



IES ROAD REPORT

PHOTOMETRIC FILENAME : TLWP-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3755_scaled
[TESTLAB] TUV SUD America
[ISSUE DATE] 2/20/2020
[TEST DATE] 8/21/2019 10:36:42 AM
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] TLWP-LED-05L-50
[OTHER] TEST PROCEDURE: IESNA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5053
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.22
Maximum Candela	1624
Maximum Candela Angle	360H 52.5V
Maximum Candela (<90 Degrees Vertical)	1624
Maximum Candela Angle (<90 Degrees Vertical)	360H 52.5V
Maximum Candela At 90 Degrees Vertical	1255 (24.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1423 (28.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	449.7	N.A.	8.9
FM - Front-Medium (30-60)	1329.8	N.A.	26.3
FH - Front-High (60-80)	1039.1	N.A.	20.6
FVH - Front-Very High (80-90)	451.6	N.A.	8.9
BL - Back-Low (0-30)	242.8	N.A.	4.8
BM - Back-Medium (30-60)	319.2	N.A.	6.3
BH - Back-High (60-80)	85.7	N.A.	1.7
BVH - Back-Very High (80-90)	16.7	N.A.	0.3
UL - Uplight-Low (90-100)	381.9	N.A.	7.6
UH - Uplight-High (100-180)	736.5	N.A.	14.6
Total	5053.0	N.A.	100.0
BUG Rating	B1-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	862	862	862	862	862	862	862	862	862	862
2.5	934	911	899	880	859	836	817	805	818	805
5.0	989	961	936	899	855	810	774	751	759	751
7.5	1041	1008	971	915	849	784	733	703	704	703
10.0	1090	1053	1002	929	842	756	693	655	650	655
12.5	1136	1093	1031	940	832	727	654	612	606	612
15.0	1185	1132	1057	949	820	700	617	569	562	569
17.5	1233	1174	1079	954	806	670	580	526	517	526
20.0	1278	1215	1100	957	790	640	544	485	471	485
22.5	1321	1254	1125	957	773	610	509	443	424	443
25.0	1362	1289	1146	956	754	581	474	400	376	400
27.5	1397	1321	1165	952	734	552	440	358	336	358
30.0	1424	1347	1182	946	714	523	406	321	301	321
32.5	1455	1368	1195	940	692	494	372	290	274	290
35.0	1482	1391	1206	936	670	465	338	262	250	262
37.5	1500	1413	1213	932	648	438	306	239	227	239
40.0	1525	1426	1217	926	626	411	277	219	209	219
42.5	1561	1443	1222	919	603	383	250	202	190	202
45.0	1578	1466	1226	910	579	357	226	184	173	184
47.5	1584	1479	1227	901	555	330	205	165	157	165
50.0	1599	1481	1226	891	529	304	186	147	140	147
52.5	1624	1488	1225	879	502	278	168	128	121	128
55.0	1623	1496	1218	864	474	253	151	109	101	109
57.5	1600	1488	1207	847	446	229	133	89	80	89
60.0	1576	1463	1191	828	416	205	115	68	57	68
62.5	1556	1435	1169	808	386	183	96	47	37	47
65.0	1539	1410	1140	785	355	161	77	25	16	25
67.5	1525	1389	1107	758	324	141	59	6	0	6
70.0	1513	1370	1075	726	292	121	40	0	0	0
72.5	1499	1352	1043	692	258	103	26	0	0	0
75.0	1481	1331	1013	656	224	86	21	0	0	0
77.5	1456	1306	983	620	190	71	19	0	0	0
80.0	1423	1275	950	582	158	61	17	0	0	0
82.5	1385	1240	915	543	131	55	16	0	0	0
85.0	1344	1202	878	506	108	51	14	0	0	0
87.5	1301	1162	842	469	92	48	13	0	0	0
90.0	1255	1118	802	434	83	46	12	0	0	0
92.5	1201	1069	762	401	78	43	11	0	0	0
95.0	1140	1016	719	370	74	41	10	0	0	0
97.5	1077	961	676	343	70	38	9	0	0	0
100.0	1014	905	633	317	67	36	8	0	0	0
102.5	956	848	592	292	63	34	8	0	0	0
105.0	894	794	551	267	60	32	7	0	0	0
107.5	830	738	513	245	57	29	6	0	0	0
110.0	767	684	474	225	54	27	5	0	0	0
112.5	705	630	436	207	50	25	4	0	0	0
115.0	646	578	401	190	47	23	3	0	0	0
117.5	590	529	367	175	43	21	2	0	0	0
120.0	537	482	336	161	40	19	2	0	0	0
122.5	488	439	307	148	35	18	2	0	0	0
125.0	442	399	281	135	29	16	1	0	0	0
127.5	399	363	256	122	23	14	1	0	0	0
130.0	361	329	235	110	17	12	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	325	299	214	99	15	11	0	0	0	0
135.0	295	271	195	90	13	9	0	1	1	1
137.5	267	246	177	83	11	8	0	0	1	0
140.0	239	222	164	75	10	6	0	1	1	1
142.5	215	202	151	67	8	5	1	1	1	1
145.0	201	188	142	59	7	4	1	1	1	1
147.5	186	175	133	48	5	3	1	1	1	1
150.0	181	168	122	30	4	2	1	1	1	1
152.5	169	156	108	14	3	1	1	1	1	1
155.0	149	137	91	6	2	1	1	1	1	1
157.5	125	115	72	4	2	1	1	1	1	1
160.0	100	93	50	2	1	1	1	1	1	1
162.5	77	69	21	1	1	1	1	1	1	1
165.0	49	40	3	1	1	1	1	1	1	1
167.5	9	8	1	1	1	1	1	1	1	1
170.0	0	1	0	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**

