



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSR-04L-FT-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12866
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/29/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] GSR-04L-FT-40
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] OUTDOOR
[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4186
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	33
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1912
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1912
Maximum Candela Angle (<90 Degrees Vertical)	5H 27.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	191 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	730.9	N.A.	17.5
FM - Front-Medium (30-60)	1618.6	N.A.	38.7
FH - Front-High (60-80)	546.8	N.A.	13.1
FVH - Front-Very High (80-90)	26.9	N.A.	0.6
BL - Back-Low (0-30)	515.3	N.A.	12.3
BM - Back-Medium (30-60)	627.5	N.A.	15.0
BH - Back-High (60-80)	114.2	N.A.	2.7
BVH - Back-Very High (80-90)	5.8	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4186.0	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	1556	1556	1556	1556	1556	1556	1556	1556	1556	1556
2.5	1563	1564	1567	1570	1573	1578	1581	1582	1580	1582
5.0	1625	1625	1626	1625	1622	1621	1614	1607	1596	1587
7.5	1696	1696	1695	1690	1684	1672	1653	1630	1603	1584
10.0	1745	1746	1749	1749	1735	1715	1681	1643	1606	1580
12.5	1749	1750	1766	1771	1764	1741	1713	1671	1619	1578
15.0	1765	1766	1773	1775	1759	1757	1744	1700	1631	1579
17.5	1826	1824	1826	1804	1769	1764	1761	1715	1640	1570
20.0	1871	1873	1871	1844	1804	1767	1753	1719	1643	1556
22.5	1891	1892	1890	1867	1846	1790	1737	1710	1640	1542
25.0	1903	1901	1895	1873	1866	1813	1740	1694	1628	1516
27.5	1911	1912	1909	1870	1864	1817	1746	1668	1611	1487
30.0	1892	1899	1899	1878	1849	1805	1740	1641	1579	1456
32.5	1882	1883	1875	1859	1829	1783	1718	1617	1541	1415
35.0	1880	1882	1865	1835	1794	1750	1685	1585	1492	1366
37.5	1872	1877	1852	1817	1755	1707	1638	1544	1428	1308
40.0	1836	1836	1817	1794	1725	1655	1586	1495	1367	1241
42.5	1780	1778	1761	1741	1684	1604	1524	1430	1298	1177
45.0	1718	1716	1693	1674	1637	1548	1461	1356	1226	1098
47.5	1656	1650	1627	1598	1562	1486	1385	1277	1153	1020
50.0	1587	1583	1557	1520	1475	1409	1305	1187	1071	944
52.5	1500	1502	1476	1439	1381	1318	1218	1101	983	861
55.0	1403	1405	1382	1349	1287	1221	1119	1015	896	777
57.5	1295	1299	1282	1249	1193	1112	1024	919	805	696
60.0	1182	1179	1173	1138	1088	1005	924	825	717	614
62.5	1059	1059	1048	1016	969	899	819	731	629	531
65.0	931	931	920	889	851	790	716	637	545	455
67.5	799	799	785	765	727	678	615	545	463	380
70.0	667	660	656	640	608	569	515	456	382	314
72.5	539	531	528	516	490	457	420	367	310	252
75.0	403	408	407	398	380	354	319	287	242	195
77.5	288	293	294	288	275	260	235	208	179	144
80.0	184	189	191	188	182	171	159	141	119	99
82.5	91	91	94	100	98	97	92	83	71	58
85.0	17	18	21	22	31	36	39	37	32	27
87.5	1	0	1	1	1	1	3	5	5	5
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	90	95	105	115	125	135	145	155	165	175
0.0	1556	1556	1556	1556	1556	1556	1556	1556	1556	1556
2.5	1582	1578	1570	1562	1554	1545	1533	1520	1513	1508
5.0	1582	1573	1556	1538	1522	1504	1485	1467	1455	1447
7.5	1575	1560	1533	1506	1481	1456	1432	1406	1388	1380
10.0	1567	1550	1511	1467	1430	1399	1376	1352	1340	1333
12.5	1561	1544	1492	1437	1386	1353	1326	1304	1291	1278
15.0	1557	1530	1467	1403	1356	1320	1281	1247	1227	1217
17.5	1540	1507	1432	1368	1321	1270	1220	1182	1152	1145
20.0	1523	1489	1405	1332	1278	1216	1156	1103	1071	1064
22.5	1503	1463	1362	1291	1224	1156	1082	1034	1006	992
25.0	1474	1428	1317	1245	1166	1081	1015	969	932	918
27.5	1441	1387	1273	1192	1103	1013	951	895	858	839

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CANDELA TABULATION - (Cont.)

