



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3063
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/20/12
[TEST DATE]03/20/12
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XPWS3-FT-LED-28-450-CW-UE
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[LED DRIVER]ELECTRONIC LED DRIVER

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3730
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	44
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2860
Maximum Candela Angle	29H 57.5V
Maximum Candela (<90 Degrees Vertical)	2860
Maximum Candela Angle (<90 Degrees Vertical)	29H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	282 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	300.1	N.A.	8.0
FM - Front-Medium (30-60)	1523.0	N.A.	40.8
FH - Front-High (60-80)	1007.5	N.A.	27.0
FVH - Front-Very High (80-90)	24.4	N.A.	0.7
BL - Back-Low (0-30)	255.9	N.A.	6.9
BM - Back-Medium (30-60)	491.4	N.A.	13.2
BH - Back-High (60-80)	122.5	N.A.	3.3
BVH - Back-Very High (80-90)	5.6	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	3730.4	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>29</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	693	693	693	693	693	693	693	693	693	693
2.5	689	682	682	671	680	681	682	685	691	692
5.0	641	635	636	626	637	642	652	665	681	690
7.5	610	604	607	604	609	615	627	643	667	688
10.0	588	584	585	591	589	598	613	633	660	689
12.5	582	578	581	583	580	584	598	622	657	696
15.0	579	574	578	581	580	585	593	611	653	701
17.5	576	573	579	583	582	586	593	607	649	725
20.0	572	570	585	586	584	586	595	619	679	793
22.5	567	567	580	582	582	587	610	669	754	889
25.0	563	563	565	582	582	595	652	756	873	995
27.5	561	562	566	581	586	611	723	853	991	1141
30.0	564	565	578	592	603	656	814	926	1112	1308
32.5	566	568	579	612	634	728	889	1016	1217	1427
35.0	575	576	585	635	684	809	959	1108	1290	1469
37.5	613	614	615	683	756	889	1046	1204	1281	1426
40.0	684	682	678	784	864	972	1144	1254	1246	1362
42.5	791	786	774	950	1026	1104	1251	1266	1218	1282
45.0	929	922	917	1152	1216	1319	1326	1265	1181	1185
47.5	1108	1098	1106	1400	1482	1583	1434	1258	1153	1099
50.0	1300	1290	1364	1730	1801	1864	1542	1244	1133	1069
52.5	1478	1465	1647	2147	2217	2075	1658	1269	1131	1102
55.0	1514	1509	1864	2569	2621	2323	1760	1357	1198	1190
57.5	1406	1396	1830	2736	2860	2616	1972	1520	1289	1271
60.0	1267	1263	1796	2641	2721	2713	2307	1693	1348	1295
62.5	1005	1005	1564	2425	2553	2579	2599	1894	1349	1202
65.0	695	705	1161	1874	2102	2481	2637	2048	1219	980
67.5	326	335	529	1199	1581	2234	2569	1946	1058	799
70.0	136	142	236	600	1035	1792	2050	1641	1021	682
72.5	53	56	80	414	818	1261	1323	1285	978	570
75.0	33	36	53	331	589	783	727	767	798	453
77.5	24	26	40	173	300	430	330	343	586	375
80.0	19	20	32	77	138	201	158	171	282	280
82.5	13	14	21	27	37	62	72	101	144	111
85.0	9	9	11	14	17	18	25	45	65	34
87.5	6	5	5	6	6	7	7	8	8	7
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	693	693	693	693	693	693	693	693	693	693
2.5	693	691	693	695	697	694	696	702	705	709
5.0	694	693	696	699	703	702	705	711	714	718
7.5	698	699	702	706	711	708	705	706	704	706
10.0	711	712	714	717	719	708	701	698	690	687
12.5	741	748	749	749	733	710	698	670	633	607
15.0	780	798	803	801	763	721	666	596	532	493
17.5	843	878	890	880	809	725	605	500	421	367
20.0	955	1004	1016	983	877	711	534	395	304	247
22.5	1090	1151	1159	1100	953	694	452	288	209	167
25.0	1210	1271	1274	1191	1002	666	370	210	149	117
27.5	1365	1417	1404	1283	1000	614	316	166	105	88

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CANDELA TABULATION - (Cont.)

