



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-13L-FT-30K8.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-12230  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 10/22/2021  
[TESTDATE] 09/24/20  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] HPG-13L-FT-30K8  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ SEARCH\_SOURCETYPE] LED  
[ SEARCH\_APPLICATION] Outdoor  
[ SEARCH\_COLORTEMP] 3000

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13845
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	106
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6601
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	6601
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	836 (6.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-13L-FT-30K8.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1274.3	N.A.	9.2
FM - Front-Medium (30-60)	4204.9	N.A.	30.4
FH - Front-High (60-80)	2911.2	N.A.	21.0
FVH - Front-Very High (80-90)	88.8	N.A.	0.6
BL - Back-Low (0-30)	1334.4	N.A.	9.6
BM - Back-Medium (30-60)	2979.5	N.A.	21.5
BH - Back-High (60-80)	996.3	N.A.	7.2
BVH - Back-Very High (80-90)	55.6	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	13845.0	N.A.	100.0
BUG Rating	B3-U0-G2		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-13L-FT-30K8.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>47.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139
<b>2.5</b>	3110	3118	3113	3116	3133	3157	3145	3147	3149	3155
<b>5.0</b>	3093	3107	3099	3103	3116	3143	3135	3142	3145	3154
<b>7.5</b>	3056	3067	3062	3071	3090	3118	3111	3117	3128	3142
<b>10.0</b>	3012	3024	3021	3029	3057	3091	3087	3100	3112	3135
<b>12.5</b>	2969	2983	2982	2994	3025	3064	3061	3081	3097	3122
<b>15.0</b>	2937	2949	2946	2964	2993	3038	3034	3059	3080	3113
<b>17.5</b>	2905	2921	2916	2933	2970	3013	3013	3041	3063	3100
<b>20.0</b>	2885	2905	2903	2920	2957	2999	2997	3027	3055	3090
<b>22.5</b>	2878	2895	2897	2920	2959	2998	2997	3022	3046	3082
<b>25.0</b>	2878	2891	2906	2930	2973	3010	3010	3033	3056	3083
<b>27.5</b>	2894	2907	2923	2950	2991	3031	3027	3049	3064	3090
<b>30.0</b>	2908	2926	2948	2976	3020	3052	3045	3060	3074	3104
<b>32.5</b>	2923	2939	2965	3004	3055	3087	3082	3086	3099	3127
<b>35.0</b>	2936	2949	2983	3038	3095	3130	3123	3126	3122	3135
<b>37.5</b>	2969	2981	3013	3084	3145	3182	3174	3163	3148	3132
<b>40.0</b>	3053	3063	3084	3154	3209	3247	3234	3217	3175	3134
<b>42.5</b>	3158	3163	3194	3257	3314	3339	3329	3301	3222	3166
<b>45.0</b>	3297	3305	3331	3393	3446	3474	3471	3426	3298	3214
<b>47.5</b>	3529	3535	3566	3608	3626	3661	3667	3601	3376	3277
<b>50.0</b>	3851	3869	3861	3897	3900	3921	3916	3786	3484	3357
<b>52.5</b>	4242	4266	4241	4274	4258	4273	4254	4037	3648	3457
<b>55.0</b>	4609	4637	4637	4704	4736	4739	4716	4399	3861	3549
<b>57.5</b>	4943	4949	5009	5113	5294	5283	5257	4882	4069	3644
<b>60.0</b>	4947	4994	5149	5372	5781	5901	5883	5309	4290	3749
<b>62.5</b>	4579	4670	4929	5307	6088	6457	6414	5673	4392	3661
<b>65.0</b>	3922	3976	4282	4801	5915	6601	6568	5753	4228	3304
<b>67.5</b>	2988	3023	3276	3816	5057	6032	6089	5467	3754	2672
<b>70.0</b>	1985	2035	2202	2685	3770	4894	5027	4649	3021	1926
<b>72.5</b>	1235	1223	1361	1684	2450	3485	3672	3584	2016	1162
<b>75.0</b>	738	754	829	1055	1564	2201	2319	2262	1298	711
<b>77.5</b>	483	493	551	733	959	1352	1421	1319	789	379
<b>80.0</b>	328	335	353	503	668	802	836	683	354	191
<b>82.5</b>	205	203	230	354	417	352	325	228	159	135
<b>85.0</b>	115	117	130	255	238	103	90	69	71	87
<b>87.5</b>	53	55	63	114	110	37	36	32	32	36
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139
<b>2.5</b>	3173	3183	3180	3162	3154	3154	3164	3137	3127	3126
<b>5.0</b>	3178	3184	3184	3170	3162	3160	3171	3152	3141	3139
<b>7.5</b>	3175	3185	3185	3173	3167	3170	3182	3154	3141	3134
<b>10.0</b>	3166	3182	3184	3175	3175	3171	3173	3154	3145	3148
<b>12.5</b>	3163	3176	3182	3175	3171	3165	3176	3169	3168	3173
<b>15.0</b>	3158	3173	3180	3172	3163	3169	3189	3183	3185	3194
<b>17.5</b>	3151	3170	3178	3169	3151	3164	3197	3195	3195	3206
<b>20.0</b>	3147	3169	3175	3159	3135	3164	3200	3201	3204	3214
<b>22.5</b>	3141	3164	3170	3141	3127	3162	3198	3203	3207	3224
<b>25.0</b>	3135	3153	3157	3111	3108	3155	3194	3197	3205	3222
<b>27.5</b>	3132	3141	3136	3074	3074	3130	3172	3185	3197	3210

