1590	1552	1517	1487	1464	1447
27.5	1815	1788	1761	1708	1657	1611	1570	1536	1510	1491
30.0	1896	1866	1835	1774	1720	1667	1617	1578	1549	1528
32.5	1971	1936	1901	1836	1770	1710	1656	1612	1577	1554
35.0	2037	1998	1959	1885	1811	1743	1682	1633	1594	1566
37.5	2090	2048	2006	1921	1838	1761	1694	1636	1592	1560
40.0	2132	2085	2038	1943	1850	1765	1689	1624	1573	1537
42.5	2161	2109	2057	1952	1848	1752	1667	1590	1533	1492
45.0	2173	2117	2060	1943	1830	1722	1626	1538	1470	1426
47.5	2166	2108	2047	1920	1794	1674	1563	1467	1390	1335
50.0	2142	2081	2013	1879	1740	1609	1482	1373	1286	1225
52.5	2099	2034	1961	1816	1667	1519	1382	1258	1160	1091
55.0	2039	1970	1893	1736	1567	1412	1262	1126	1015	936
57.5	1959	1885	1806	1633	1459	1282	1125	977	854	764
60.0	1859	1779	1693	1518	1331	1142	974	812	677	577
62.5	1731	1648	1567	1386	1189	991	802	630	485	377
65.0	1592	1501	1427	1240	1036	831	633	449	301	198
67.5	1430	1350	1273	1085	877	669	465	293	154	61
70.0	1262	1187	1098	923	717	513	323	167	57	4
72.5	1080	1012	924	749	563	367	206	83	16	0
75.0	890	831	746	586	406	245	121	37	4	0
77.5	699	650	564	424	283	156	62	15	1	0

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CANDELA TABULATION - (Cont.)

80.0	504	466	404	289	181	90	30	6	0	0
82.5	333	297	260	178	104	47	13	2	0	0
85.0	177	160	141	92	50	20	5	1	0	0
87.5	63	55	46	32	16	6	1	0	0	0
90.0	11	8	6	4	1	1	1	0	0	0
92.5	2	1	1	1	1	1	1	1	0	0
95.0	2	1	1	1	1	1	1	1	1	0
97.5	1	1	1	1	1	1	1	1	1	0
100.0	1	1	1	2	1	1	1	1	1	1
102.5	1	1	1	2	2	2	1	1	1	1
105.0	2	2	2	2	2	2	2	1	1	1
107.5	1	2	2	2	2	2	2	1	1	1
110.0	2	2	2	2	2	2	2	1	1	1
112.5	2	2	2	2	2	2	2	2	2	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	1	1	2
132.5	2	2	2	2	2	2	2	1	2	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	1	2	2	2	2	1	1	1
140.0	1	2	1	2	2	2	2	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	0
160.0	1	1	1	1	1	1	1	1	1	0
162.5	1	1	1	1	1	1	1	1	1	0
165.0	1	1	1	1	1	1	1	1	1	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	1	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1247	1247
2.5	1234	1235
5.0	1226	1225
7.5	1225	1225
10.0	1235	1234
12.5	1252	1252
15.0	1277	1277
17.5	1311	1311
20.0	1351	1349
22.5	1395	1392
25.0	1439	1436

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CANDELA TABULATION - (Cont.)

27.5	1482	1482
30.0	1517	1518
32.5	1541	1541
35.0	1552	1550
37.5	1543	1541
40.0	1517	1515
42.5	1471	1468
45.0	1403	1400
47.5	1312	1309
50.0	1193	1195
52.5	1055	1044
55.0	896	883
57.5	717	703
60.0	515	509
62.5	319	312
65.0	137	129
67.5	8	3
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	2	2
115.0	2	1
117.5	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	1
132.5	1	1
135.0	1	1
137.5	1	1
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
152.5	1	1
155.0	1	1
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