30.0	1513	1545	1504	1355	965	539	313	146	86	86
32.5	1607	1624	1533	1363	877	487	325	170	83	80
35.0	1629	1672	1529	1290	753	464	385	225	86	82
37.5	1572	1623	1508	1202	644	442	436	285	99	89
40.0	1511	1557	1475	1100	548	454	465	329	109	102
42.5	1467	1513	1438	979	473	471	458	286	112	100
45.0	1382	1437	1374	862	425	451	390	245	157	92
47.5	1280	1351	1317	746	375	400	317	238	195	91
50.0	1184	1305	1317	654	322	308	279	255	179	73
52.5	1197	1335	1384	618	288	242	250	208	118	64
55.0	1266	1311	1321	611	282	211	193	151	85	72
57.5	1324	1346	1318	581	265	219	128	119	62	44
60.0	1296	1302	1252	516	244	211	77	87	58	32
62.5	1100	1123	1067	370	206	158	67	68	45	31
65.0	913	909	843	252	155	86	63	50	31	22
67.5	752	756	654	148	99	77	55	43	28	18
70.0	640	614	515	120	80	64	63	43	21	15
72.5	519	441	335	113	68	58	67	39	18	12
75.0	359	337	219	94	59	55	58	30	15	10
77.5	218	202	129	59	48	43	47	25	11	8
80.0	151	152	87	31	35	26	24	15	9	6
82.5	75	71	42	21	26	14	10	7	5	3
85.0	20	18	13	13	13	11	5	3	3	3
87.5	7	7	6	5	5	5	4	3	3	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

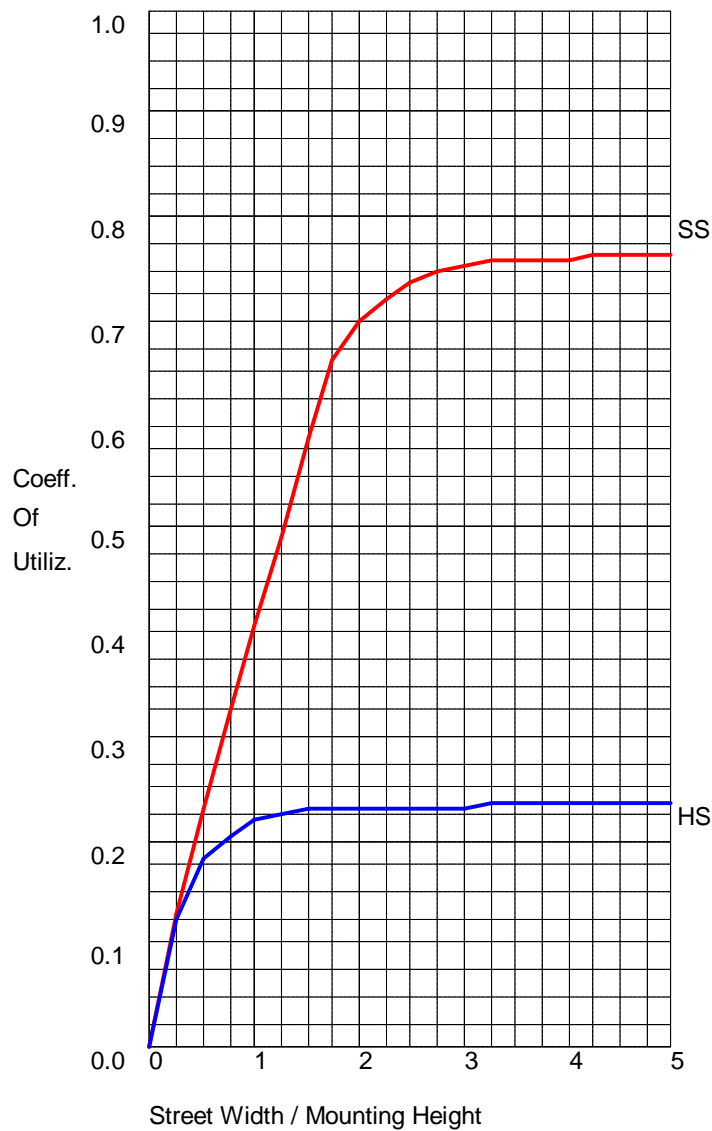
	175	180
0.0	693	693
2.5	705	708
5.0	714	716
7.5	700	700
10.0	676	675
12.5	587	583
15.0	466	463
17.5	334	329
20.0	217	214
22.5	145	142
25.0	95	92
27.5	79	75
30.0	73	69
32.5	69	66
35.0	67	62
37.5	64	59
40.0	65	57
42.5	63	55
45.0	54	47
47.5	45	39
50.0	24	16
52.5	20	14
55.0	18	12
57.5	14	12
60.0	15	13
62.5	16	15
65.0	15	14

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CANDELA TABULATION - (Cont.)

