



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-3072  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]03/21/12  
[TEST DATE]03/21/12  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XPWS3-FT-LED-28-450-NW-UE  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[LED DRIVER]ELECTRONIC LED DRIVER

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3530
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	44
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2410
Maximum Candela Angle	35H 66V
Maximum Candela (<90 Degrees Vertical)	2410
Maximum Candela Angle (<90 Degrees Vertical)	35H 66V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	309 (8.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	293.9	N.A.	8.3
FM - Front-Medium (30-60)	1325.7	N.A.	37.6
FH - Front-High (60-80)	963.8	N.A.	27.3
FVH - Front-Very High (80-90)	24.1	N.A.	0.7
BL - Back-Low (0-30)	260.6	N.A.	7.4
BM - Back-Medium (30-60)	522.7	N.A.	14.8
BH - Back-High (60-80)	132.1	N.A.	3.7
BVH - Back-Very High (80-90)	6.6	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	3529.5	N.A.	100.0
BUG Rating	B1-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	683	683	683	683	683	683	683	683	683	683
2.5	685	678	678	670	677	677	679	684	684	683
5.0	646	641	642	632	645	652	662	675	683	684
7.5	616	610	614	611	625	637	650	667	684	691
10.0	589	584	586	593	604	624	644	665	683	698
12.5	572	569	574	581	590	606	634	674	703	732
15.0	558	554	558	564	575	596	627	680	739	796
17.5	549	545	551	556	565	584	617	677	771	860
20.0	543	542	553	556	561	577	613	678	795	912
22.5	539	538	551	554	561	580	620	696	840	1012
25.0	534	535	538	554	567	589	654	804	1003	1216
27.5	533	534	536	554	569	613	745	1002	1231	1468
30.0	533	534	545	562	586	685	895	1184	1398	1617
32.5	529	531	543	573	624	806	1050	1282	1426	1562
35.0	529	530	539	580	679	953	1157	1267	1377	1512
37.5	548	548	553	592	781	1089	1202	1218	1326	1465
40.0	579	577	582	643	924	1175	1215	1180	1254	1426
42.5	621	618	621	742	1082	1232	1208	1155	1171	1381
45.0	679	673	672	884	1226	1305	1191	1123	1102	1326
47.5	796	784	756	1084	1331	1327	1163	1107	1068	1298
50.0	944	927	906	1363	1431	1326	1145	1114	1100	1252
52.5	1118	1104	1122	1680	1544	1333	1185	1141	1139	1251
55.0	1190	1184	1324	2038	1681	1352	1274	1170	1159	1186
57.5	1192	1177	1349	2180	1907	1493	1352	1154	1161	1191
60.0	1231	1220	1510	2189	2046	1731	1355	1127	1157	1161
62.5	1144	1142	1642	2329	2126	1989	1358	1115	1105	1026
65.0	885	900	1470	2209	2376	2008	1424	991	855	836
66.0	700	709	1112	1989	2410	2057	1442	888	753	770
67.5	575	585	908	1656	2345	2105	1377	850	702	738
70.0	341	347	532	1207	1816	1931	1253	807	616	674
72.5	148	154	240	848	1320	1364	1178	774	532	514
75.0	55	58	86	478	831	830	838	685	425	373
77.5	26	29	50	251	389	386	441	572	333	208
80.0	19	20	33	119	188	143	220	309	260	157
82.5	13	13	19	34	61	61	85	136	117	84
85.0	9	9	11	14	17	21	34	48	28	18
87.5	6	6	6	7	7	6	7	8	7	7
90.0	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>	<u>175</u>
0.0	683	683	683	683	683	683	683	683	683	683
2.5	684	683	684	683	679	681	685	687	689	685
5.0	684	683	681	678	671	669	671	671	673	667
7.5	690	688	680	674	662	653	650	646	647	640
10.0	697	693	681	669	652	641	635	630	630	623
12.5	733	722	692	666	644	635	628	616	609	599
15.0	811	799	742	682	648	631	611	583	559	540
17.5	896	888	815	727	671	619	569	517	474	446
20.0	962	953	866	776	697	594	501	424	366	330
22.5	1072	1051	920	815	706	550	414	315	249	208
25.0	1273	1233	1047	894	699	500	313	208	157	127

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**CANDELA TABULATION - (Cont.)**