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-13L-FT-30K8.IES**

**CANDELA TABULATION - (Cont.)**

30.0	3134	3136	3123	3035	3037	3092	3139	3158	3174	3189
32.5	3134	3127	3099	2989	2987	3044	3094	3113	3135	3157
35.0	3123	3103	3065	2933	2928	2991	3040	3060	3084	3108
37.5	3098	3068	3023	2863	2860	2922	2971	2983	3006	3037
40.0	3078	3035	2970	2793	2777	2831	2873	2884	2910	2946
42.5	3078	3016	2937	2718	2680	2725	2753	2771	2807	2873
45.0	3103	3018	2918	2646	2564	2600	2623	2638	2678	2840
47.5	3141	3036	2911	2572	2430	2457	2473	2488	2560	2829
50.0	3203	3071	2912	2497	2285	2300	2321	2354	2515	2645
52.5	3271	3111	2916	2417	2128	2126	2178	2278	2359	2396
55.0	3311	3118	2881	2309	1956	1966	2034	2042	2141	2178
57.5	3387	3168	2879	2186	1745	1789	1818	1876	1904	1942
60.0	3467	3233	2905	2133	1561	1574	1635	1691	1672	1693
62.5	3315	3046	2697	1978	1426	1353	1427	1501	1468	1456
65.0	2936	2594	2202	1634	1176	1174	1219	1330	1290	1290
67.5	2328	2052	1727	1350	897	969	1097	1226	1126	1135
70.0	1656	1453	1228	1141	752	745	886	895	937	984
72.5	898	804	701	821	640	613	633	733	760	825
75.0	474	426	422	510	424	435	466	547	573	674
77.5	244	230	256	305	288	263	298	365	398	511
80.0	145	138	156	186	174	175	206	220	248	333
82.5	114	108	107	126	122	121	128	140	146	194
85.0	73	69	70	76	78	78	80	83	93	100
87.5	37	36	37	40	42	42	41	45	40	47
90.0	0	0	0	0	0	0	0	0	0	0