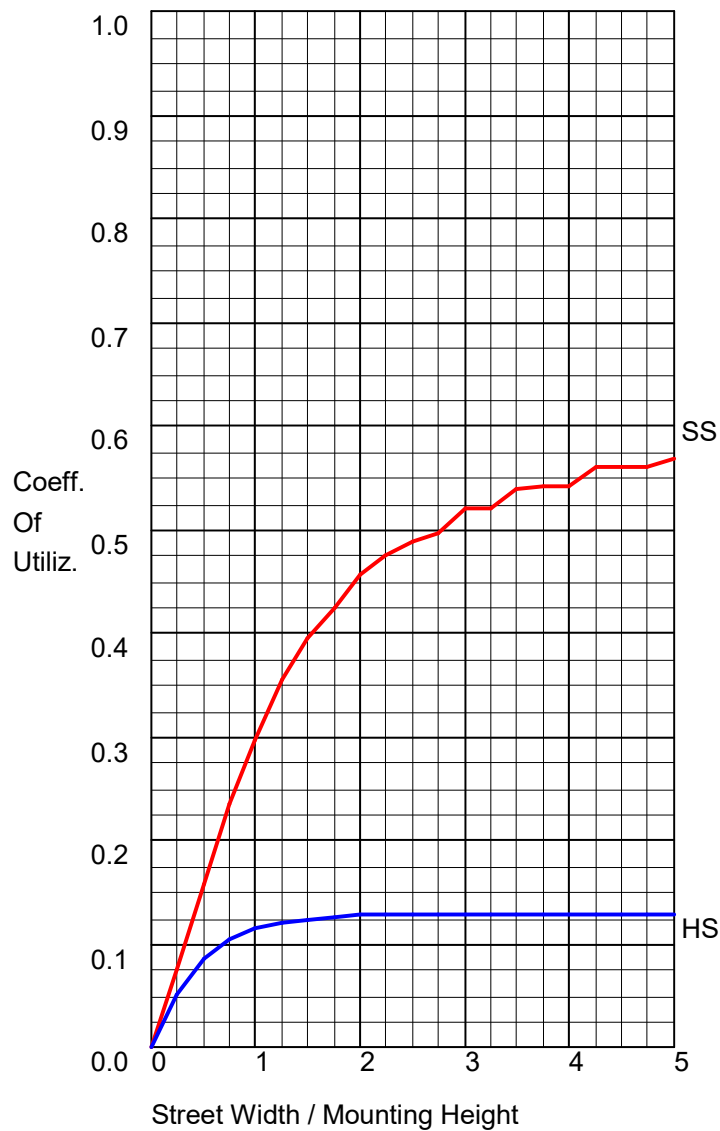
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	862	862	862	862	862	862	862
2.5	817	836	859	880	899	911	934
5.0	774	810	855	899	936	961	989
7.5	733	784	849	915	971	1008	1041
10.0	693	756	842	929	1002	1053	1090
12.5	654	727	832	940	1031	1093	1136
15.0	617	700	820	949	1057	1132	1185
17.5	580	670	806	954	1079	1174	1233
20.0	544	640	790	957	1100	1215	1278
22.5	509	610	773	957	1125	1254	1321
25.0	474	581	754	956	1146	1289	1362
27.5	440	552	734	952	1165	1321	1397
30.0	406	523	714	946	1182	1347	1424
32.5	372	494	692	940	1195	1368	1455
35.0	338	465	670	936	1206	1391	1482
37.5	306	438	648	932	1213	1413	1500
40.0	277	411	626	926	1217	1426	1525
42.5	250	383	603	919	1222	1443	1561
45.0	226	357	579	910	1226	1466	1578
47.5	205	330	555	901	1227	1479	1584
50.0	186	304	529	891	1226	1481	1599
52.5	168	278	502	879	1225	1488	1624
55.0	151	253	474	864	1218	1496	1623
57.5	133	229	446	847	1207	1488	1600
60.0	115	205	416	828	1191	1463	1576
62.5	96	183	386	808	1169	1435	1556
65.0	77	161	355	785	1140	1410	1539
67.5	59	141	324	758	1107	1389	1525
70.0	40	121	292	726	1075	1370	1513
72.5	26	103	258	692	1043	1352	1499
75.0	21	86	224	656	1013	1331	1481
77.5	19	71	190	620	983	1306	1456