27.5	1518	1447	1220	1030	738	452	229	141	113	84
30.0	1649	1560	1346	1150	765	421	198	99	84	69
32.5	1602	1500	1344	1168	746	415	220	84	84	67
35.0	1574	1473	1298	1073	650	438	278	103	86	66
37.5	1504	1414	1271	962	539	448	309	109	87	62
40.0	1458	1364	1215	836	508	437	330	128	86	62
42.5	1446	1333	1128	675	481	396	298	134	88	61
45.0	1408	1281	1035	514	411	350	245	169	87	55
47.5	1381	1270	947	407	323	304	241	203	86	47
50.0	1352	1290	886	348	264	264	259	189	77	31
52.5	1356	1320	820	331	242	216	223	134	57	22
55.0	1221	1216	730	317	239	175	190	93	73	20
57.5	1204	1181	651	284	244	142	119	70	54	17
60.0	1169	1142	583	243	260	87	88	56	35	19
62.5	1026	992	483	193	207	81	71	51	33	19
65.0	852	812	381	148	105	77	60	37	27	16
66.0	772	711	311	137	88	81	50	31	23	15
67.5	729	650	250	109	73	68	43	28	20	14
70.0	613	536	189	83	66	67	43	21	15	12
72.5	463	380	140	77	63	67	40	18	12	10
75.0	379	274	116	65	57	57	31	15	11	9
77.5	224	172	72	54	40	46	26	13	9	8
80.0	168	134	33	38	24	24	16	11	8	8
82.5	76	61	22	25	14	12	11	9	5	5
85.0	16	15	14	13	10	7	5	5	4	3
87.5	7	7	6	5	6	5	4	4	3	3
90.0	0	0	0	0	0	0	0	0	0	0

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

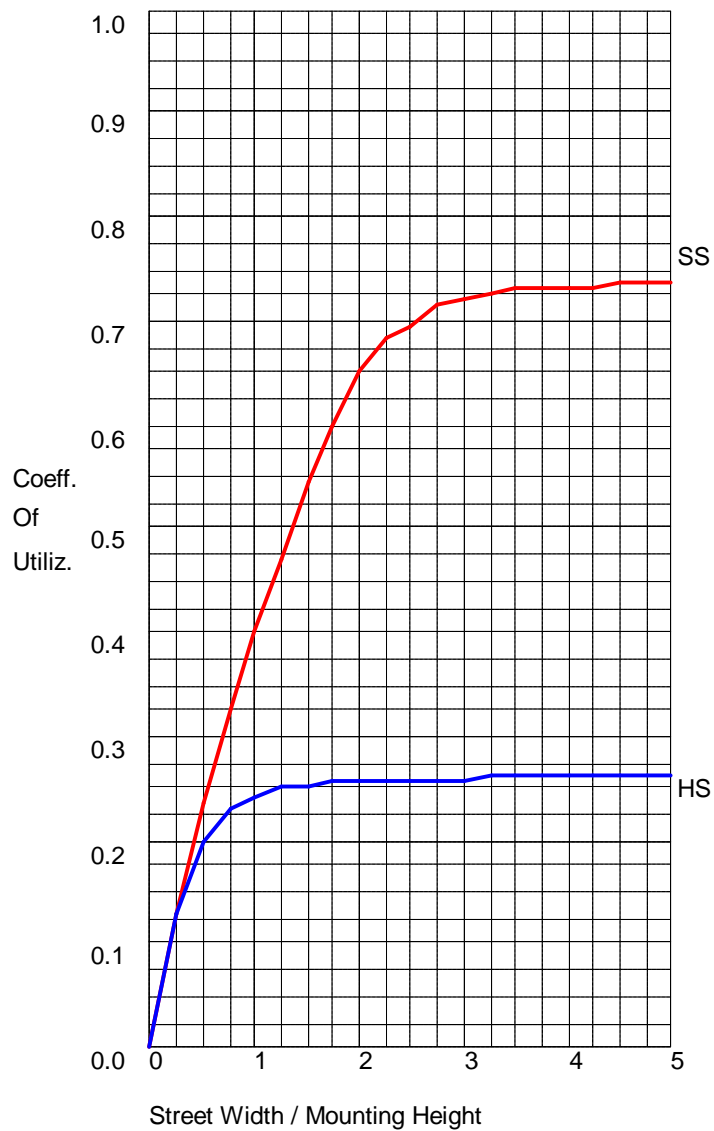
	<b><u>180</u></b>
0.0	683
2.5	685
5.0	666
7.5	639
10.0	621
12.5	596
15.0	537
17.5	442
20.0	325
22.5	203
25.0	123
27.5	80
30.0	68
32.5	62
35.0	60
37.5	57
40.0	54
42.5	53
45.0	49
47.5	43
50.0	24
52.5	15
55.0	15
57.5	15
60.0	15

