



IES ROAD REPORT
PHOTOMETRIC FILENAME : XPWS3-WT-LED-28-450-CW-UE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3060
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/19/12
[TEST DATE]03/19/12
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XPWS3-WT-LED-28-450-CW-UE
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[LED DRIVER]ELECTRONIC LED DRIVER

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3636
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	44
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2265
Maximum Candela Angle	58H 42V
Maximum Candela (<90 Degrees Vertical)	2265
Maximum Candela Angle (<90 Degrees Vertical)	58H 42V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	242 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : XPWS3-WT-LED-28-450-CW-UE.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	344.5	N.A.	9.5
FM - Front-Medium (30-60)	1435.0	N.A.	39.5
FH - Front-High (60-80)	545.5	N.A.	15.0
FVH - Front-Very High (80-90)	11.4	N.A.	0.3
BL - Back-Low (0-30)	257.2	N.A.	7.1
BM - Back-Medium (30-60)	768.9	N.A.	21.1
BH - Back-High (60-80)	267.3	N.A.	7.4
BVH - Back-Very High (80-90)	6.4	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3636.2	N.A.	100.0
BUG Rating	B1-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>58</u>	<u>65</u>	<u>75</u>
0.0	627	627	627	627	627	627	627	627	627	627
2.5	631	631	631	629	626	625	630	628	632	628
5.0	640	640	640	634	632	631	635	633	637	633
7.5	648	648	648	633	637	636	638	636	639	635
10.0	674	673	670	649	655	646	645	642	645	640
12.5	706	707	701	681	675	666	664	659	660	652
15.0	766	767	755	733	711	695	682	676	674	665
17.5	853	852	835	802	767	735	706	697	683	679
20.0	940	938	922	882	842	792	736	723	706	694
22.5	994	994	985	958	920	862	786	773	758	747
25.0	1022	1024	1021	1007	988	933	879	861	836	789
27.5	1030	1033	1033	1032	1033	1030	981	959	903	823
30.0	1013	1017	1028	1034	1060	1133	1097	1066	960	929
32.5	945	948	975	1019	1115	1270	1263	1225	1149	1128
35.0	871	875	905	956	1181	1432	1532	1539	1512	1347
37.5	791	795	821	893	1184	1574	1873	1933	1879	1521
40.0	722	725	749	832	1152	1684	2135	2197	2112	1581
42.0	670	672	699	772	1087	1693	2235	2265	2117	1607
42.5	665	666	693	768	1085	1696	2244	2264	2114	1607
45.0	619	620	649	737	1078	1661	2124	2149	2087	1632
47.5	573	574	614	738	1130	1572	1929	2025	2064	1644
50.0	528	529	565	754	1205	1450	1779	1918	2043	1658
52.5	477	481	526	780	1218	1327	1676	1826	2026	1755
55.0	378	385	474	819	1163	1234	1598	1754	2030	1887
57.5	286	290	406	769	1073	1169	1561	1702	1988	1911
60.0	113	123	311	669	890	1168	1559	1656	1896	1778
62.5	64	66	162	321	694	1188	1542	1600	1701	1551
65.0	42	45	115	235	381	1105	1408	1438	1505	1426
67.5	27	29	68	137	350	828	1196	1250	1249	1202
70.0	15	17	33	69	237	581	856	884	961	1049
72.5	13	14	24	37	138	406	515	563	758	867
75.0	11	12	23	34	122	214	343	345	487	655
77.5	9	10	19	25	91	136	174	222	269	413
80.0	8	8	11	15	23	61	82	80	165	242
82.5	7	7	10	10	12	15	25	28	35	70
85.0	6	5	6	6	8	8	10	11	13	18
87.5	5	5	5	5	5	5	5	5	5	6
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	627	627	627	627	627	627	627	627	627	627
2.5	629	629	629	629	627	623	621	625	624	625
5.0	630	630	628	628	623	618	615	618	618	619
7.5	630	629	628	625	619	613	609	611	609	611
10.0	635	634	632	627	619	611	605	607	605	608
12.5	645	645	642	634	623	613	604	600	599	599
15.0	655	656	652	647	621	613	604	595	589	588
17.5	663	660	654	652	622	609	597	591	585	582
20.0	686	686	677	660	620	603	599	592	584	574
22.5	731	728	722	696	637	602	598	581	572	564
25.0	751	738	724	703	647	607	587	579	562	553

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CANDELA TABULATION - (Cont.)