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CANDELA TABULATION - (Cont.)

80.0	17	61	158	582	950	1275	1423
82.5	16	55	131	543	915	1240	1385
85.0	14	51	108	506	878	1202	1344
87.5	13	48	92	469	842	1162	1301
90.0	12	46	83	434	802	1118	1255
92.5	11	43	78	401	762	1069	1201
95.0	10	41	74	370	719	1016	1140
97.5	9	38	70	343	676	961	1077
100.0	8	36	67	317	633	905	1014
102.5	8	34	63	292	592	848	956
105.0	7	32	60	267	551	794	894
107.5	6	29	57	245	513	738	830
110.0	5	27	54	225	474	684	767
112.5	4	25	50	207	436	630	705
115.0	3	23	47	190	401	578	646
117.5	2	21	43	175	367	529	590
120.0	2	19	40	161	336	482	537
122.5	2	18	35	148	307	439	488
125.0	1	16	29	135	281	399	442
127.5	1	14	23	122	256	363	399
130.0	0	12	17	110	235	329	361
132.5	0	11	15	99	214	299	325
135.0	0	9	13	90	195	271	295
137.5	0	8	11	83	177	246	267
140.0	0	6	10	75	164	222	239
142.5	1	5	8	67	151	202	215
145.0	1	4	7	59	142	188	201
147.5	1	3	5	48	133	175	186
150.0	1	2	4	30	122	168	181
152.5	1	1	3	14	108	156	169
155.0	1	1	2	6	91	137	149
157.5	1	1	2	4	72	115	125
160.0	1	1	1	2	50	93	100
162.5	1	1	1	1	21	69	77
165.0	1	1	1	1	3	40	49
167.5	1	1	1	1	1	8	9
170.0	1	1	1	1	0	1	0
172.5	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1