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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	<b>16</b>
<b>65.0</b>	<b>15</b>
<b>66.0</b>	<b>14</b>
<b>67.5</b>	<b>13</b>
<b>70.0</b>	<b>11</b>
<b>72.5</b>	<b>9</b>
<b>75.0</b>	<b>9</b>
<b>77.5</b>	<b>8</b>
<b>80.0</b>	<b>7</b>
<b>82.5</b>	<b>5</b>
<b>85.0</b>	<b>4</b>
<b>87.5</b>	<b>4</b>
<b>90.0</b>	<b>0</b>

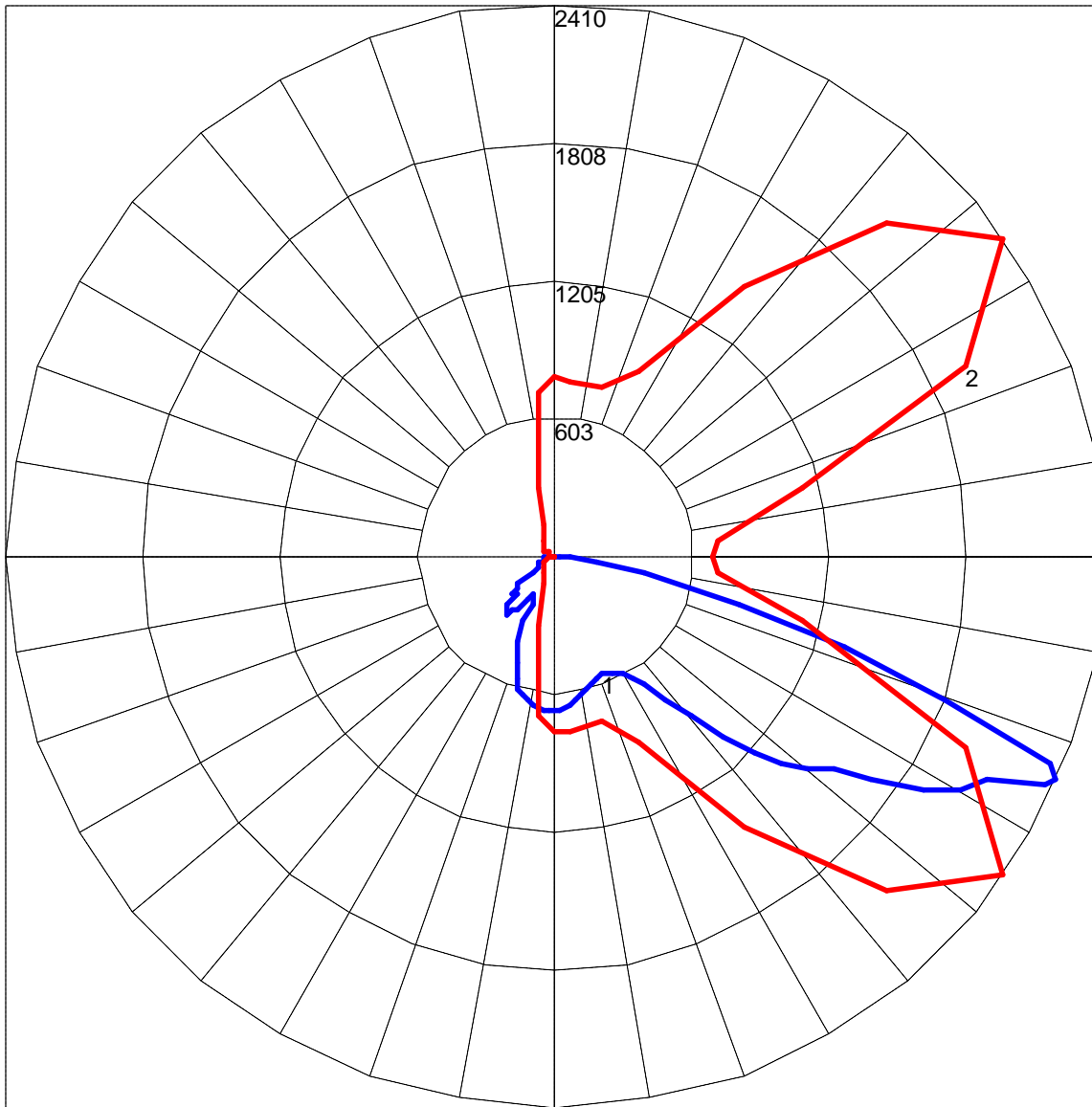
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