30.0	1401	1344	1227	1136	1032	947	877	820	781	763
32.5	1354	1289	1167	1072	959	874	801	747	705	684
35.0	1296	1231	1107	997	885	796	726	671	628	604
37.5	1235	1165	1041	925	815	721	653	594	546	523
40.0	1169	1096	976	853	742	648	573	513	469	448
42.5	1094	1025	904	778	667	577	498	435	399	379
45.0	1021	951	831	704	596	506	422	369	338	324
47.5	946	870	750	631	527	433	359	313	286	273
50.0	866	794	675	561	462	369	302	263	237	223
52.5	788	717	602	490	395	310	253	217	193	180
55.0	706	641	531	424	336	259	208	176	155	145
57.5	629	567	462	365	281	214	171	142	126	116
60.0	554	493	397	312	233	173	138	115	100	93
62.5	481	426	338	262	191	141	112	92	81	77
65.0	407	362	285	217	155	114	89	73	66	62
67.5	339	303	237	176	123	91	70	59	53	51
70.0	279	247	193	141	97	71	55	47	43	42
72.5	224	197	151	109	75	55	42	37	35	34
75.0	173	152	116	79	55	41	32	28	28	28
77.5	128	112	83	56	39	28	23	21	21	21
80.0	87	77	56	36	25	18	15	15	15	15
82.5	53	45	32	21	14	10	9	9	9	9
85.0	23	21	14	9	5	4	4	4	5	5
87.5	5	4	3	2	1	1	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

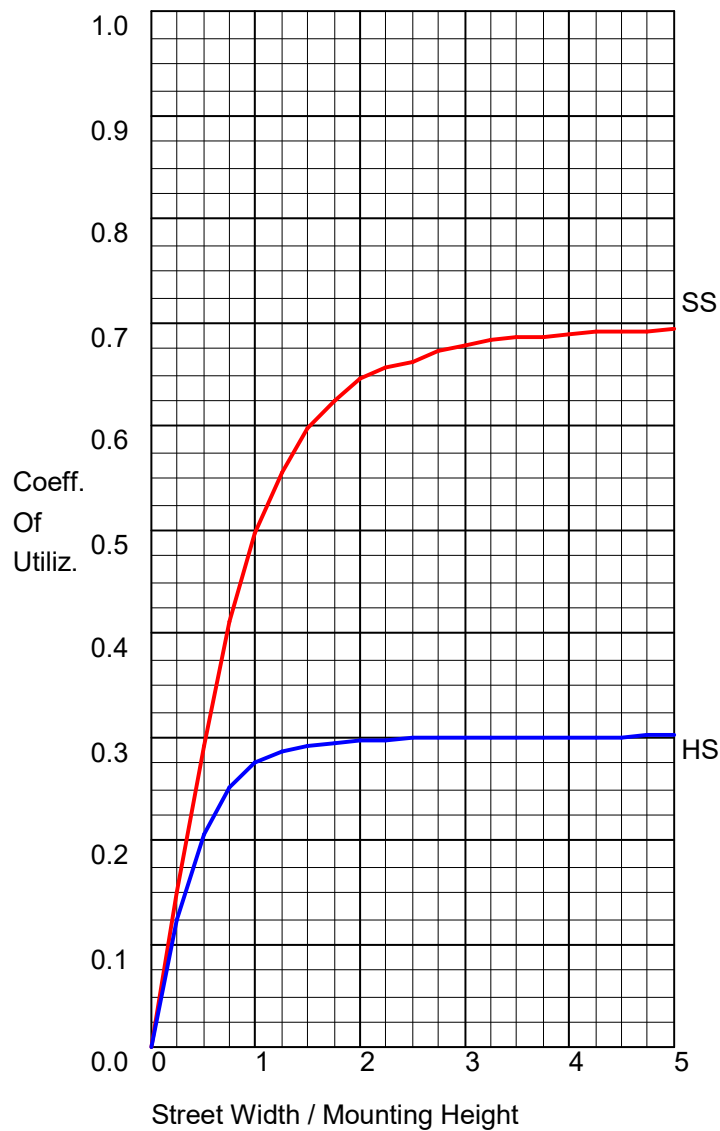
	180
0.0	1556
2.5	1508
5.0	1445
7.5	1378
10.0	1330
12.5	1276
15.0	1216
17.5	1145
20.0	1061
22.5	995
25.0	922
27.5	836
30.0	762
32.5	681
35.0	603
37.5	521
40.0	445
42.5	378
45.0	321
47.5	271
50.0	224
52.5	181
55.0	142
57.5	115
60.0	92
62.5	75
65.0	62