67.5	13	12
70.0	11	10
72.5	10	9
75.0	8	7
77.5	6	6
80.0	5	3
82.5	3	2
85.0	3	1
87.5	2	2
90.0	0	0

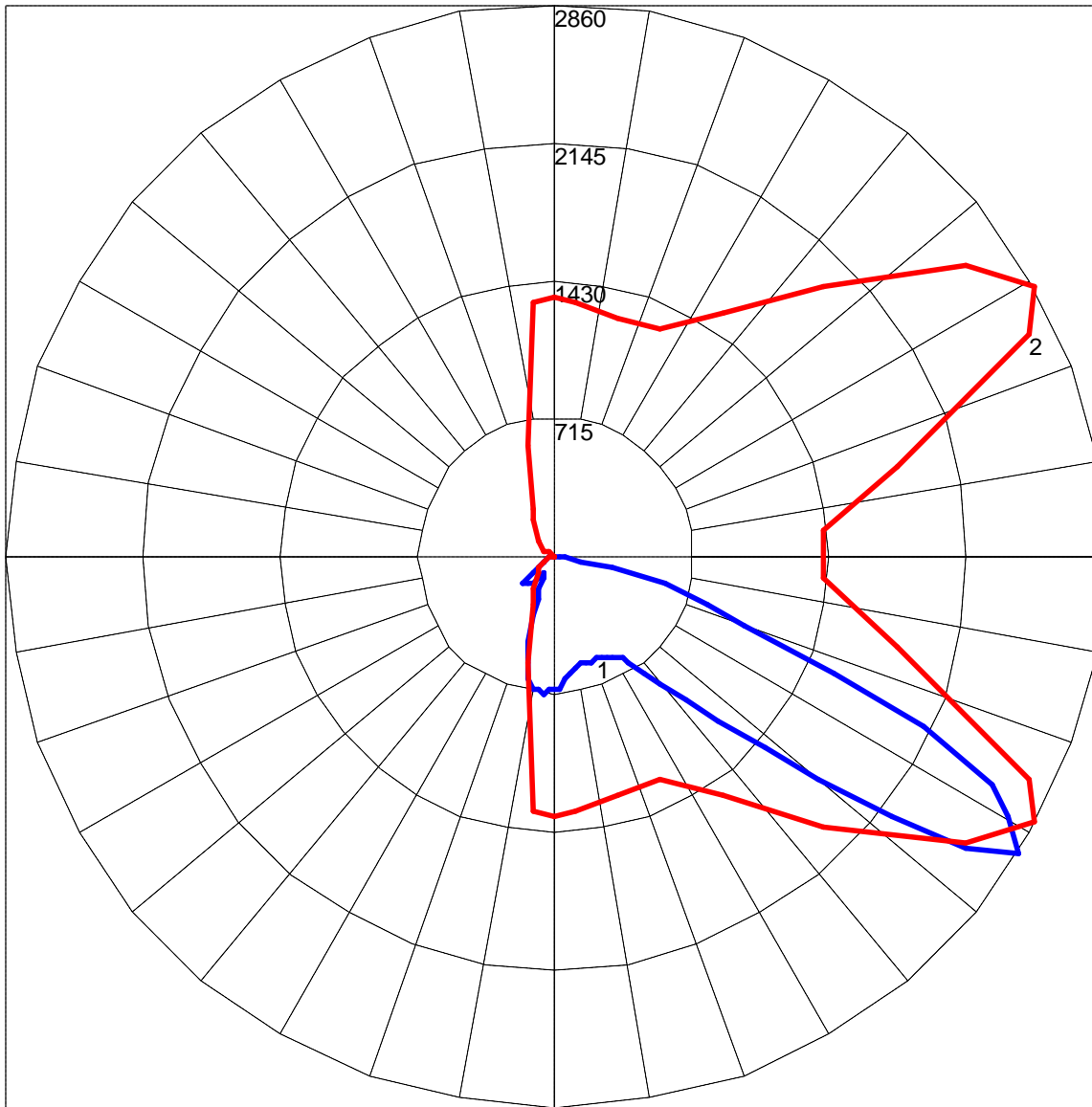
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

