



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSR-04L-FT-50.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] GSR-04L-FT-50
[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] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4198
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	1918
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	1918
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	192 (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)	733.1	N.A.	17.5
FM - Front-Medium (30-60)	1623.5	N.A.	38.7
FH - Front-High (60-80)	548.4	N.A.	13.1
FVH - Front-Very High (80-90)	27.0	N.A.	0.6
BL - Back-Low (0-30)	516.9	N.A.	12.3
BM - Back-Medium (30-60)	629.4	N.A.	15.0
BH - Back-High (60-80)	114.4	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	4198.5	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	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
2.5	1568	1569	1572	1575	1578	1583	1586	1587	1585	1587
5.0	1630	1630	1631	1630	1627	1626	1619	1612	1601	1592
7.5	1701	1701	1700	1695	1689	1677	1658	1635	1608	1589
10.0	1750	1751	1754	1754	1740	1720	1686	1648	1611	1585
12.5	1754	1755	1771	1776	1769	1746	1718	1676	1624	1583
15.0	1770	1771	1778	1780	1764	1762	1749	1705	1636	1584
17.5	1831	1829	1831	1809	1774	1769	1766	1720	1645	1575
20.0	1877	1879	1877	1850	1809	1772	1758	1724	1648	1561
22.5	1897	1898	1896	1873	1852	1795	1742	1715	1645	1547
25.0	1909	1907	1901	1879	1872	1818	1745	1699	1633	1521
27.5	1917	1918	1915	1876	1870	1822	1751	1673	1616	1491
30.0	1898	1905	1905	1884	1855	1810	1745	1646	1584	1460
32.5	1888	1889	1881	1865	1834	1788	1723	1622	1546	1419
35.0	1886	1888	1871	1841	1799	1755	1690	1590	1496	1370
37.5	1878	1883	1858	1822	1760	1712	1643	1549	1432	1312
40.0	1842	1842	1822	1799	1730	1660	1591	1499	1371	1245
42.5	1785	1783	1766	1746	1689	1609	1529	1434	1302	1181
45.0	1723	1721	1698	1679	1642	1553	1465	1360	1230	1101
47.5	1661	1655	1632	1603	1567	1490	1389	1281	1156	1023
50.0	1592	1588	1562	1525	1479	1413	1309	1191	1074	947
52.5	1505	1507	1480	1443	1385	1322	1222	1104	986	864
55.0	1407	1409	1386	1353	1291	1225	1122	1018	899	779
57.5	1299	1303	1286	1253	1197	1115	1027	922	807	698
60.0	1186	1183	1177	1141	1091	1008	927	827	719	616
62.5	1062	1062	1051	1019	972	902	821	733	631	533
65.0	934	934	923	892	854	792	718	639	547	456
67.5	801	801	787	767	729	680	617	547	464	381
70.0	669	662	658	642	610	571	517	457	383	315
72.5	541	533	530	518	491	458	421	368	311	253
75.0	404	409	408	399	381	355	320	288	243	196
77.5	289	294	295	289	276	261	236	209	180	144
80.0	185	190	192	189	183	172	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	1561	1561	1561	1561	1561	1561	1561	1561	1561	1561
2.5	1587	1583	1575	1567	1559	1550	1538	1525	1518	1513
5.0	1587	1578	1561	1543	1527	1509	1489	1471	1459	1451
7.5	1580	1565	1538	1511	1485	1460	1436	1410	1392	1384
10.0	1572	1555	1516	1471	1434	1403	1380	1356	1344	1337
12.5	1566	1549	1496	1441	1390	1357	1330	1308	1295	1282
15.0	1562	1535	1471	1407	1360	1324	1285	1251	1231	1221
17.5	1545	1512	1436	1372	1325	1274	1224	1186	1155	1148
20.0	1528	1493	1409	1336	1282	1220	1159	1106	1074	1067
22.5	1508	1467	1366	1295	1228	1159	1085	1037	1009	995
25.0	1478	1432	1321	1249	1169	1084	1018	972	935	921
27.5	1445	1391	1277	1196	1106	1016	954	898	861	842

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CANDELA TABULATION - (Cont.)