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CANDELA TABULATION - (Cont.)

67.5	51
70.0	42
72.5	34
75.0	27
77.5	21
80.0	15
82.5	10
85.0	5
87.5	0
90.0	0

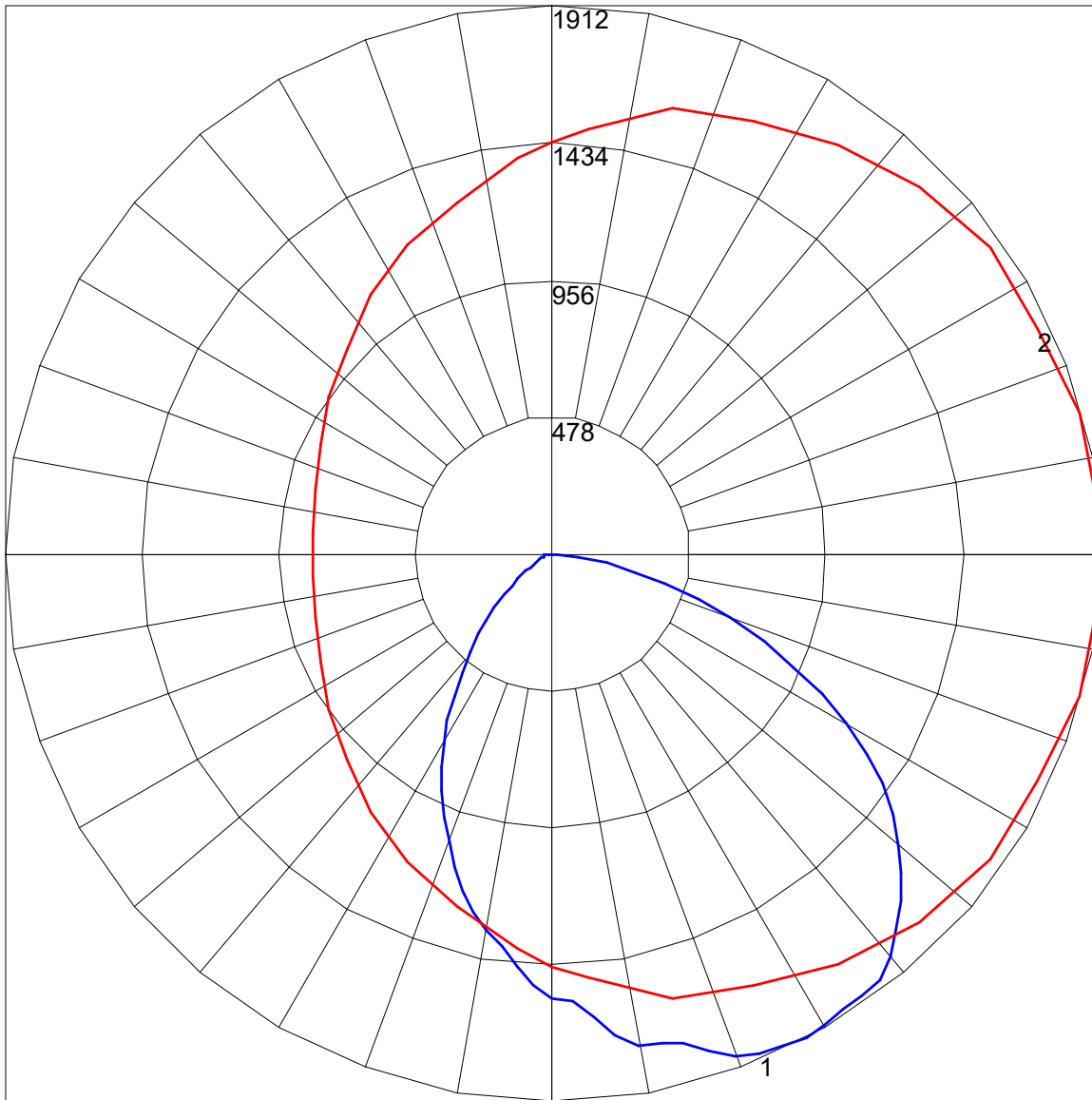
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

