



IES ROAD REPORT
PHOTOMETRIC FILENAME : HPG-13L-FT-40K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12230
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 10/22/2021
[TEST DATE] 09/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] HPG-13L-FT-40K8
[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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14412
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	106
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6872
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	6872
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	870 (6.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1326.5	N.A.	9.2
FM - Front-Medium (30-60)	4377.2	N.A.	30.4
FH - Front-High (60-80)	3030.5	N.A.	21.0
FVH - Front-Very High (80-90)	92.4	N.A.	0.6
BL - Back-Low (0-30)	1389.1	N.A.	9.6
BM - Back-Medium (30-60)	3101.6	N.A.	21.5
BH - Back-High (60-80)	1037.1	N.A.	7.2
BVH - Back-Very High (80-90)	57.8	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	14412.2	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	3268	3268	3268	3268	3268	3268	3268	3268	3268	3268
2.5	3237	3246	3241	3244	3261	3286	3274	3276	3278	3284
5.0	3220	3234	3226	3230	3244	3272	3263	3271	3274	3283
7.5	3181	3193	3187	3197	3217	3246	3239	3245	3256	3271
10.0	3135	3148	3145	3153	3182	3218	3213	3227	3240	3264
12.5	3091	3105	3104	3117	3149	3190	3186	3207	3224	3250
15.0	3057	3070	3067	3085	3116	3162	3158	3184	3206	3241
17.5	3024	3041	3036	3053	3092	3136	3137	3166	3189	3227
20.0	3003	3024	3022	3040	3078	3122	3120	3151	3180	3217
22.5	2996	3014	3016	3040	3080	3121	3120	3146	3171	3208
25.0	2996	3010	3025	3050	3095	3133	3133	3157	3181	3209
27.5	3013	3026	3043	3071	3114	3155	3151	3174	3190	3217
30.0	3027	3046	3069	3098	3144	3177	3170	3185	3200	3231
32.5	3043	3059	3086	3127	3180	3213	3208	3212	3226	3255
35.0	3056	3070	3105	3162	3222	3258	3251	3254	3250	3264
37.5	3091	3103	3137	3210	3274	3312	3304	3293	3277	3260
40.0	3178	3189	3210	3283	3340	3380	3367	3349	3305	3262
42.5	3287	3293	3325	3391	3450	3476	3465	3436	3354	3296
45.0	3432	3440	3468	3532	3587	3616	3613	3566	3433	3346
47.5	3674	3680	3712	3756	3775	3811	3817	3749	3514	3411
50.0	4009	4028	4019	4057	4060	4082	4076	3941	3627	3495
52.5	4416	4441	4415	4449	4433	4448	4428	4202	3797	3599
55.0	4798	4827	4827	4897	4930	4933	4909	4579	4019	3694
57.5	5146	5152	5214	5323	5511	5499	5472	5082	4236	3793
60.0	5150	5199	5360	5592	6018	6143	6124	5527	4466	3903
62.5	4767	4861	5131	5524	6338	6722	6677	5906	4572	3811
65.0	4083	4139	4458	4998	6157	6872	6837	5989	4401	3439
67.5	3110	3147	3410	3972	5264	6279	6339	5691	3908	2781
70.0	2066	2118	2292	2795	3925	5095	5233	4840	3145	2005
72.5	1286	1273	1417	1753	2550	3628	3823	3731	2099	1210
75.0	768	785	863	1098	1628	2291	2414	2355	1351	740
77.5	503	513	574	763	998	1407	1479	1373	821	395
80.0	341	349	367	524	695	835	870	711	369	199
82.5	213	211	239	368	434	366	338	237	166	141
85.0	120	122	135	265	248	107	94	72	74	91
87.5	55	57	66	119	114	38	37	33	33	37
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	3268	3268	3268	3268	3268	3268	3268	3268	3268	3268
2.5	3303	3313	3310	3292	3283	3283	3294	3266	3255	3254
5.0	3308	3315	3315	3300	3292	3289	3301	3281	3270	3268
7.5	3305	3316	3316	3303	3297	3300	3312	3283	3270	3262
10.0	3296	3312	3315	3305	3305	3301	3303	3283	3274	3277
12.5	3293	3306	3312	3305	3301	3295	3306	3299	3298	3303
15.0	3287	3303	3310	3302	3293	3299	3320	3313	3316	3325
17.5	3280	3300	3308	3299	3280	3294	3328	3326	3326	3337
20.0	3276	3299	3305	3288	3264	3294	3331	3332	3335	3346
22.5	3270	3294	3300	3270	3255	3292	3329	3334	3338	3356
25.0	3263	3282	3286	3239	3235	3284	3325	3328	3336	3354
27.5	3260	3270	3265	3200	3200	3258	3302	3316	3328	3342

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CANDELA TABULATION - (Cont.)