30.0	1405	1348	1231	1139	1035	950	880	822	783	765
32.5	1358	1293	1171	1075	962	877	803	749	707	686
35.0	1300	1235	1110	1000	888	798	728	673	630	606
37.5	1239	1168	1044	928	817	723	655	596	548	525
40.0	1173	1099	979	856	744	650	575	515	470	449
42.5	1097	1028	907	780	669	579	499	436	400	380
45.0	1024	954	833	706	598	508	423	370	339	325
47.5	949	873	752	633	529	434	360	314	287	274
50.0	869	796	677	563	463	370	303	264	238	224
52.5	790	719	604	491	396	311	254	218	194	181
55.0	708	643	533	425	337	260	209	177	155	145
57.5	631	569	463	366	282	215	172	142	126	116
60.0	556	494	398	313	234	174	138	115	100	93
62.5	482	427	339	263	192	141	112	92	81	77
65.0	408	363	286	218	155	114	89	73	66	62
67.5	340	304	238	177	123	91	70	59	53	51
70.0	280	248	194	141	97	71	55	47	43	42
72.5	225	198	151	109	75	55	42	37	35	34
75.0	174	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

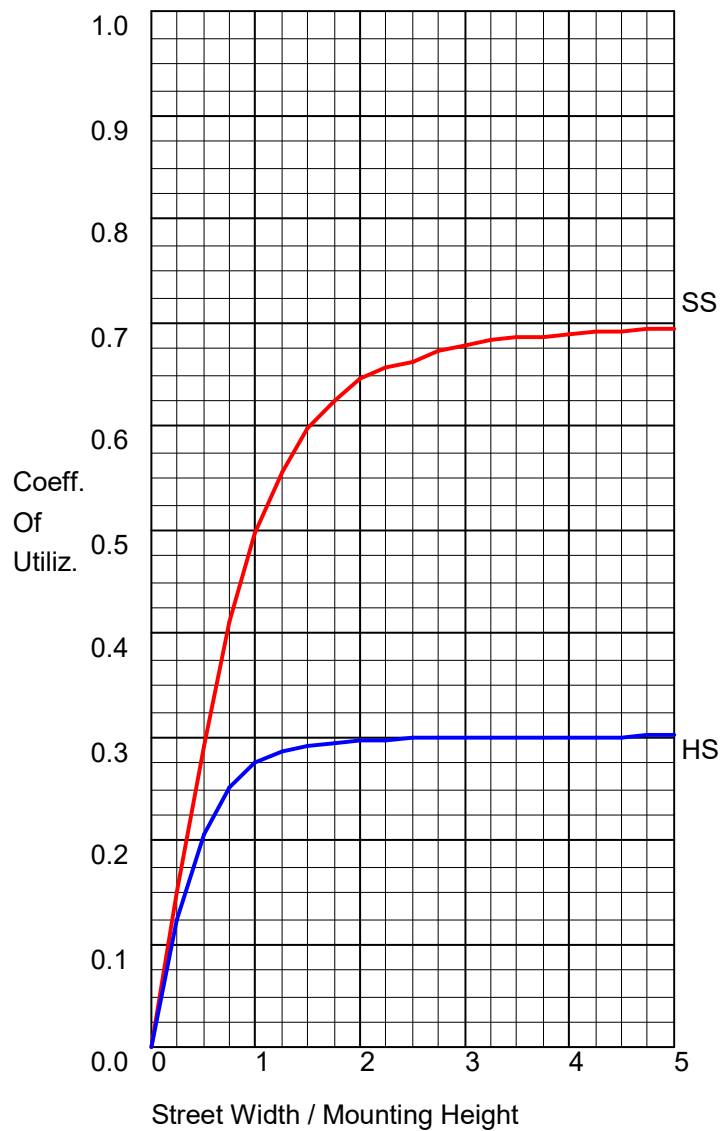
	180
0.0	1561
2.5	1513
5.0	1449
7.5	1382
10.0	1334
12.5	1280
15.0	1220
17.5	1148
20.0	1064
22.5	998
25.0	925
27.5	839
30.0	764
32.5	683
35.0	605
37.5	523
40.0	446
42.5	379
45.0	322
47.5	272
50.0	225
52.5	182
55.0	142
57.5	115
60.0	92
62.5	75
65.0	62

