



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SMW-LED-06L-3-UNV-DIM-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11649

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 5/7/2020

[TEST DATE] 03/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SMW-LED-06L-3-UNV-DIM-50

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

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

[OTHER] SCALED FROM ORIGINAL TEST DATA

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6083
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	47
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2955
Maximum Candela Angle	57.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	2955
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1500 (24.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	581.2	N.A.	9.6
FM - Front-Medium (30-60)	1765.6	N.A.	29.0
FH - Front-High (60-80)	1206.5	N.A.	19.8
FVH - Front-Very High (80-90)	73.1	N.A.	1.2
BL - Back-Low (0-30)	533.4	N.A.	8.8
BM - Back-Medium (30-60)	1266.7	N.A.	20.8
BH - Back-High (60-80)	630.9	N.A.	10.4
BVH - Back-Very High (80-90)	25.5	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	6082.9	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298
2.5	1271	1272	1284	1289	1300	1309	1312	1314	1322	1326
5.0	1285	1286	1297	1302	1311	1320	1320	1322	1329	1331
7.5	1299	1300	1311	1316	1324	1330	1330	1331	1336	1337
10.0	1314	1316	1325	1331	1336	1342	1340	1340	1343	1343
12.5	1329	1330	1340	1345	1348	1354	1350	1351	1353	1349
15.0	1343	1345	1354	1359	1362	1366	1360	1361	1362	1358
17.5	1357	1358	1368	1371	1375	1378	1373	1374	1373	1368
20.0	1367	1369	1379	1382	1387	1393	1387	1387	1387	1381
22.5	1376	1376	1387	1392	1398	1405	1401	1402	1403	1396
25.0	1378	1379	1392	1399	1408	1420	1418	1420	1422	1414
27.5	1376	1378	1393	1404	1416	1435	1438	1440	1443	1435
30.0	1373	1375	1392	1405	1425	1449	1458	1461	1468	1459
32.5	1368	1370	1389	1407	1433	1464	1481	1486	1494	1486
35.0	1360	1363	1386	1408	1442	1484	1506	1514	1524	1516
37.5	1354	1356	1382	1410	1453	1504	1537	1546	1560	1552
40.0	1345	1348	1376	1411	1464	1529	1574	1585	1600	1592
42.5	1336	1338	1370	1412	1477	1558	1616	1628	1646	1636
45.0	1316	1318	1357	1409	1489	1587	1662	1678	1700	1684
47.5	1286	1287	1331	1401	1498	1617	1710	1730	1757	1741
50.0	1235	1240	1292	1382	1506	1644	1761	1785	1817	1799
52.5	1175	1181	1240	1352	1511	1672	1802	1831	1877	1859
55.0	1114	1117	1183	1312	1514	1701	1830	1860	1926	1922
57.5	1045	1049	1118	1264	1512	1734	1837	1864	1947	1988
60.0	947	952	1016	1184	1497	1783	1833	1847	1932	2051
62.5	818	822	877	1035	1422	1872	1860	1845	1886	2093
65.0	687	690	733	839	1221	1969	1992	1917	1825	2099
67.5	487	479	549	663	882	1865	2283	2125	1748	2052
70.0	312	309	337	444	608	1430	2731	2570	1690	1906
72.5	162	170	201	300	402	1004	2946	2955	1654	1582
75.0	109	109	126	176	262	667	2233	2477	1432	1093
77.5	75	76	84	111	168	418	1158	1217	1281	637
80.0	53	54	60	76	115	249	499	535	1197	403
82.5	34	32	30	36	68	153	240	300	774	196
85.0	7	7	7	9	17	49	131	203	383	74
87.5	1	1	1	1	1	1	13	35	80	24
90.0	0	0	0	0	0	0	0	0	0	0

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	1298	1298	1298	1298	1298	1298	1298	1298	1298	1298
2.5	1331	1323	1326	1324	1319	1306	1299	1290	1280	1268
5.0	1334	1326	1328	1323	1317	1303	1294	1285	1275	1261
7.5	1337	1328	1328	1323	1315	1300	1290	1280	1269	1257
10.0	1342	1331	1330	1322	1313	1297	1287	1277	1265	1252
12.5	1345	1334	1333	1323	1312	1295	1284	1273	1261	1248
15.0	1351	1339	1337	1324	1312	1294	1281	1269	1255	1242
17.5	1359	1345	1340	1327	1314	1293	1278	1263	1248	1232
20.0	1369	1354	1347	1332	1316	1292	1274	1256	1236	1217
22.5	1382	1364	1356	1339	1320	1292	1269	1244	1218	1194
25.0	1398	1378	1368	1348	1325	1291	1260	1226	1192	1163
27.5	1415	1395	1384	1359	1331	1288	1248	1202	1160	1126