30.0	3262	3265	3251	3159	3161	3219	3268	3287	3304	3320
32.5	3262	3255	3226	3112	3109	3169	3221	3241	3263	3286
35.0	3251	3230	3191	3053	3048	3114	3165	3185	3210	3235
37.5	3225	3194	3147	2980	2977	3042	3093	3105	3129	3161
40.0	3204	3159	3092	2907	2891	2947	2991	3002	3029	3067
42.5	3204	3140	3057	2829	2790	2837	2866	2885	2922	2991
45.0	3230	3142	3038	2754	2669	2707	2730	2746	2788	2956
47.5	3270	3160	3030	2677	2530	2558	2574	2590	2665	2945
50.0	3334	3197	3031	2599	2379	2394	2416	2450	2618	2753
52.5	3405	3238	3035	2516	2215	2213	2267	2371	2456	2494
55.0	3447	3246	2999	2404	2036	2047	2117	2126	2229	2267
57.5	3526	3298	2997	2276	1816	1862	1893	1953	1982	2022
60.0	3609	3366	3024	2220	1625	1638	1702	1760	1741	1762
62.5	3451	3171	2808	2059	1484	1408	1485	1563	1528	1516
65.0	3056	2700	2292	1701	1224	1222	1269	1385	1343	1343
67.5	2423	2136	1798	1405	934	1009	1142	1276	1172	1181
70.0	1724	1513	1278	1188	783	776	922	932	975	1024
72.5	935	837	730	855	666	638	659	763	791	859
75.0	493	443	439	531	441	453	485	569	597	702
77.5	254	239	266	318	300	274	310	380	414	532
80.0	151	144	162	194	181	182	214	229	258	347
82.5	119	112	111	131	127	126	133	146	152	202
85.0	76	72	73	79	81	81	83	86	97	104
87.5	39	37	39	42	44	44	43	47	42	49
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

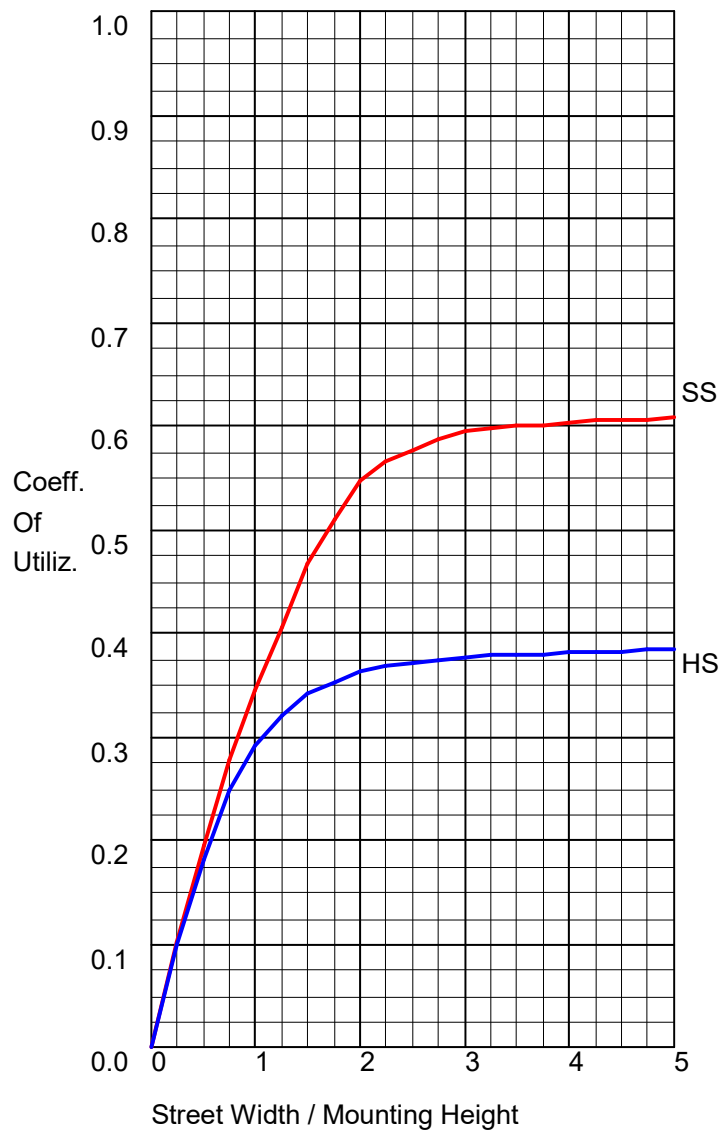
	<u>175.0</u>	<u>180.0</u>
0.0	3268	3268
2.5	3252	3239
5.0	3271	3257
7.5	3265	3254
10.0	3281	3267
12.5	3310	3297
15.0	3332	3318
17.5	3348	3333
20.0	3361	3352
22.5	3372	3361
25.0	3373	3361
27.5	3363	3356
30.0	3340	3336
32.5	3305	3294
35.0	3256	3243
37.5	3184	3175
40.0	3115	3111
42.5	3110	3125
45.0	3213	3246
47.5	3125	3131
50.0	2795	2793
52.5	2518	2519
55.0	2292	2298
57.5	2038	2029
60.0	1755	1757
62.5	1543	1552
65.0	1385	1394