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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

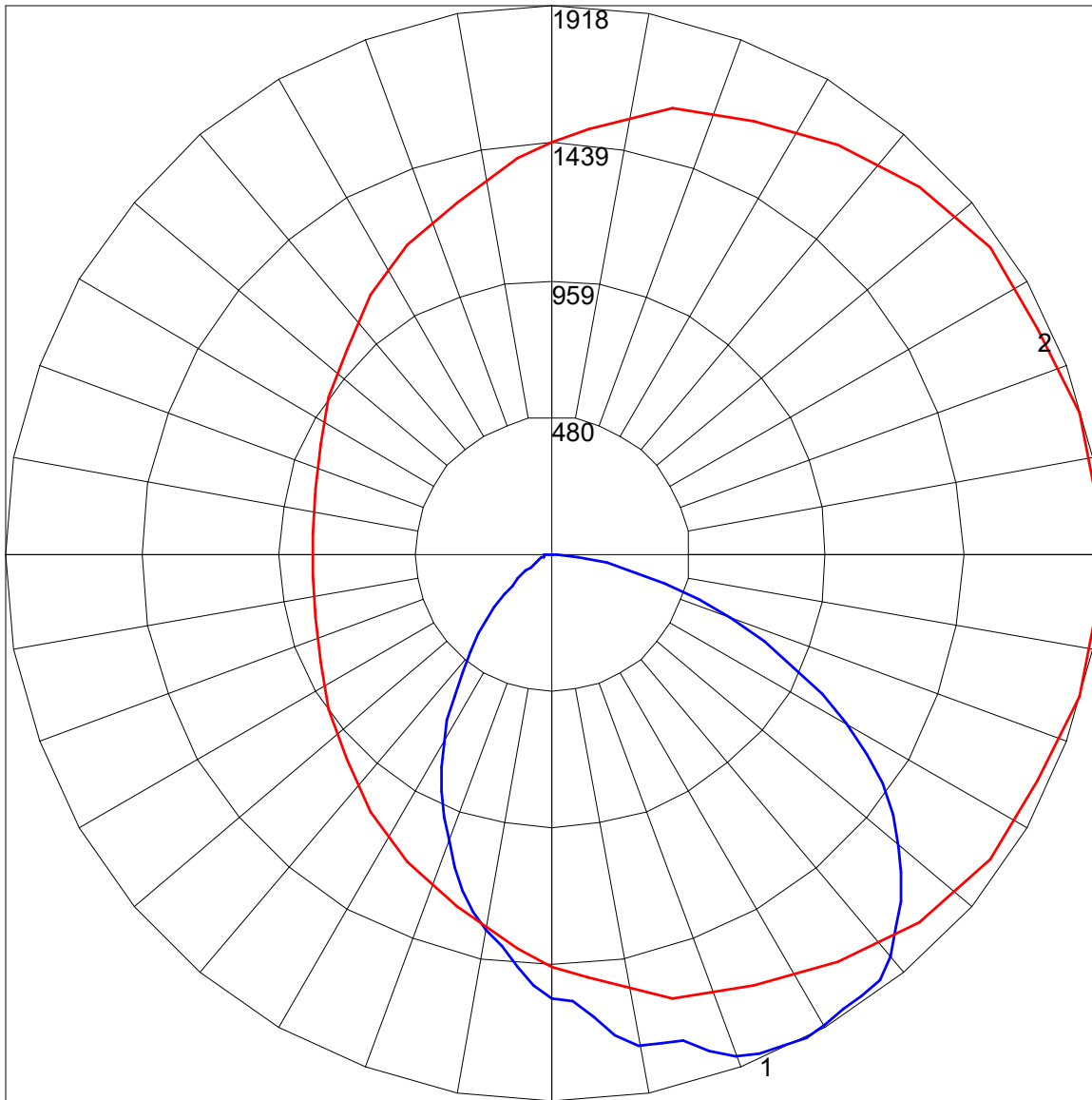
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