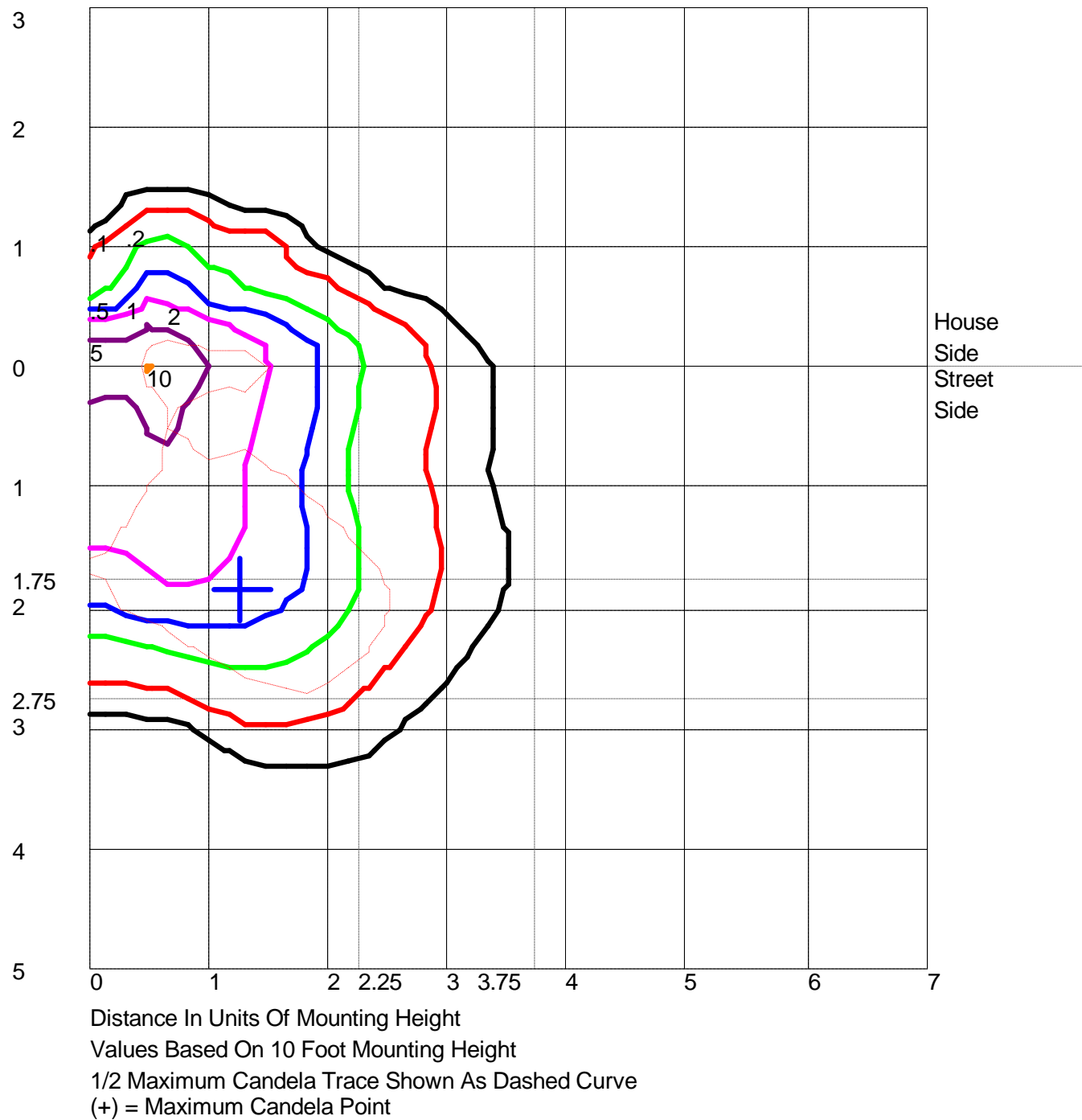
	Lumens	Percent Of Luminaire
Downward Street Side	2607.4	73.9
Downward House Side	922.1	26.1
Downward Total	3529.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3529.5	100.0