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CANDELA TABULATION - (Cont.)

67.5	1244	1256
70.0	1094	1098
72.5	934	939
75.0	792	807
77.5	633	641
80.0	462	485
82.5	305	320
85.0	165	170
87.5	75	78
90.0	0	0

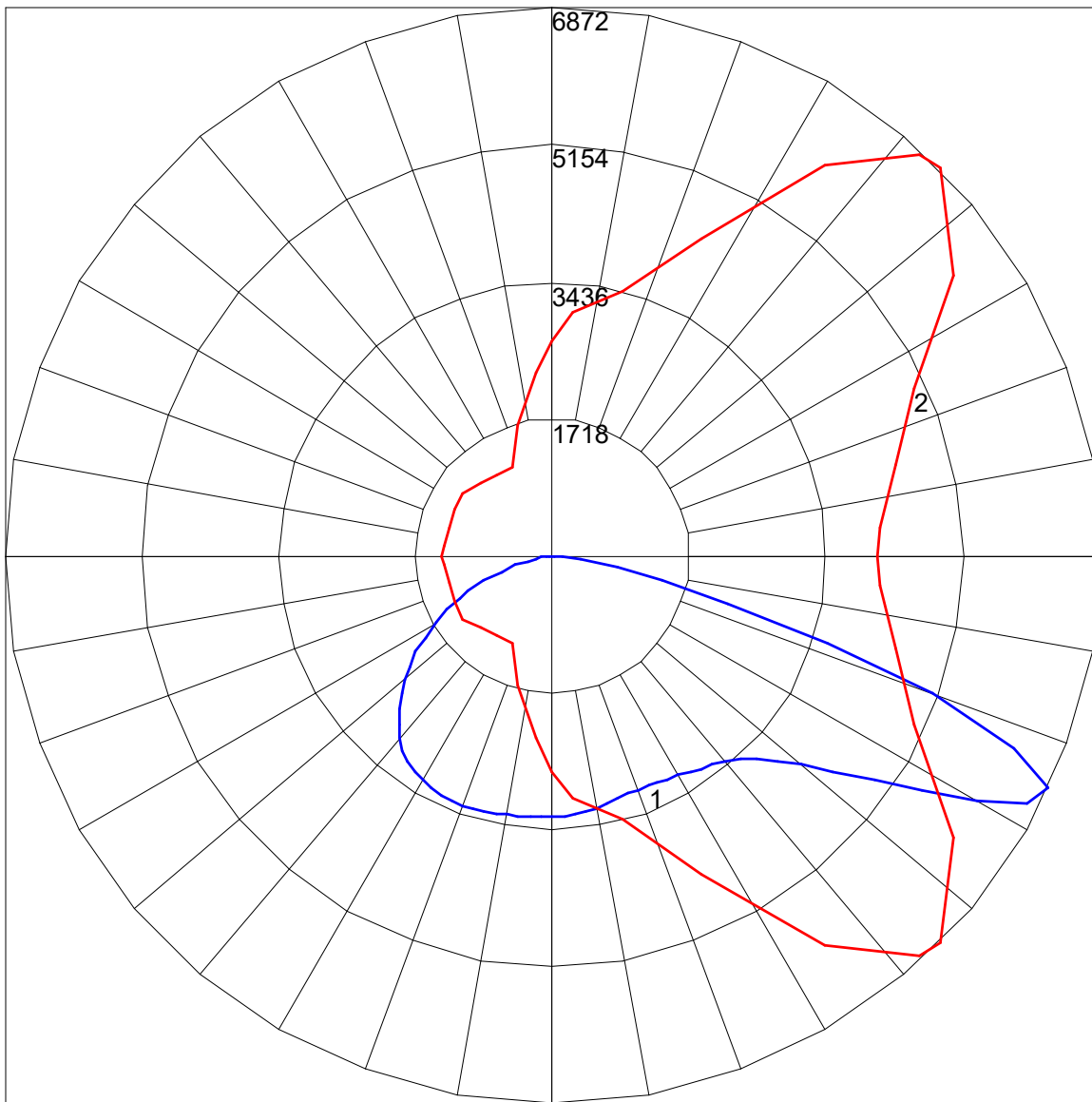
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