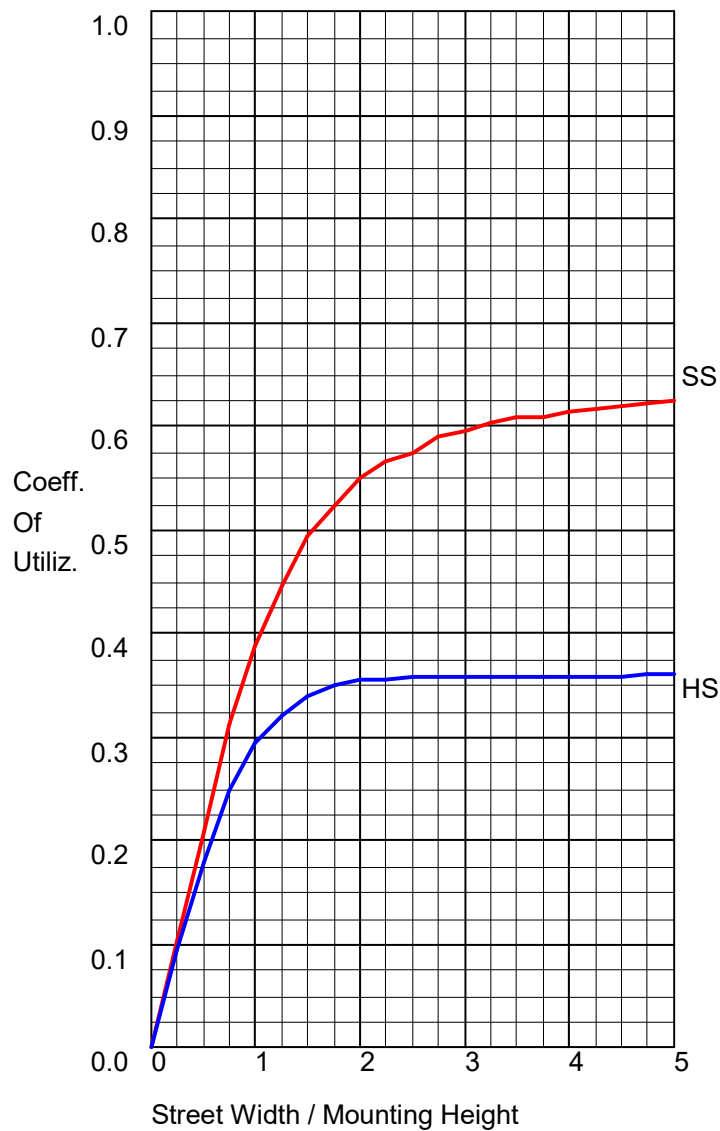
IES ROAD REPORT

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

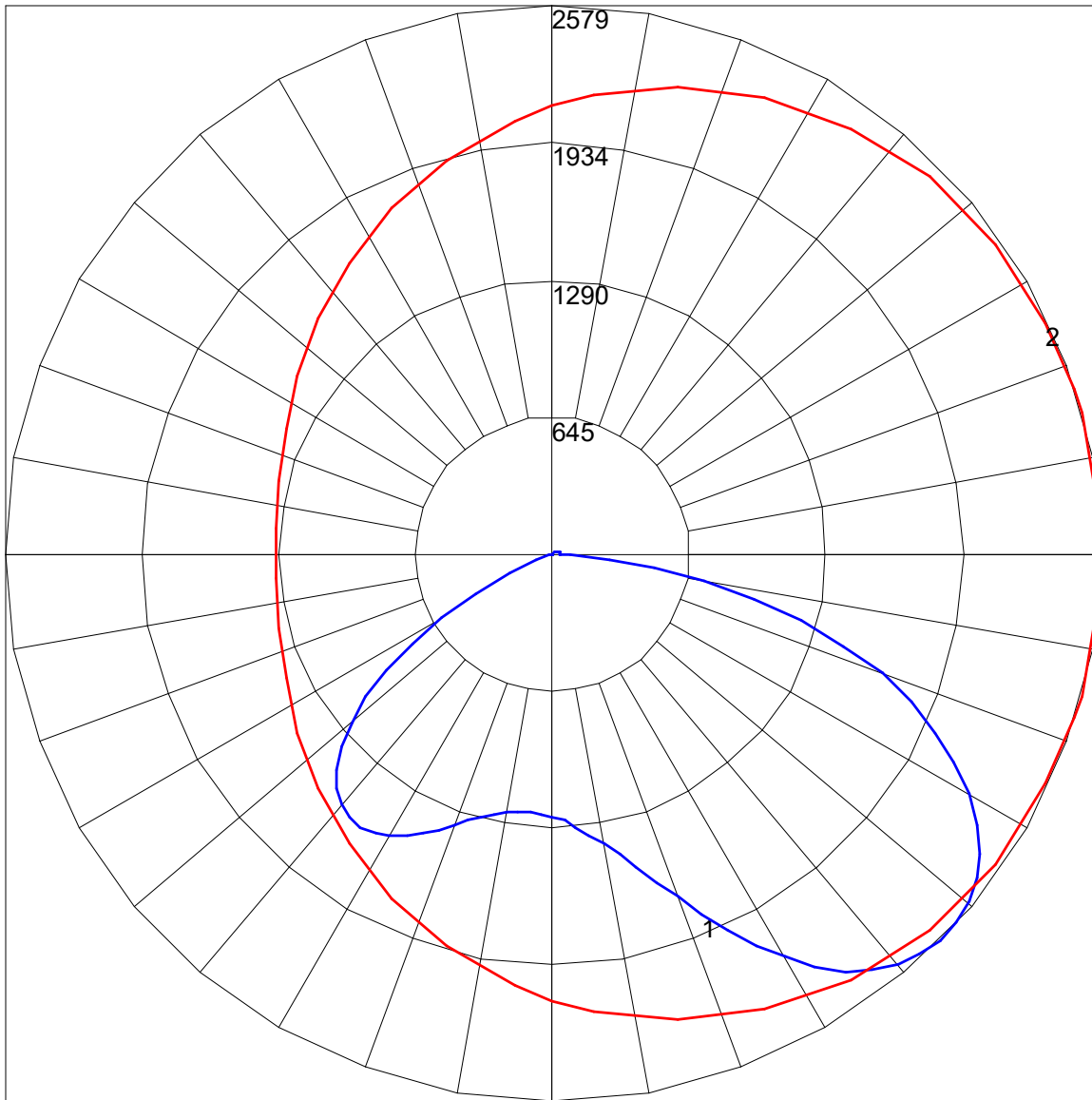
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