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**CANDELA TABULATION - (Cont.)**

30.0	1436	1413	1401	1371	1336	1283	1229	1171	1122	1083
32.5	1460	1435	1419	1383	1340	1272	1204	1135	1080	1040
35.0	1487	1460	1439	1396	1342	1256	1173	1095	1038	996
37.5	1520	1487	1464	1411	1341	1234	1135	1053	998	958
40.0	1554	1519	1489	1426	1337	1207	1097	1014	961	925
42.5	1596	1554	1518	1443	1329	1176	1060	980	929	897
45.0	1639	1591	1550	1457	1315	1142	1021	947	902	871
47.5	1683	1630	1582	1470	1294	1103	988	919	875	843
50.0	1731	1669	1613	1477	1266	1065	956	891	847	815
52.5	1783	1712	1645	1474	1222	1021	922	860	817	784
55.0	1843	1762	1679	1458	1165	969	884	829	784	755
57.5	1917	1824	1716	1424	1101	907	834	791	752	729
60.0	2017	1904	1762	1383	1034	843	777	747	721	702
62.5	2153	2022	1822	1343	962	770	711	701	679	668
65.0	2293	2152	1903	1295	873	693	637	641	631	624
67.5	2395	2265	1965	1209	768	623	563	572	552	424
70.0	2334	2222	1903	1061	657	537	497	462	367	230
72.5	1967	1813	1572	875	524	427	403	308	212	162
75.0	1743	1436	1102	647	411	327	250	204	151	85
77.5	2039	1577	814	399	303	197	174	134	86	53
80.0	1500	1128	495	241	188	112	127	87	43	35
82.5	447	306	211	145	64	54	62	35	21	18
85.0	112	98	85	49	30	24	18	9	4	2
87.5	30	27	28	12	6	3	1	1	1	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

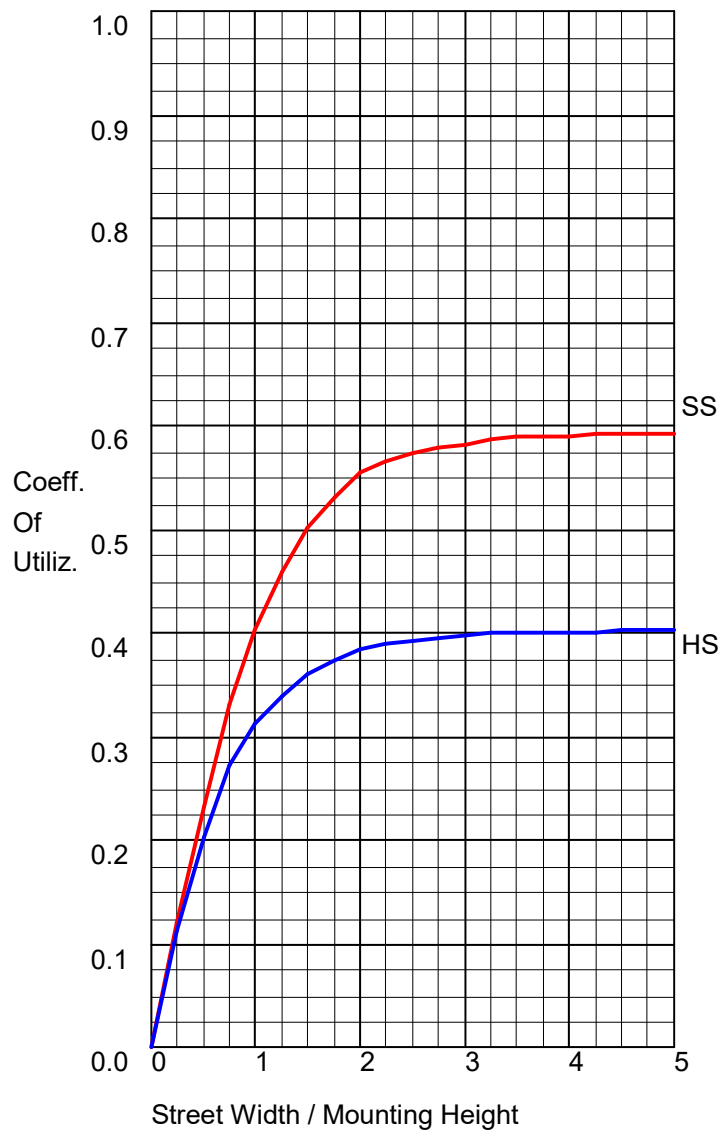
	<u>175.0</u>	<u>180.0</u>
0.0	1298	1298
2.5	1251	1261
5.0	1245	1254
7.5	1241	1248
10.0	1237	1244
12.5	1232	1238
15.0	1226	1232
17.5	1216	1220
20.0	1199	1203
22.5	1174	1178
25.0	1141	1141
27.5	1100	1100
30.0	1057	1055
32.5	1013	1010
35.0	972	969
37.5	936	932
40.0	905	902
42.5	877	876
45.0	851	850
47.5	825	825
50.0	795	797
52.5	763	764
55.0	735	738
57.5	714	715
60.0	693	692
62.5	662	660
65.0	600	591