POLAR GRAPH



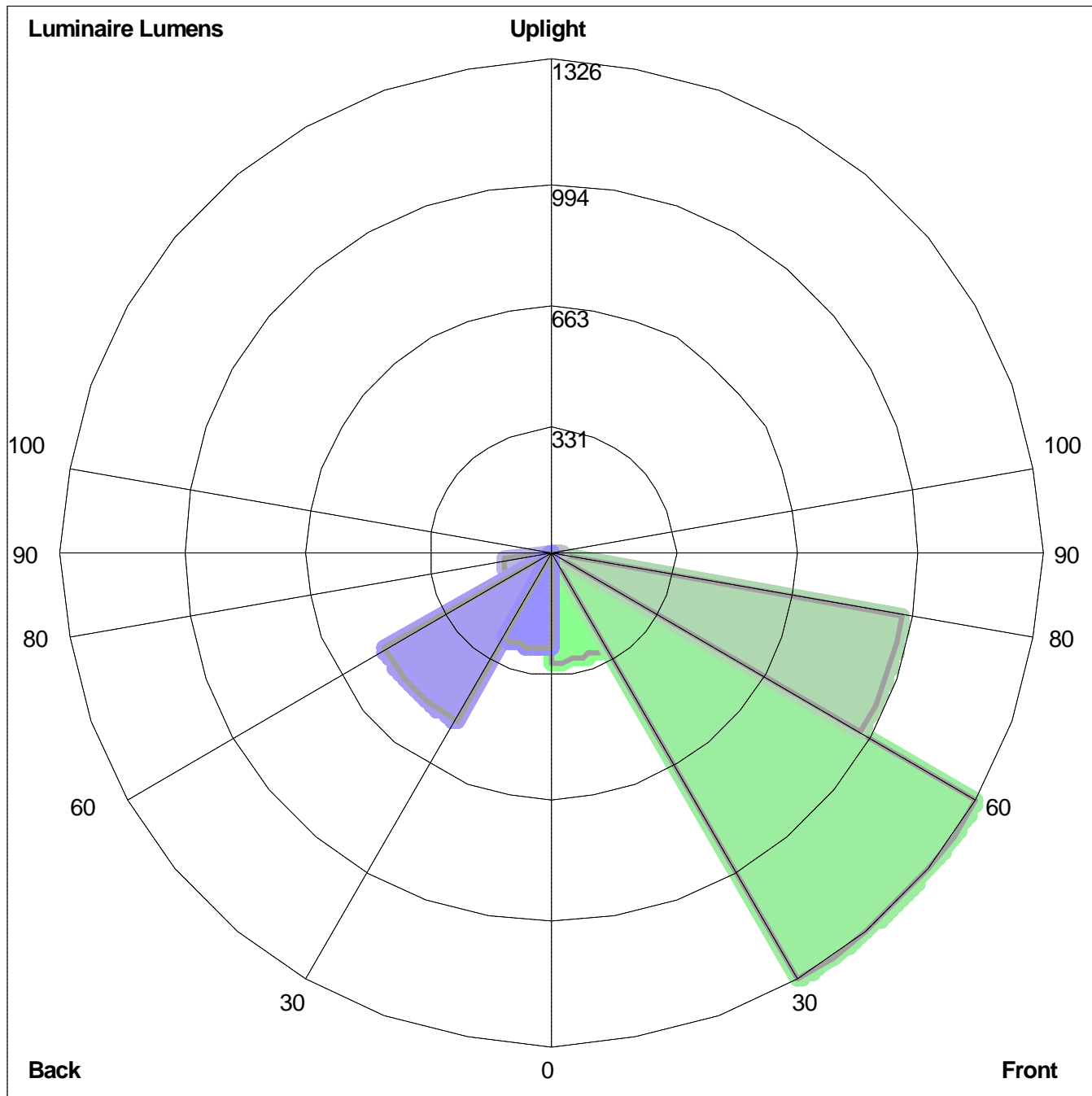
Maximum Candela = 2410 Located At Horizontal Angle = 35, Vertical Angle = 66  
# 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (66) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=293.9, Medium=1325.7, High=963.8, Very High=24.1  
Back: Low=260.6, Medium=522.7, High=132.1, Very High=6.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1