27.5	770	751	725	696	636	601	579	569	553	545
30.0	898	874	835	756	630	591	573	565	551	540
32.5	1111	1093	1052	956	722	595	573	562	550	529
35.0	1251	1231	1170	1081	898	682	574	554	535	525
37.5	1353	1330	1266	1199	1074	836	603	549	529	511
40.0	1367	1329	1263	1218	1180	1003	713	562	492	398
42.0	1351	1306	1243	1192	1186	1117	836	563	401	274
42.5	1349	1305	1241	1189	1186	1126	851	561	383	259
45.0	1319	1273	1207	1150	1173	1134	968	525	243	122
47.5	1276	1223	1154	1094	1166	1087	946	443	123	71
50.0	1284	1221	1142	1071	1134	1027	707	274	102	75
52.5	1392	1310	1231	1138	1119	934	400	189	100	84
55.0	1509	1415	1342	1248	1161	780	195	182	98	77
57.5	1534	1433	1382	1316	1238	623	160	182	94	72
60.0	1452	1354	1324	1280	1248	525	174	158	91	71
62.5	1304	1224	1211	1163	1071	487	149	138	105	78
65.0	1159	1061	1048	994	774	364	112	123	127	82
67.5	955	814	786	731	541	223	106	95	118	66
70.0	872	703	674	591	401	154	106	75	96	37
72.5	762	624	578	454	270	137	97	63	51	28
75.0	536	441	402	292	129	109	66	49	30	29
77.5	337	277	264	164	68	54	40	37	26	23
80.0	160	132	123	81	33	27	25	22	13	10
82.5	65	64	68	22	12	14	12	10	11	5
85.0	16	14	12	10	6	7	6	5	5	4
87.5	5	5	5	5	4	4	4	4	4	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

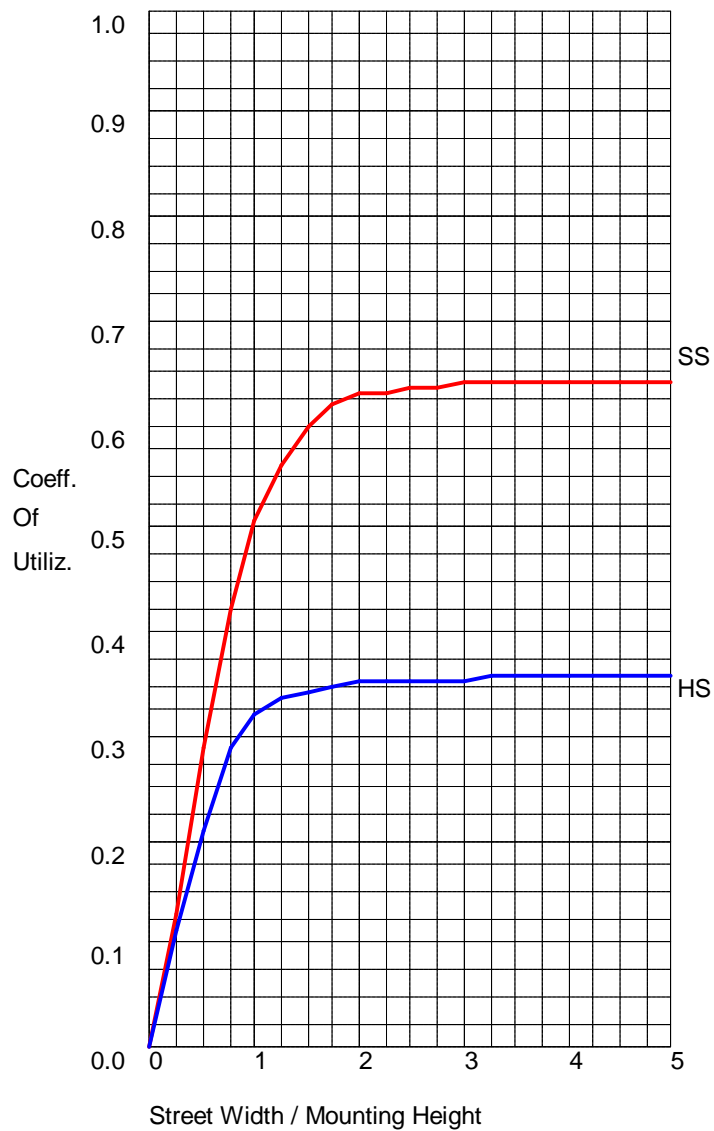
	<u>175</u>	<u>180</u>
0.0	627	627
2.5	619	616
5.0	612	609
7.5	603	601
10.0	597	594
12.5	586	583
15.0	577	575
17.5	569	566
20.0	561	558
22.5	552	549
25.0	543	540
27.5	537	534
30.0	528	523
32.5	517	512
35.0	507	500
37.5	462	452
40.0	337	328
42.0	213	205
42.5	198	189
45.0	80	75
47.5	70	68
50.0	69	67
52.5	68	65
55.0	64	59
57.5	64	56

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CANDELA TABULATION - (Cont.)