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	363	352
<b>70.0</b>	202	199
<b>72.5</b>	146	146
<b>75.0</b>	75	75
<b>77.5</b>	50	51
<b>80.0</b>	33	33
<b>82.5</b>	16	17
<b>85.0</b>	2	2
<b>87.5</b>	0	0
<b>90.0</b>	0	0

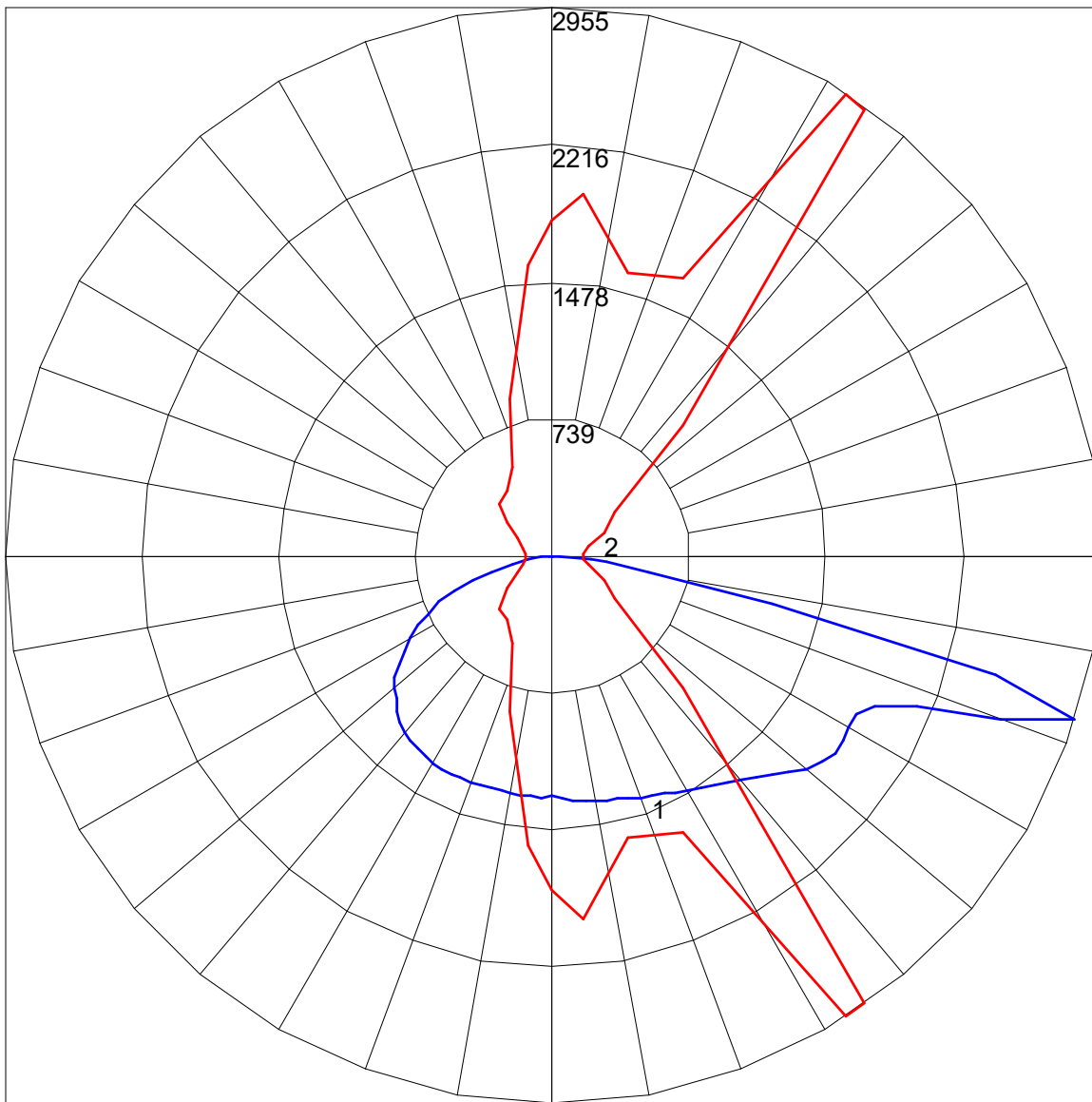
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