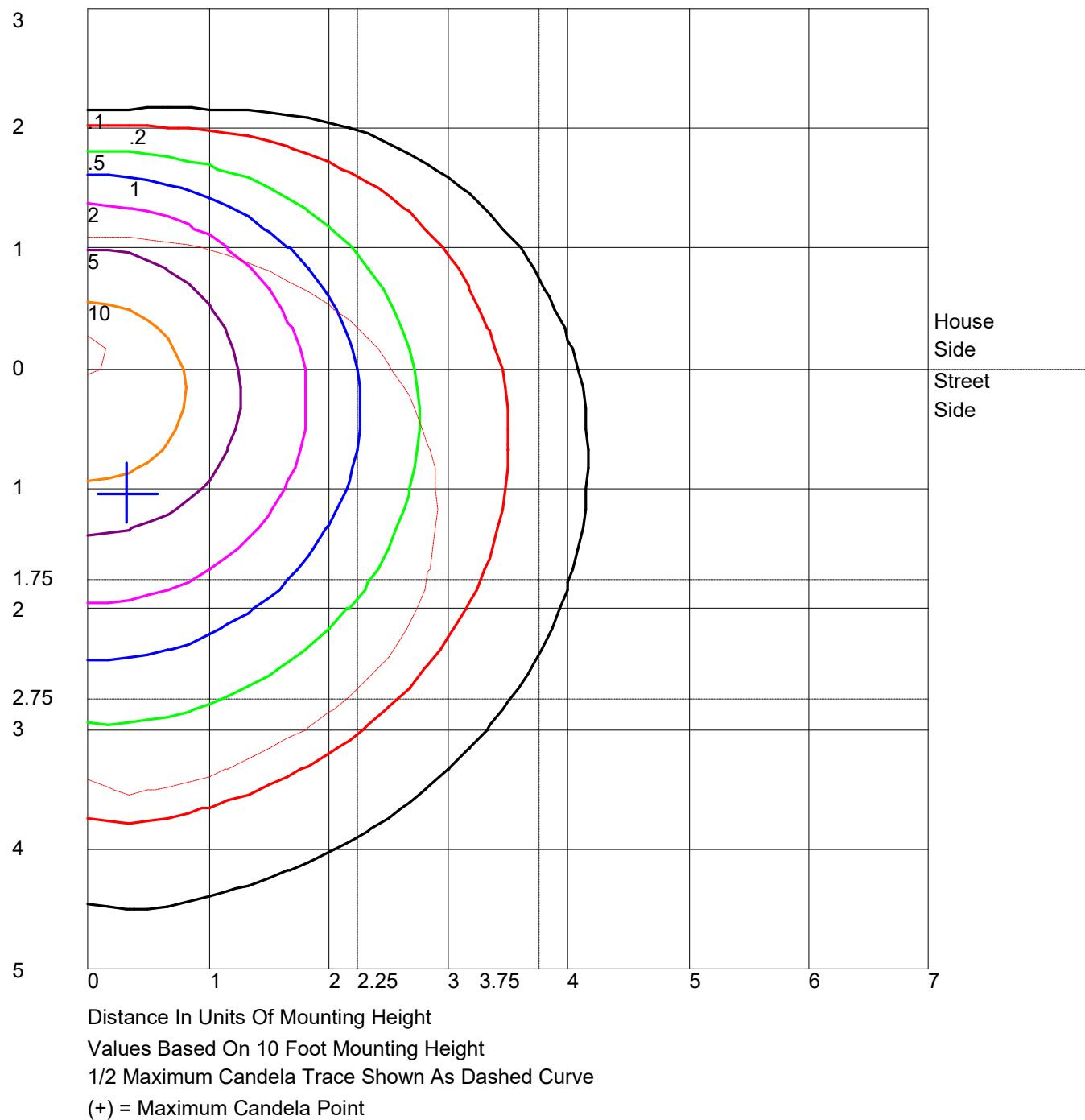
	Lumens	Percent Of Luminaire
Downward Street Side	5075.8	63.7
Downward House Side	2870.2	36.0
Downward Total	7946.0	99.7
Upward Street Side	19.6	0.2
Upward House Side	4.4	0.1
Upward Total	24.0	0.3
Total Flux	7970.0	100.0