60.0	66	64
62.5	66	77
65.0	53	54
67.5	35	34
70.0	22	21
72.5	13	13
75.0	11	9
77.5	8	7
80.0	5	5
82.5	5	5
85.0	4	5
87.5	4	4
90.0	0	0

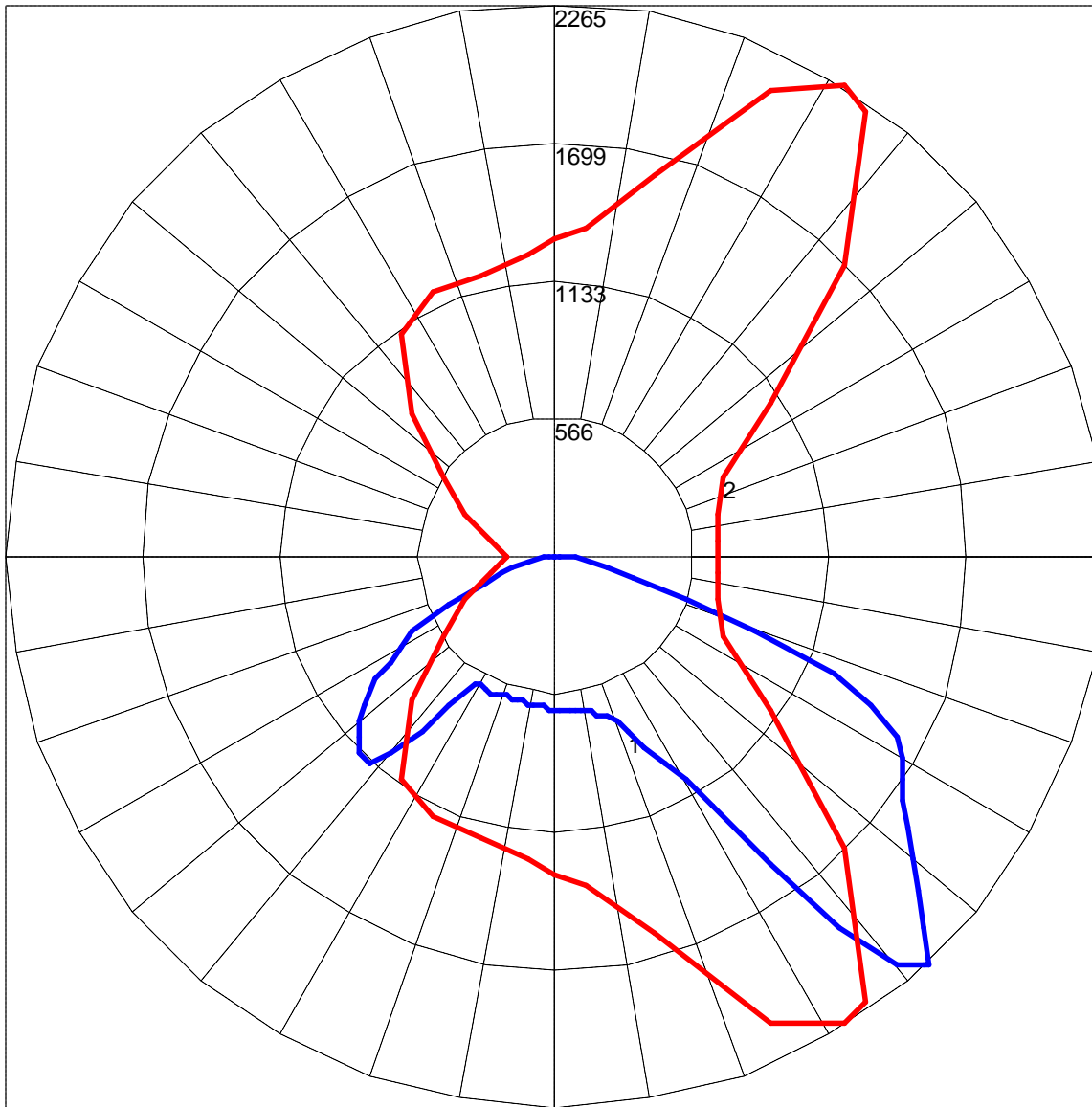
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