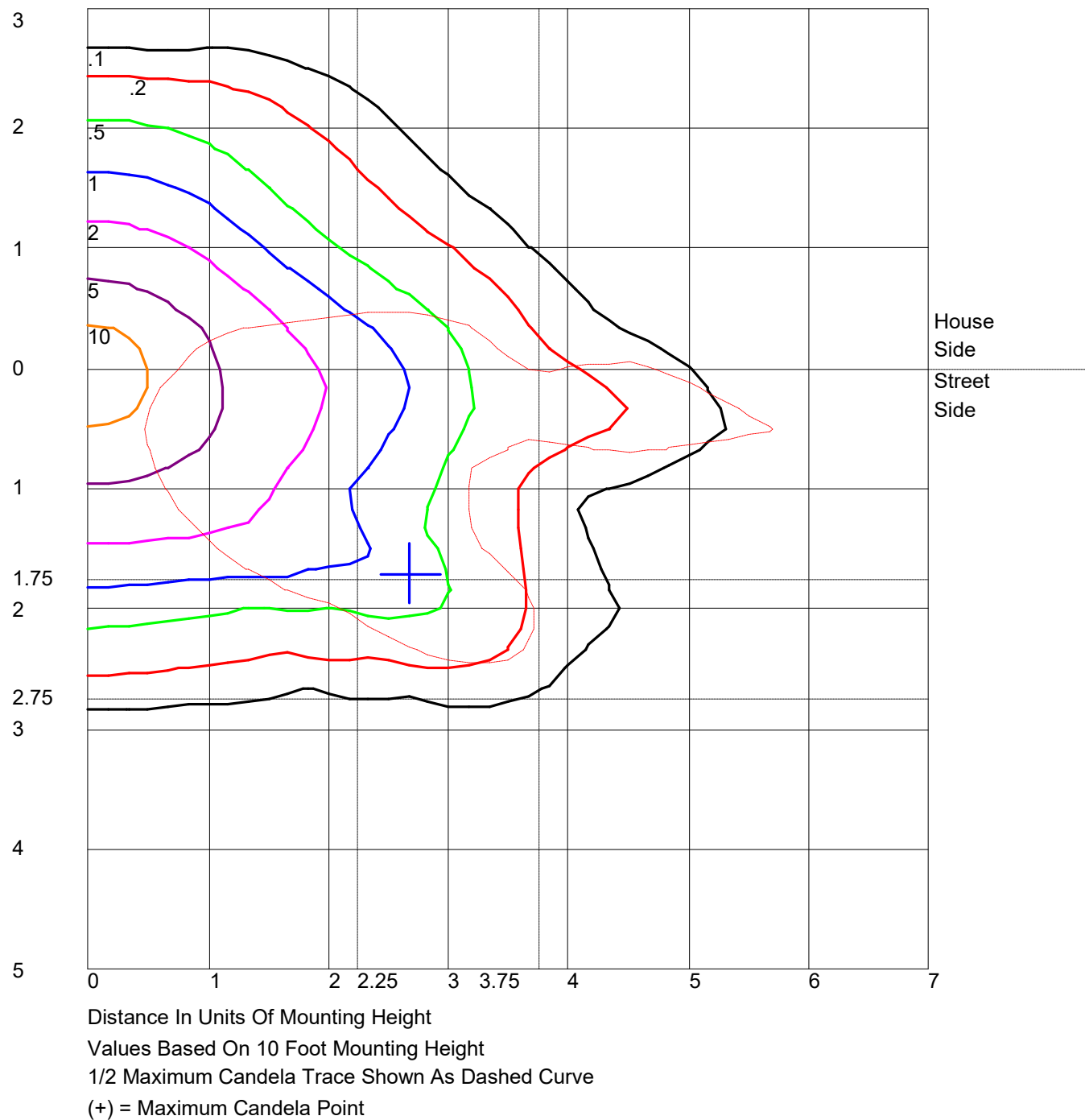
	Lumens	Percent Of Luminaire
Downward Street Side	3626.4	59.6
Downward House Side	2456.4	40.4
Downward Total	6082.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6082.8	100.0