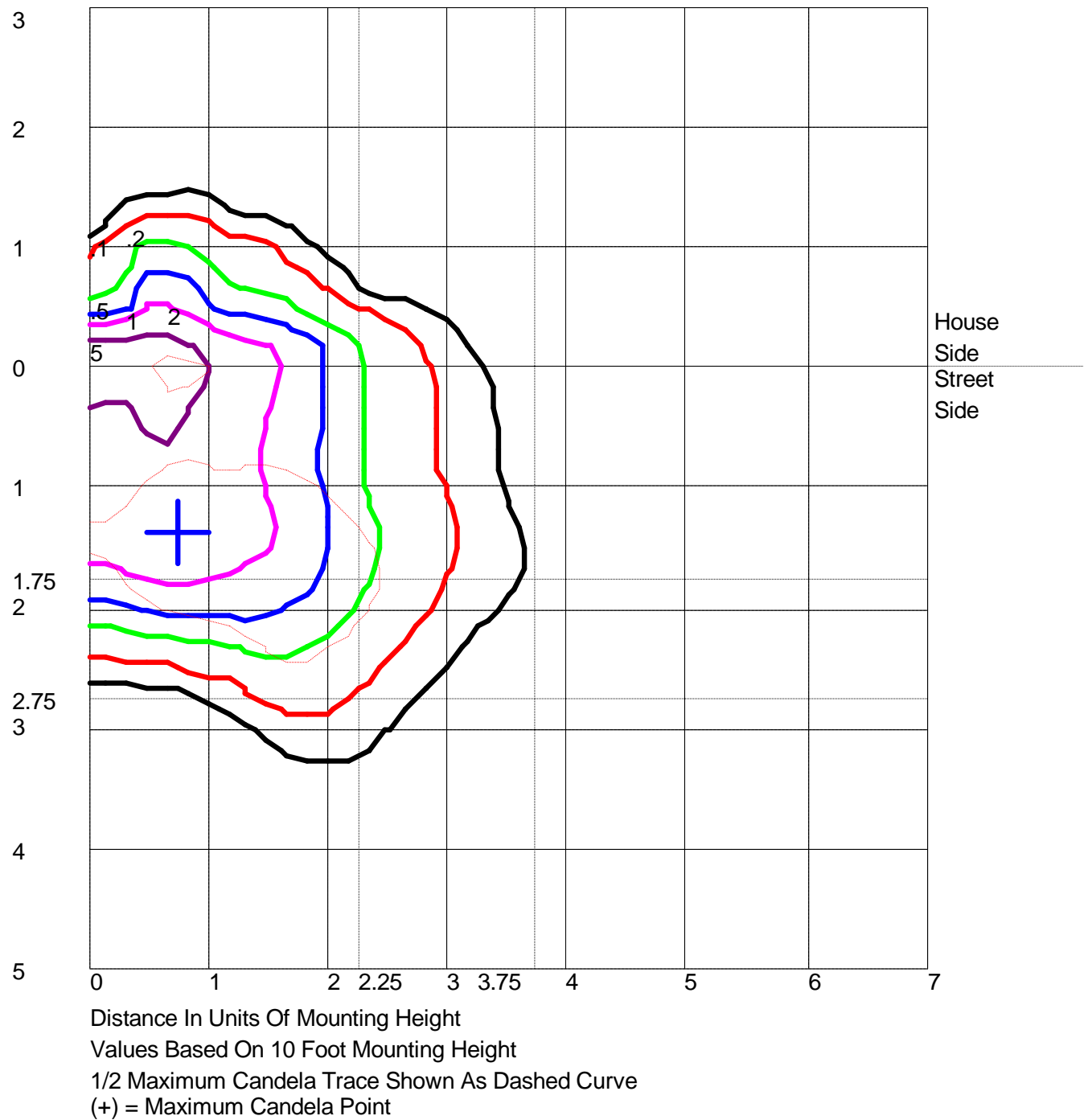
	Lumens	Percent Of Luminaire
Downward Street Side	2854.9	76.5
Downward House Side	875.4	23.5
Downward Total	3730.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3730.3	100.0