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

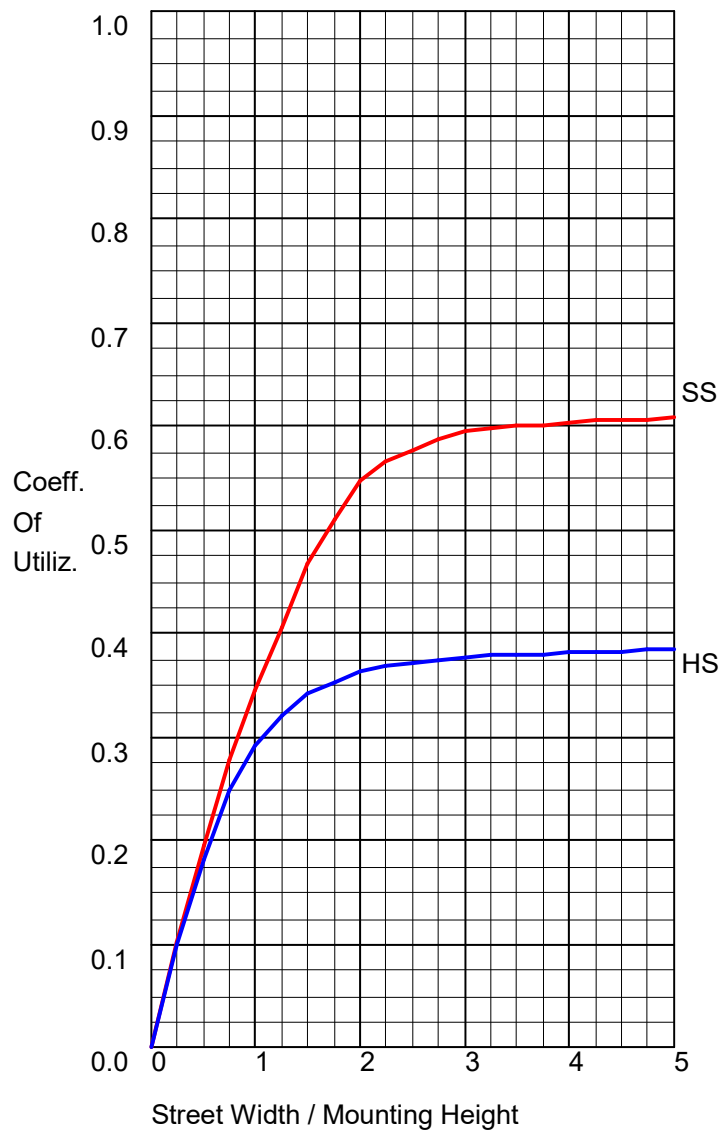
	<u>175.0</u>	<u>180.0</u>
0.0	3139	3139
2.5	3124	3111
5.0	3142	3129
7.5	3136	3126
10.0	3152	3138
12.5	3180	3167
15.0	3201	3187
17.5	3216	3202
20.0	3229	3220
22.5	3239	3229
25.0	3240	3229
27.5	3231	3224
30.0	3209	3205
32.5	3175	3164
35.0	3128	3115
37.5	3059	3050
40.0	2992	2989
42.5	2988	3002
45.0	3087	3118
47.5	3002	3008
50.0	2685	2683
52.5	2419	2420
55.0	2202	2208
57.5	1958	1949
60.0	1686	1688
62.5	1482	1491
65.0	1330	1339

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-13L-FT-30K8.IES**

**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1195	1207
<b>70.0</b>	1051	1055
<b>72.5</b>	897	902
<b>75.0</b>	761	775
<b>77.5</b>	608	616
<b>80.0</b>	444	466
<b>82.5</b>	293	307
<b>85.0</b>	159	163
<b>87.5</b>	72	75
<b>90.0</b>	0	0