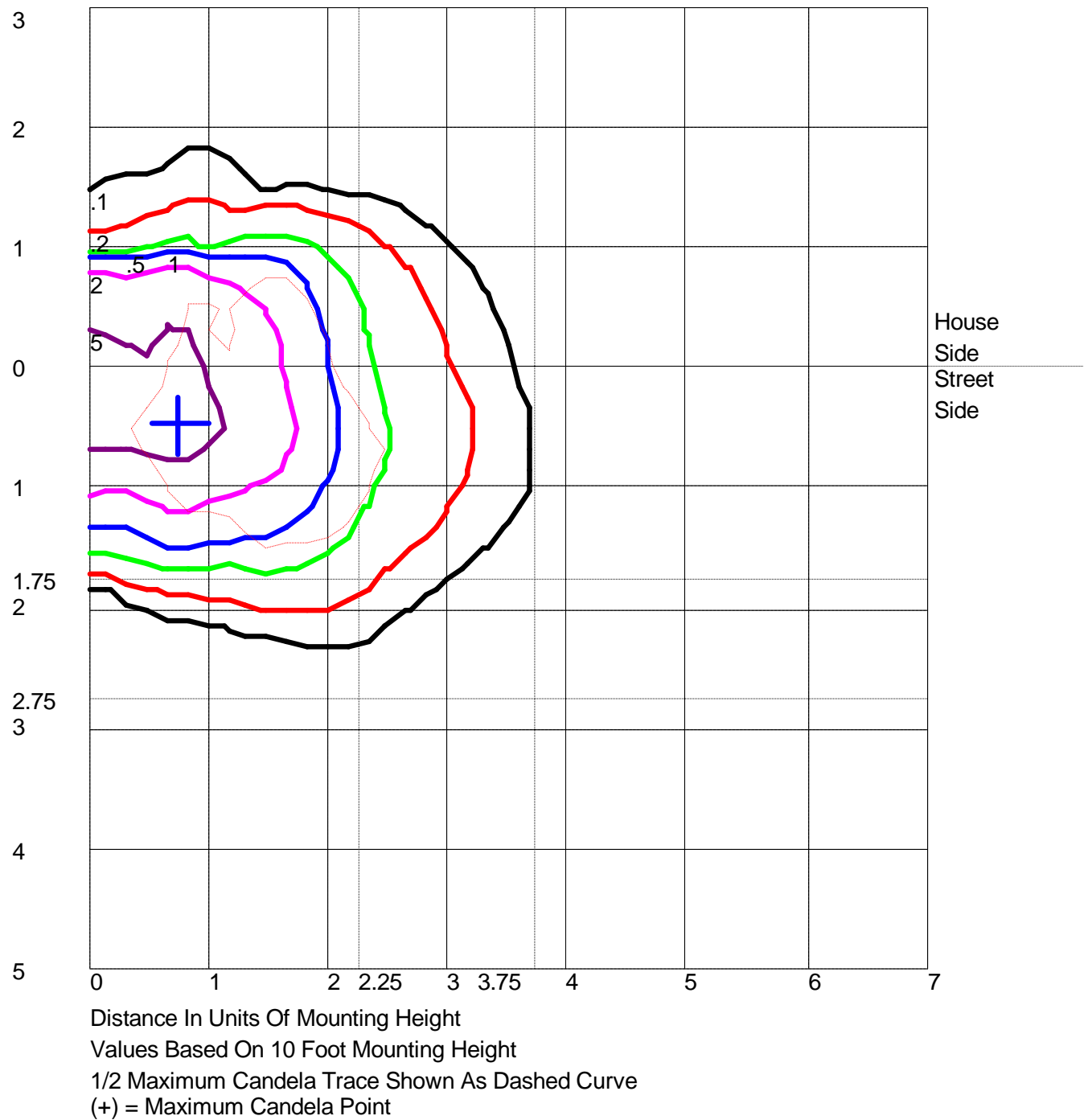
	Lumens	Percent Of Luminaire
Downward Street Side	2336.5	64.3
Downward House Side	1299.8	35.7
Downward Total	3636.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3636.3	100.0