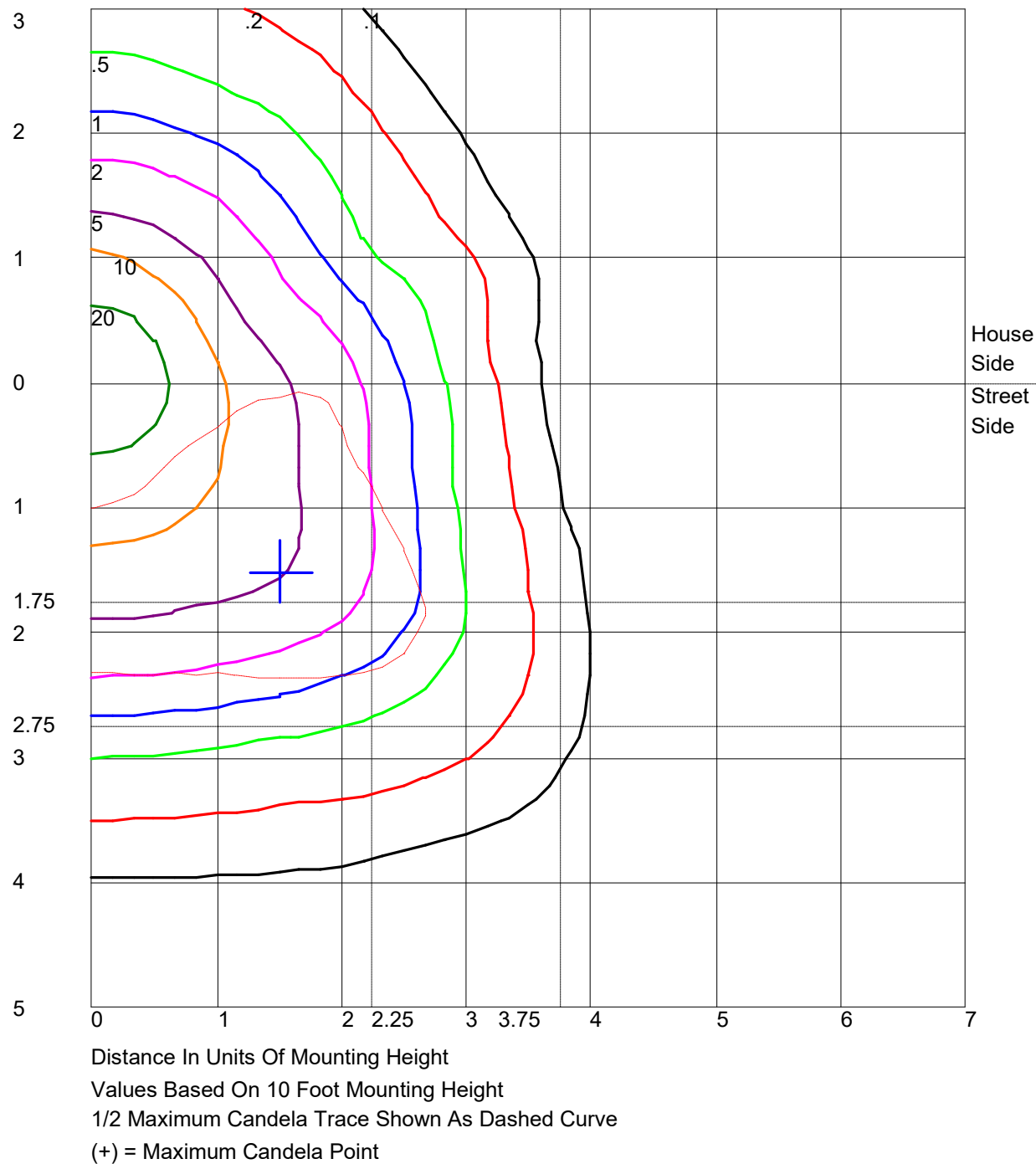
	Lumens	Percent Of Luminaire
Downward Street Side	8826.7	61.2
Downward House Side	5585.6	38.8
Downward Total	14412.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14412.3	100.0