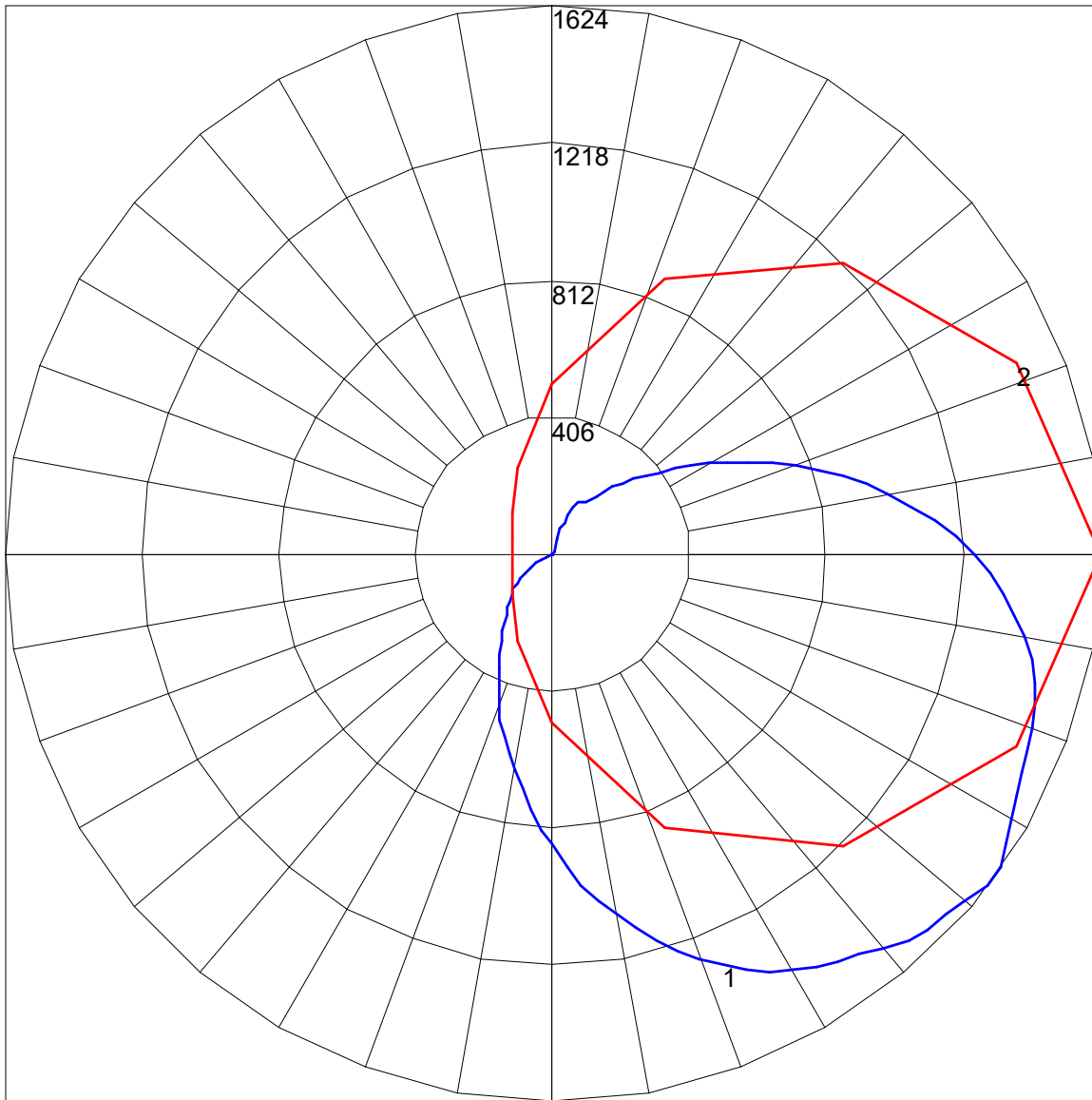
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