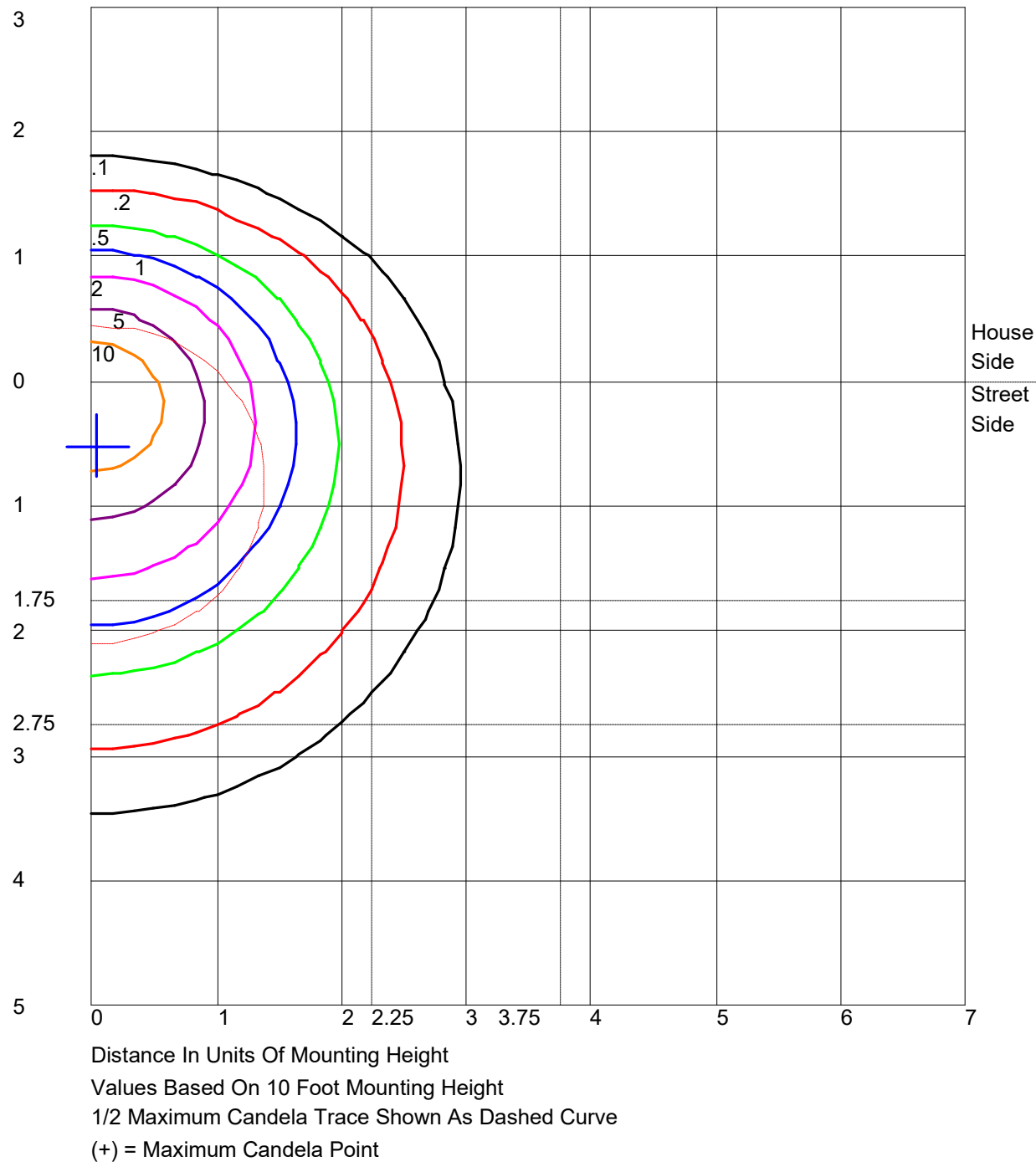
	Lumens	Percent Of Luminaire
Downward Street Side	2932.0	69.8
Downward House Side	1266.4	30.2
Downward Total	4198.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4198.4	100.0