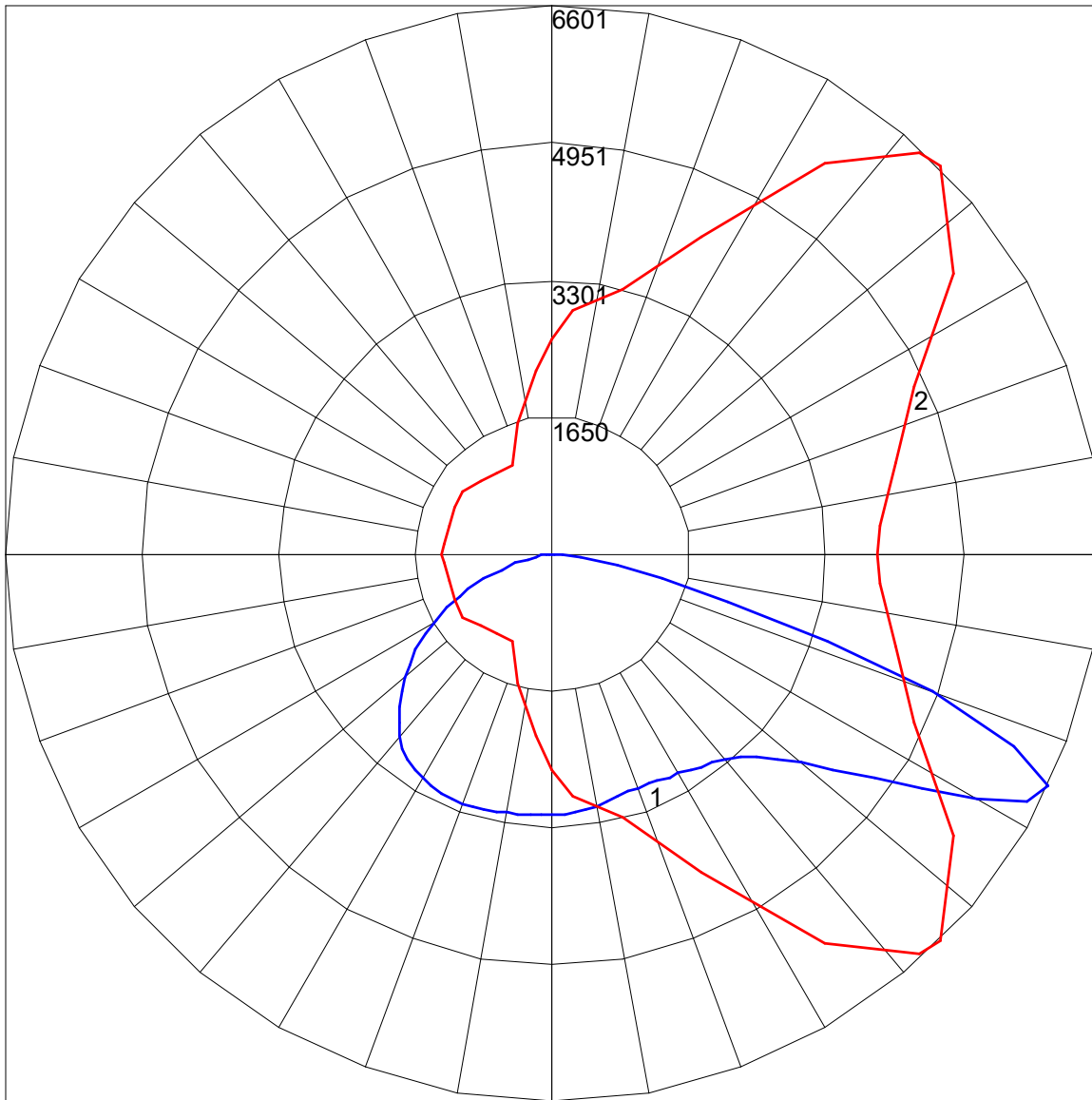
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