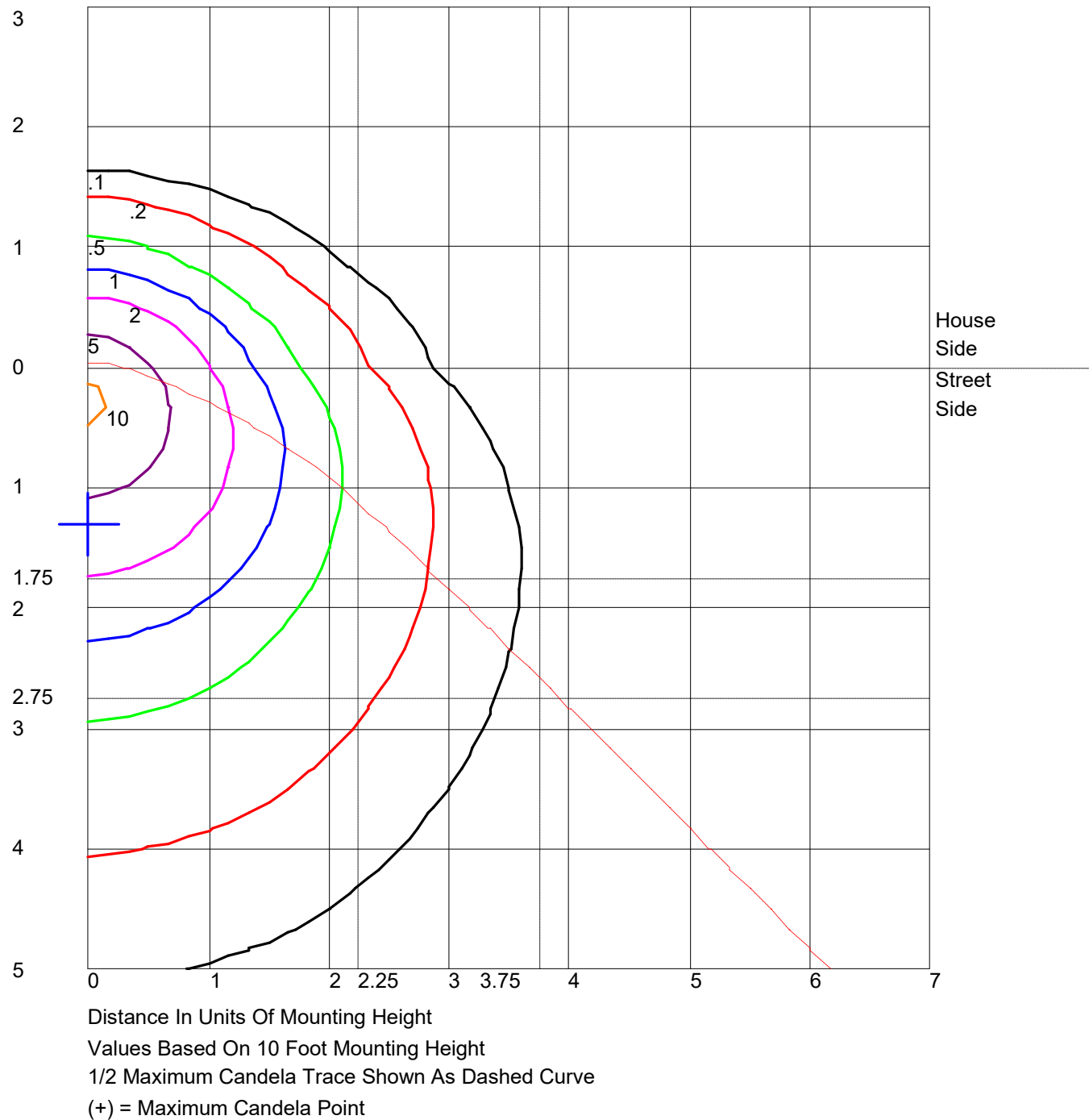
	Lumens	Percent Of Luminaire
Downward Street Side	3270.2	64.7
Downward House Side	664.4	13.1
Downward Total	3934.6	77.9
Upward Street Side	1084.7	21.5
Upward House Side	33.6	0.7
Upward Total	1118.3	22.1
Total Flux	5052.9	100.0