POLAR GRAPH

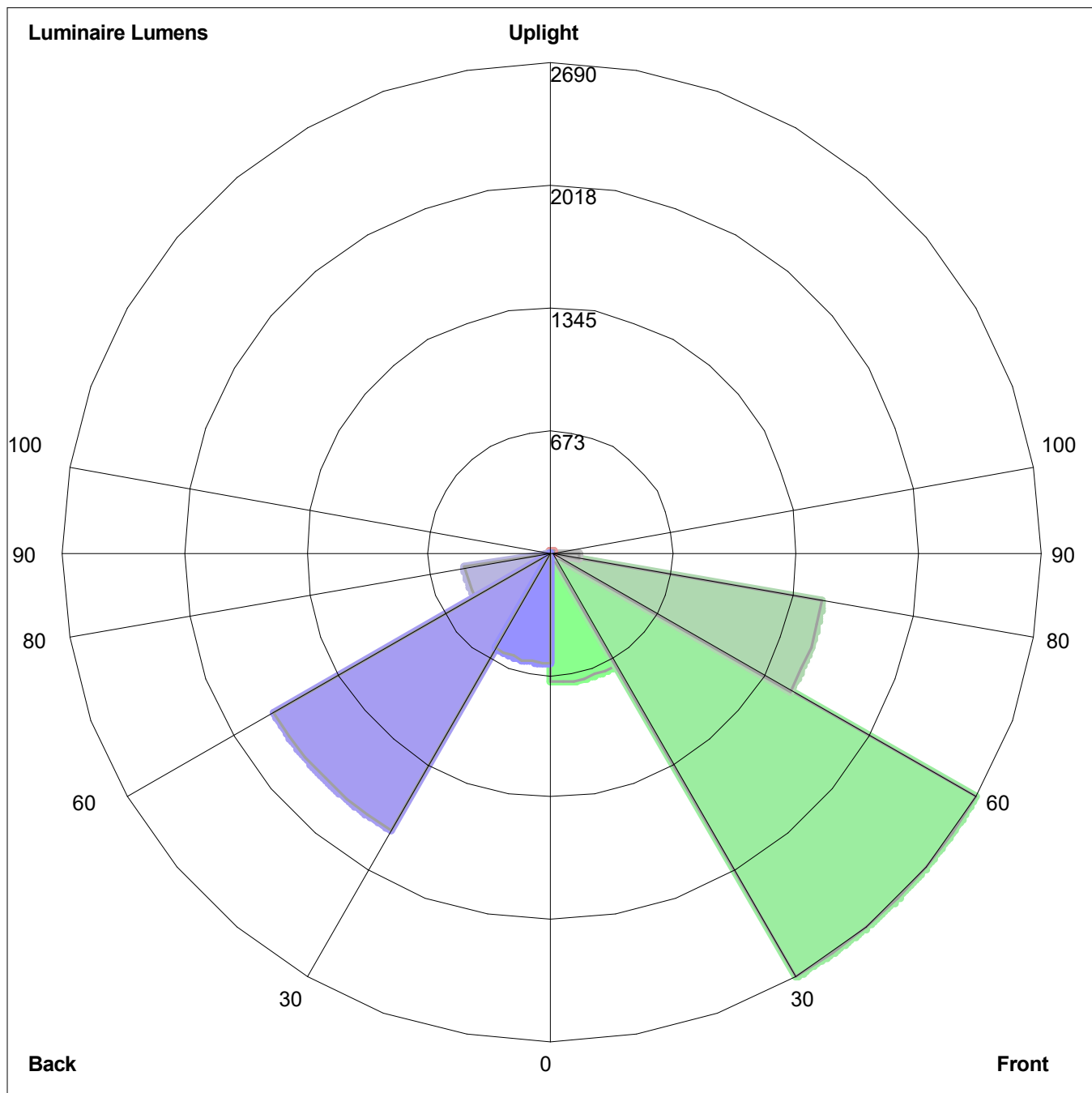


Maximum Candela = 2579 Located At Horizontal Angle = 17.5, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (17.5 - 197.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=714.2, Medium=2690.2, High=1516.7, Very High=154.8
Back: Low=606.6, Medium=1758.7, High=481.6, Very High=23.3
Uplight: Low=12.9, High=11.0

BUG Rating : B2-U2-G2