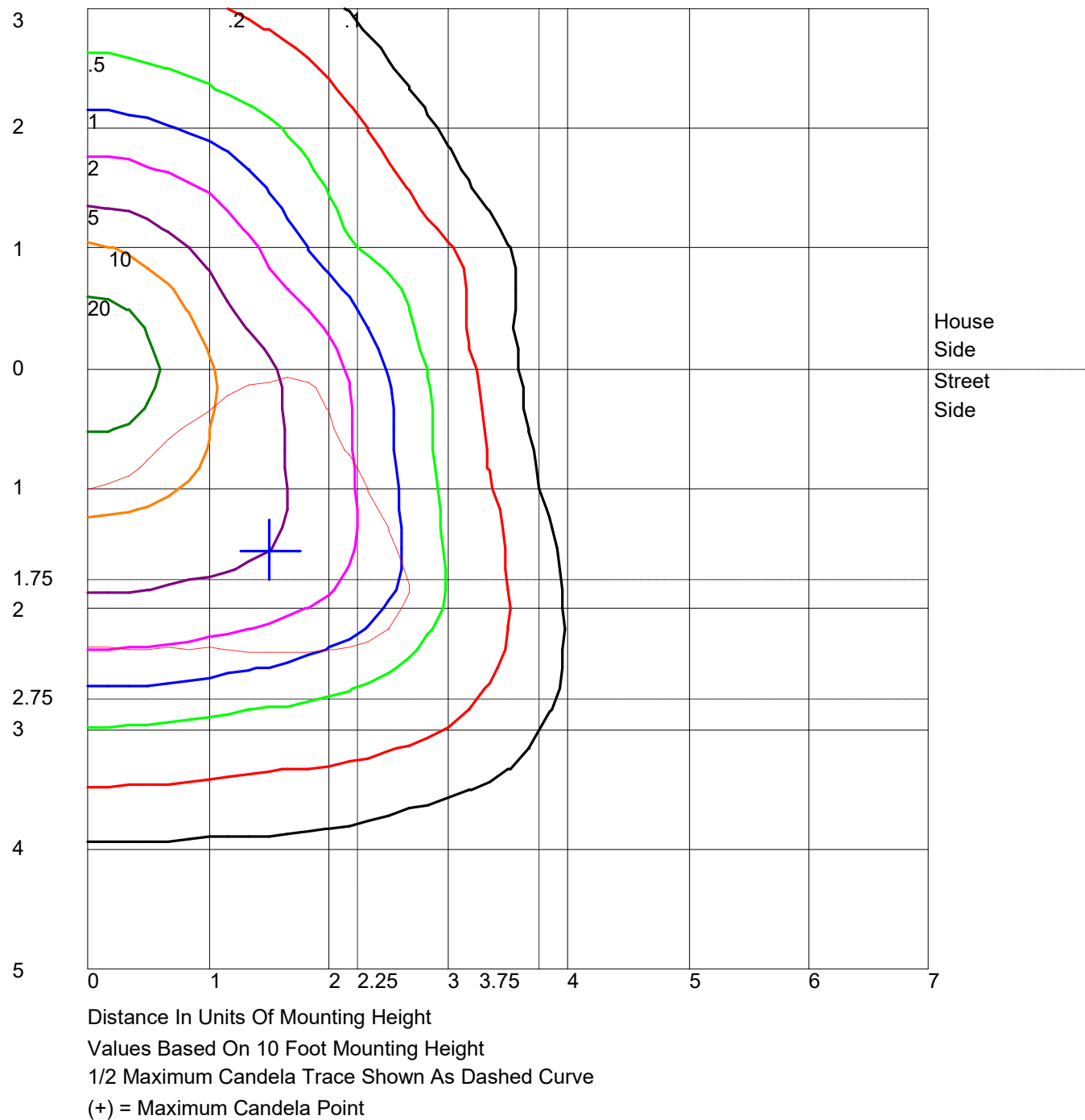
	Lumens	Percent Of Luminaire
Downward Street Side	8479.2	61.2
Downward House Side	5365.7	38.8
Downward Total	13844.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	13844.9	100.0