POLAR GRAPH



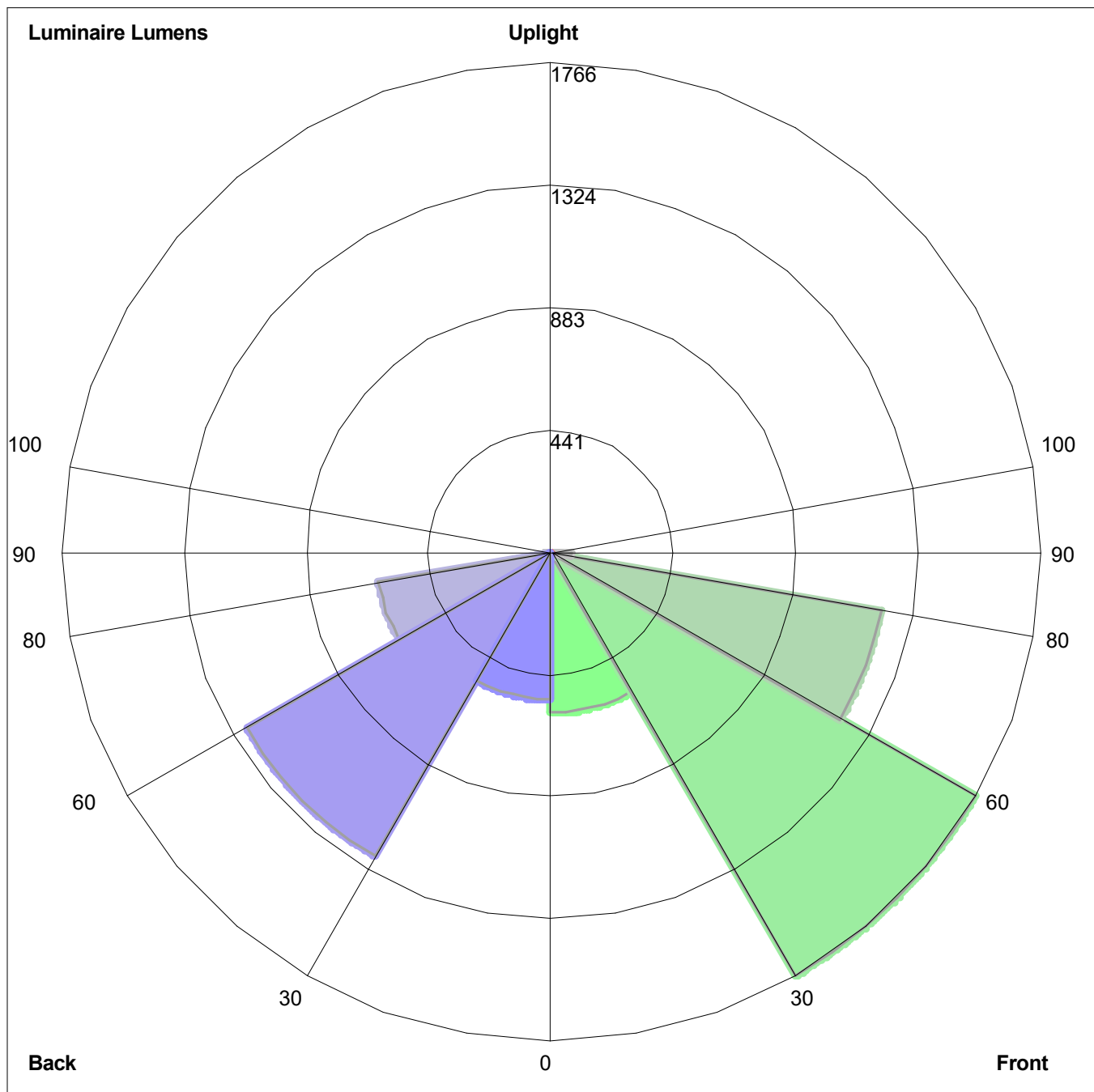
Maximum Candela = 2955 Located At Horizontal Angle = 57.5, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=581.2, Medium=1765.6, High=1206.5, Very High=73.1  
Back: Low=533.4, Medium=1266.7, High=630.9, Very High=25.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2