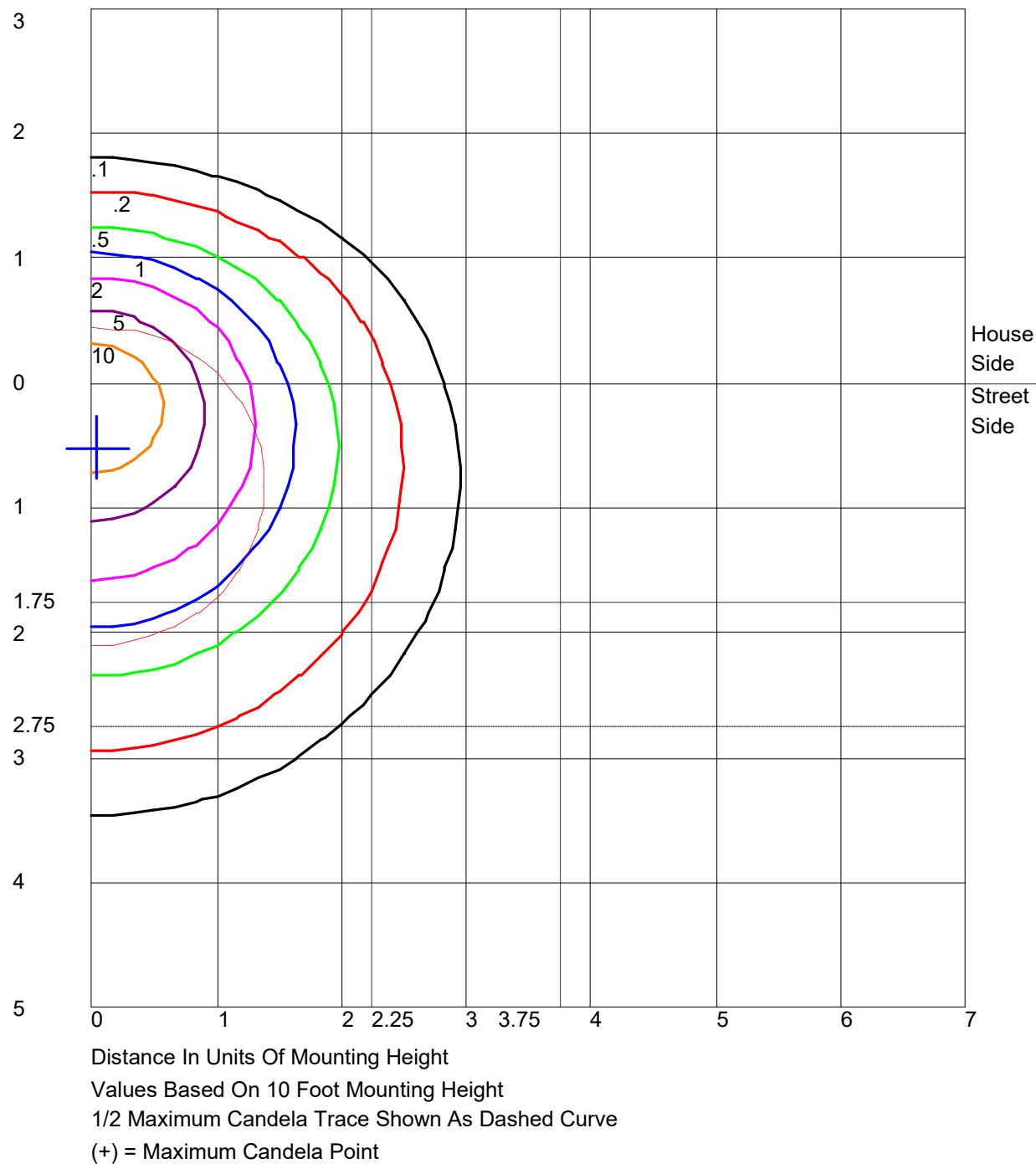
	Lumens	Percent Of Luminaire
Downward Street Side	2923.2	69.8
Downward House Side	1262.8	30.2
Downward Total	4186.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4186.0	100.0