POLAR GRAPH

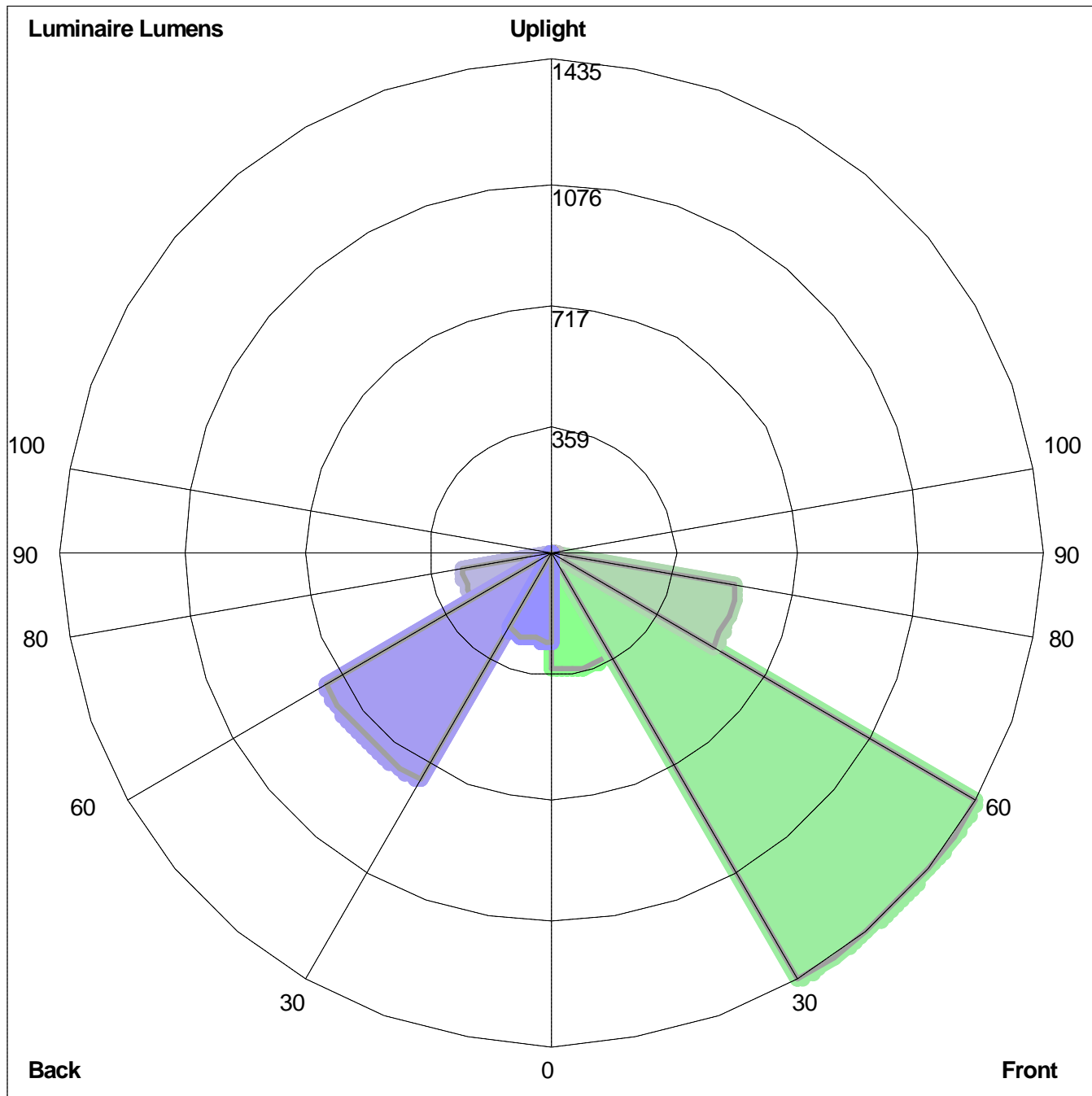


Maximum Candela = 2265 Located At Horizontal Angle = 58, Vertical Angle = 42
1 - Vertical Plane Through Horizontal Angles (58 - 238) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (42) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=344.5, Medium= 1435.0, High=545.5, Very High=11.4
Back: Low=257.2, Medium=768.9, High=267.3, Very High=6.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1