POLAR GRAPH

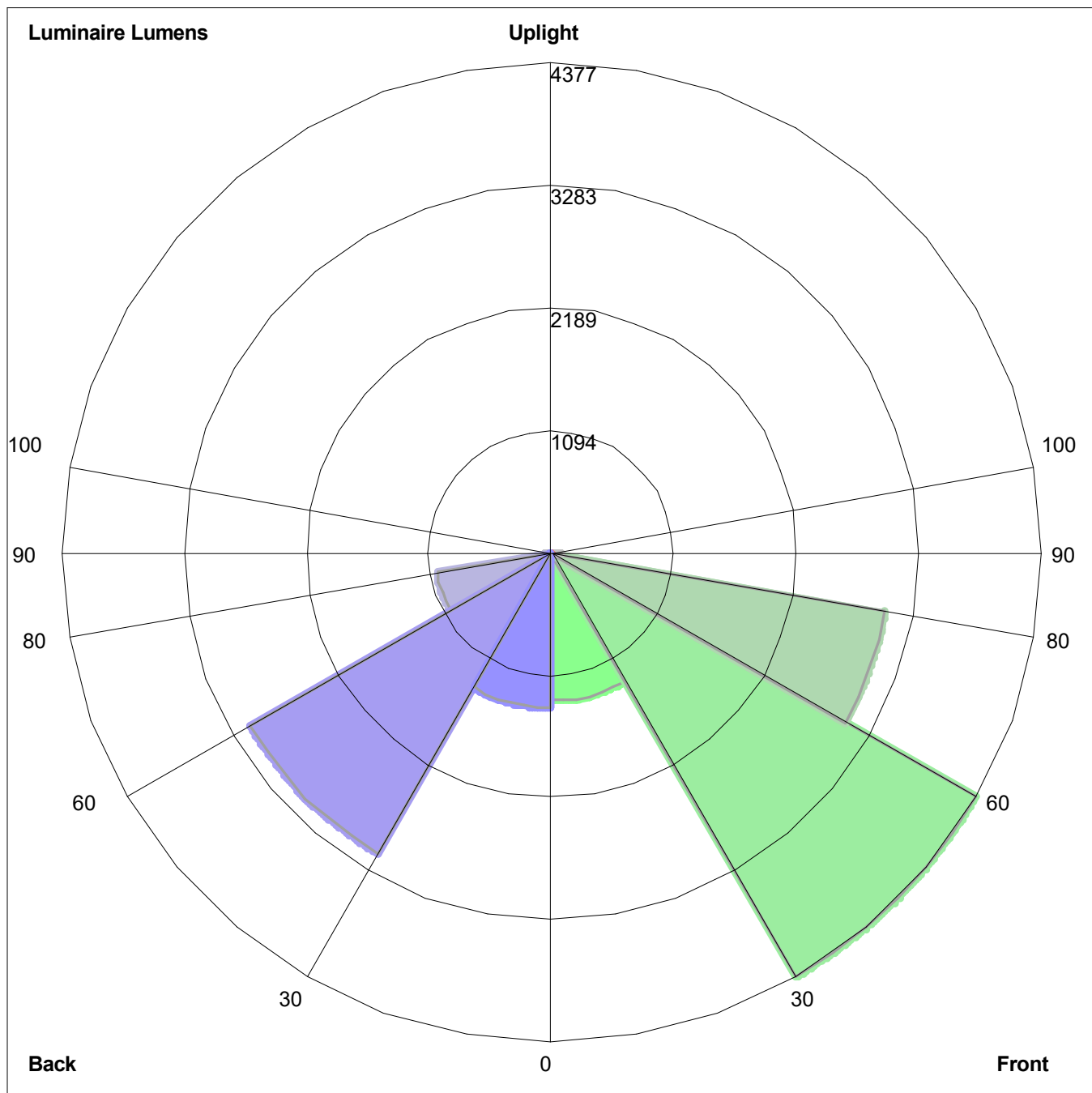


Maximum Candela = 6872 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1326.5, Medium=4377.2, High=3030.5, Very High=92.4
Back: Low=1389.1, Medium=3101.6, High=1037.1, Very High=57.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3