POLAR GRAPH

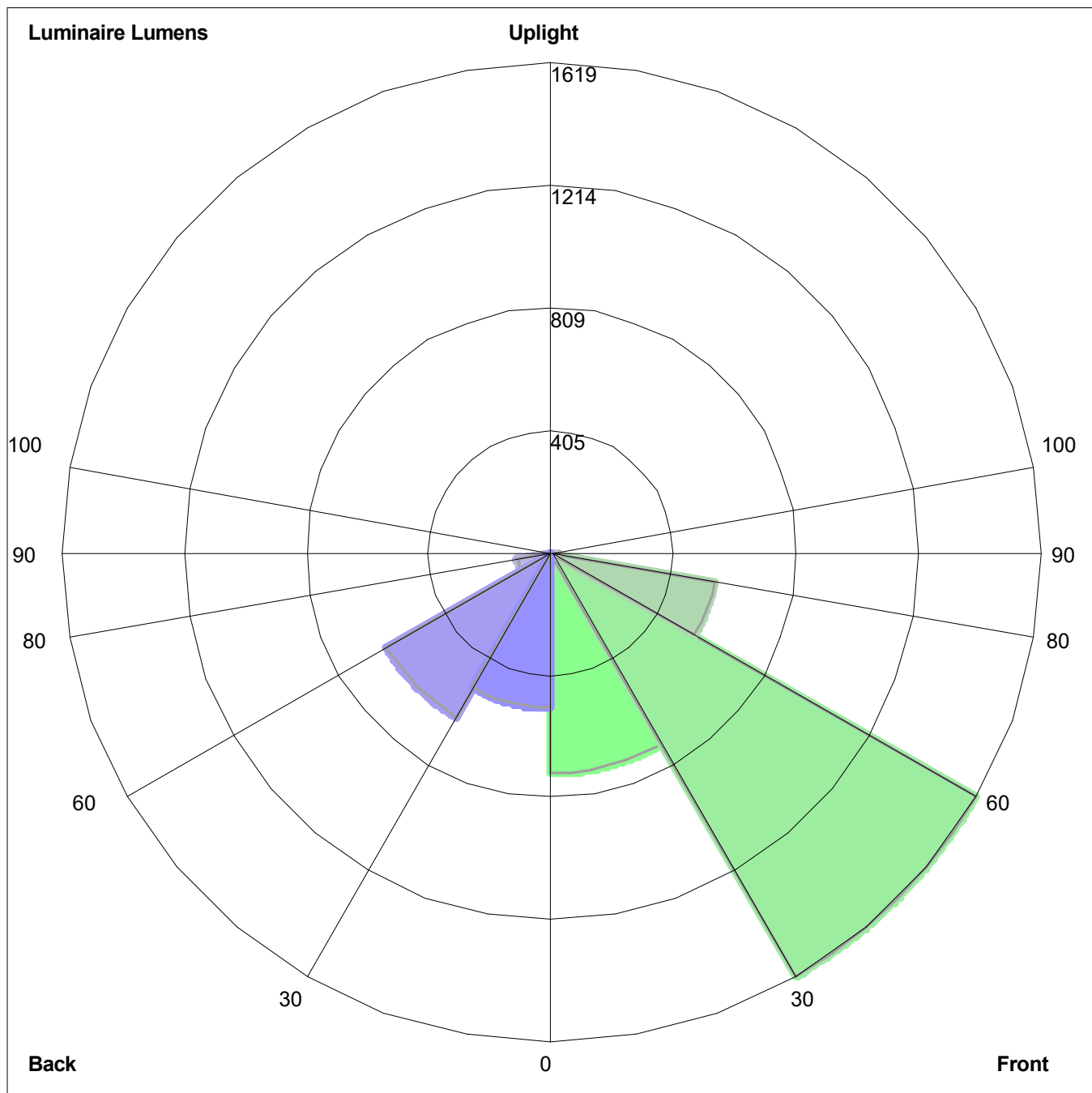


Maximum Candela = 1912 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=730.9, Medium=1618.6, High=546.8, Very High=26.9
Back: Low=515.3, Medium=627.5, High=114.2, Very High=5.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1