POLAR GRAPH

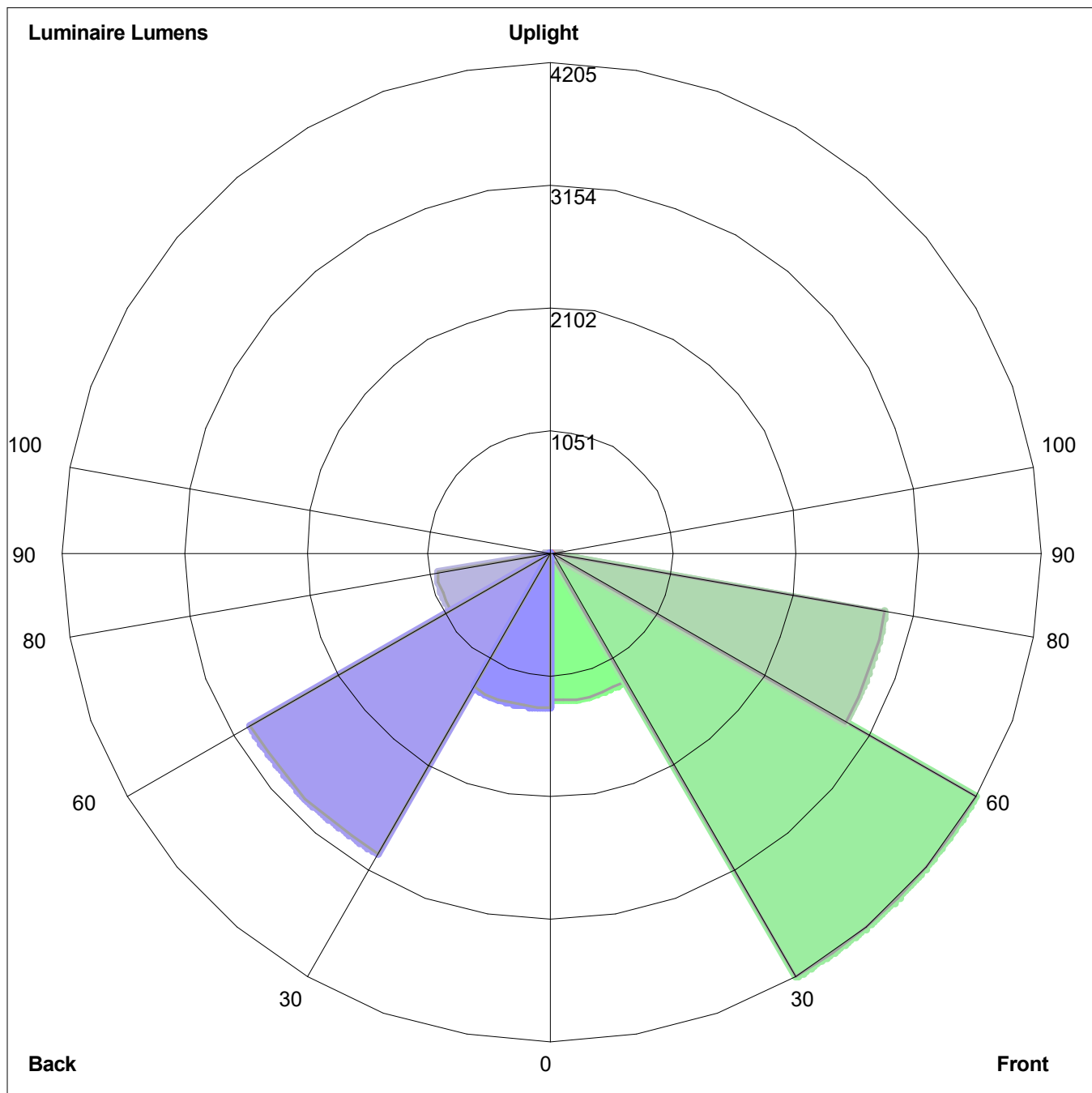


Maximum Candela = 6601 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1274.3, Medium=4204.9, High=2911.2, Very High=88.8  
Back: Low=1334.4, Medium=2979.5, High=996.3, Very High=55.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2