POLAR GRAPH

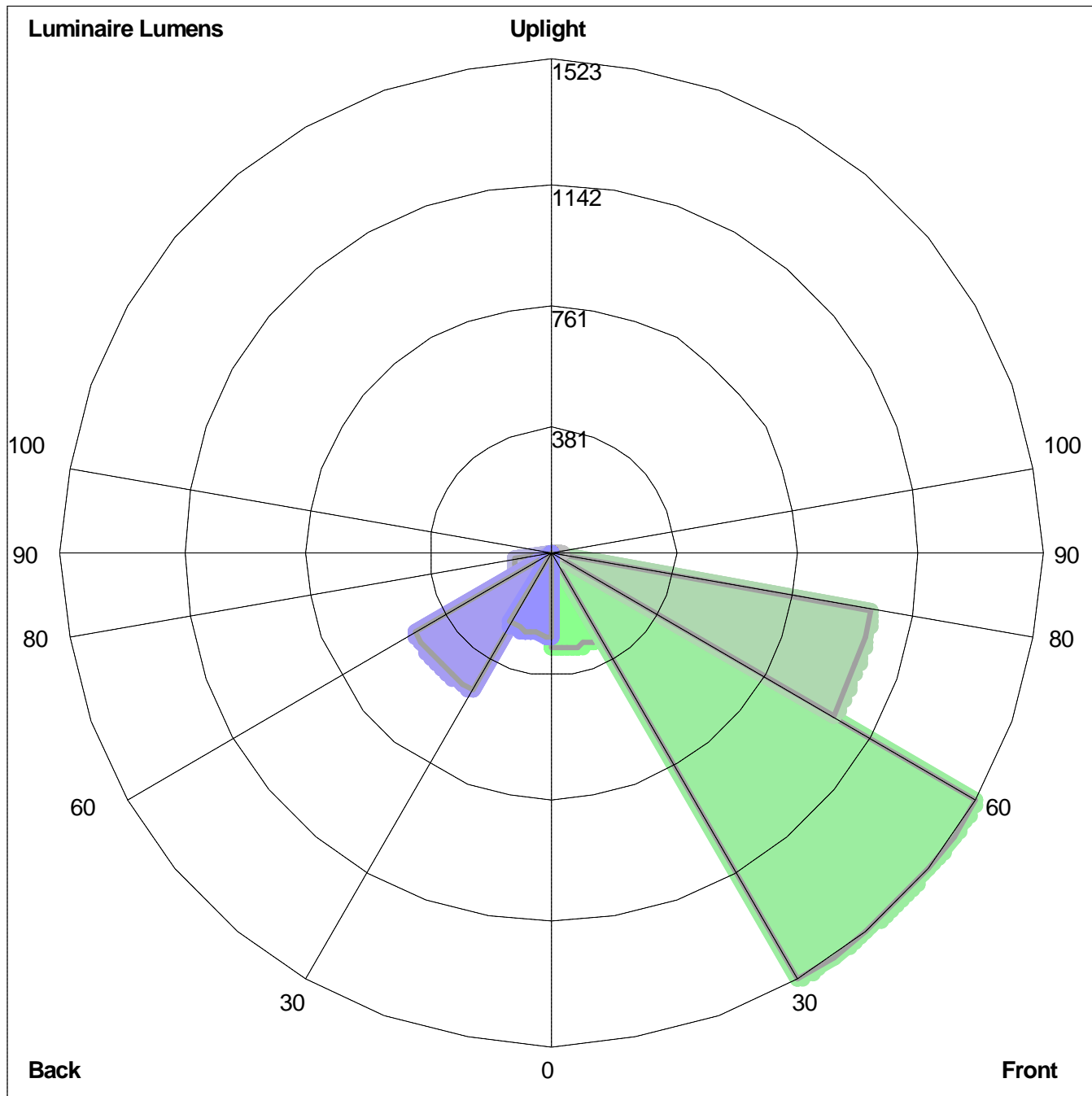


Maximum Candela = 2860 Located At Horizontal Angle = 29, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (29 - 209) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=300.1, Medium= 1523.0, High=1007.5, Very High=24.4
Back: Low=255.9, Medium=491.4, High=122.5, Very High=5.6
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1