POLAR GRAPH

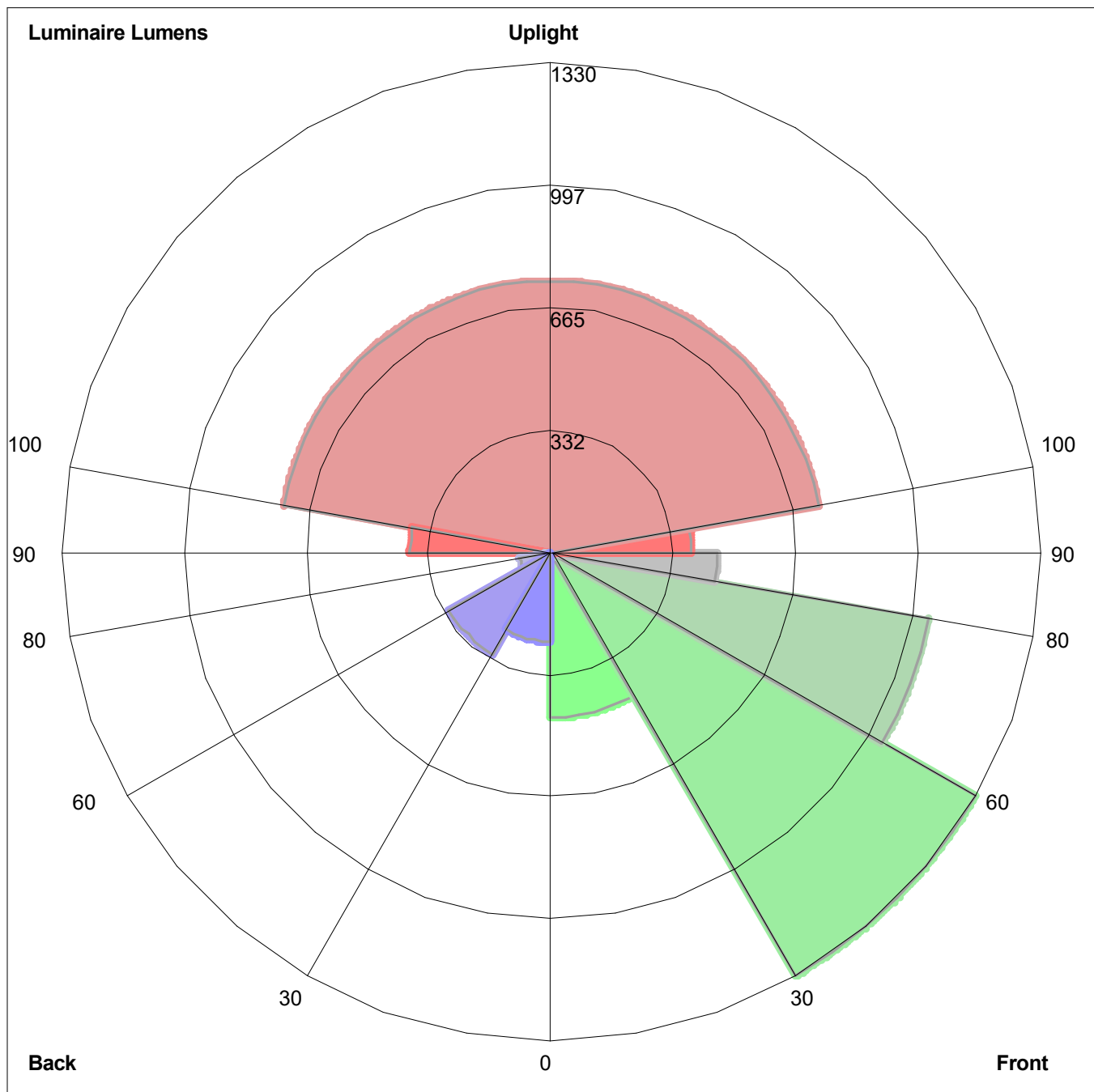


Maximum Candela = 1624 Located At Horizontal Angle = 360, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=449.7, Medium=1329.8, High=1039.1, Very High=451.6
Back: Low=242.8, Medium=319.2, High=85.7, Very High=16.7
Uplight: Low=381.9, High=736.5

BUG Rating : B1-U4-G3