POLAR GRAPH

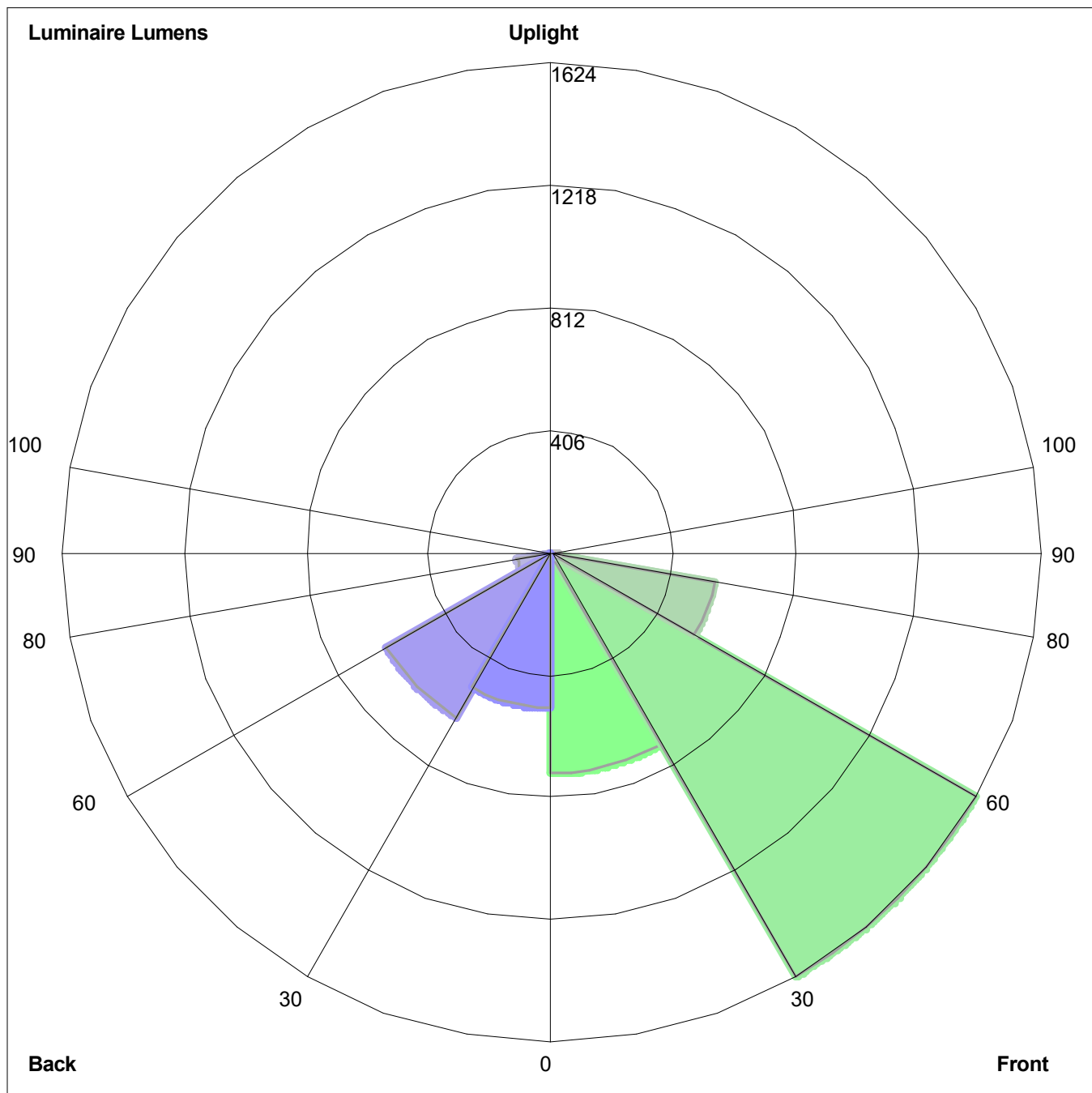


Maximum Candela = 1918 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=733.1, Medium=1623.5, High=548.4, Very High=27.0
Back: Low=516.9, Medium=629.4, High=114.4, Very High=5.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1