



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-13L-5R-40K8.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-12912  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 10/22/2021  
[TESTDATE] 08/25/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] HPG-13L-5R-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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14460
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	4149
Maximum Candela Angle	45H 62.5V
Maximum Candela (<90 Degrees Vertical)	4149
Maximum Candela Angle (<90 Degrees Vertical)	45H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	724 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1359.7	N.A.	9.4
FM - Front-Medium (30-60)	3848.7	N.A.	26.6
FH - Front-High (60-80)	1943.4	N.A.	13.4
FVH - Front-Very High (80-90)	78.1	N.A.	0.5
BL - Back-Low (0-30)	1359.7	N.A.	9.4
BM - Back-Medium (30-60)	3848.7	N.A.	26.6
BH - Back-High (60-80)	1943.4	N.A.	13.4
BVH - Back-Very High (80-90)	78.1	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	14459.8	N.A.	100.0
BUG Rating	B3-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>	<u><b>85</b></u>
<b>0.0</b>	3262	3262	3262	3262	3262	3262	3262	3262	3262	3262
<b>2.5</b>	3248	3248	3250	3245	3262	3270	3273	3281	3295	3296
<b>5.0</b>	3238	3241	3241	3237	3256	3266	3276	3285	3299	3298
<b>7.5</b>	3220	3223	3227	3227	3251	3261	3269	3280	3301	3300
<b>10.0</b>	3196	3200	3203	3202	3224	3242	3260	3270	3297	3295
<b>12.5</b>	3184	3189	3190	3190	3213	3224	3239	3263	3290	3290
<b>15.0</b>	3177	3177	3178	3180	3202	3218	3223	3251	3283	3289
<b>17.5</b>	3180	3177	3175	3172	3194	3207	3214	3229	3276	3291
<b>20.0</b>	3180	3181	3181	3178	3191	3199	3206	3213	3269	3296
<b>22.5</b>	3191	3195	3193	3187	3203	3202	3201	3209	3261	3302
<b>25.0</b>	3208	3215	3214	3205	3220	3215	3205	3210	3254	3302
<b>27.5</b>	3226	3231	3237	3232	3241	3232	3216	3210	3245	3302
<b>30.0</b>	3244	3245	3257	3254	3262	3245	3222	3212	3243	3313
<b>32.5</b>	3242	3250	3272	3275	3279	3257	3235	3222	3247	3322
<b>35.0</b>	3239	3245	3274	3289	3296	3275	3250	3229	3244	3327
<b>37.5</b>	3237	3245	3272	3292	3307	3289	3259	3222	3228	3322
<b>40.0</b>	3228	3237	3257	3288	3309	3294	3263	3202	3203	3309
<b>42.5</b>	3277	3269	3261	3288	3308	3296	3263	3190	3176	3290
<b>45.0</b>	3460	3441	3321	3303	3315	3295	3272	3176	3155	3277
<b>47.5</b>	3487	3490	3503	3349	3340	3308	3280	3155	3146	3291
<b>50.0</b>	3504	3500	3508	3475	3396	3341	3298	3146	3162	3330
<b>52.5</b>	3544	3548	3564	3616	3487	3428	3339	3149	3158	3334
<b>55.0</b>	3579	3589	3640	3669	3547	3538	3426	3123	3139	3346
<b>57.5</b>	3544	3569	3696	3749	3717	3698	3491	3093	3163	3427
<b>60.0</b>	3370	3396	3596	3709	3892	3941	3520	3052	3101	3362
<b>62.5</b>	3026	3058	3225	3435	3905	4149	3530	2915	2826	3006
<b>65.0</b>	2537	2574	2707	2998	3600	4020	3454	2657	2449	2513
<b>67.5</b>	1938	1957	2091	2401	2959	3500	3181	2223	1980	1901
<b>70.0</b>	1405	1419	1502	1778	2224	2790	2639	1664	1472	1244
<b>72.5</b>	963	979	1033	1247	1664	2119	1902	1114	887	664
<b>75.0</b>	691	707	727	864	1216	1669	1287	806	596	424
<b>77.5</b>	494	509	507	584	910	1259	952	519	308	229
<b>80.0</b>	344	338	328	382	677	724	545	260	205	170
<b>82.5</b>	188	190	184	272	373	329	202	145	140	118
<b>85.0</b>	91	91	99	158	241	118	72	80	91	76
<b>87.5</b>	46	46	57	55	77	30	25	27	31	36
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

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

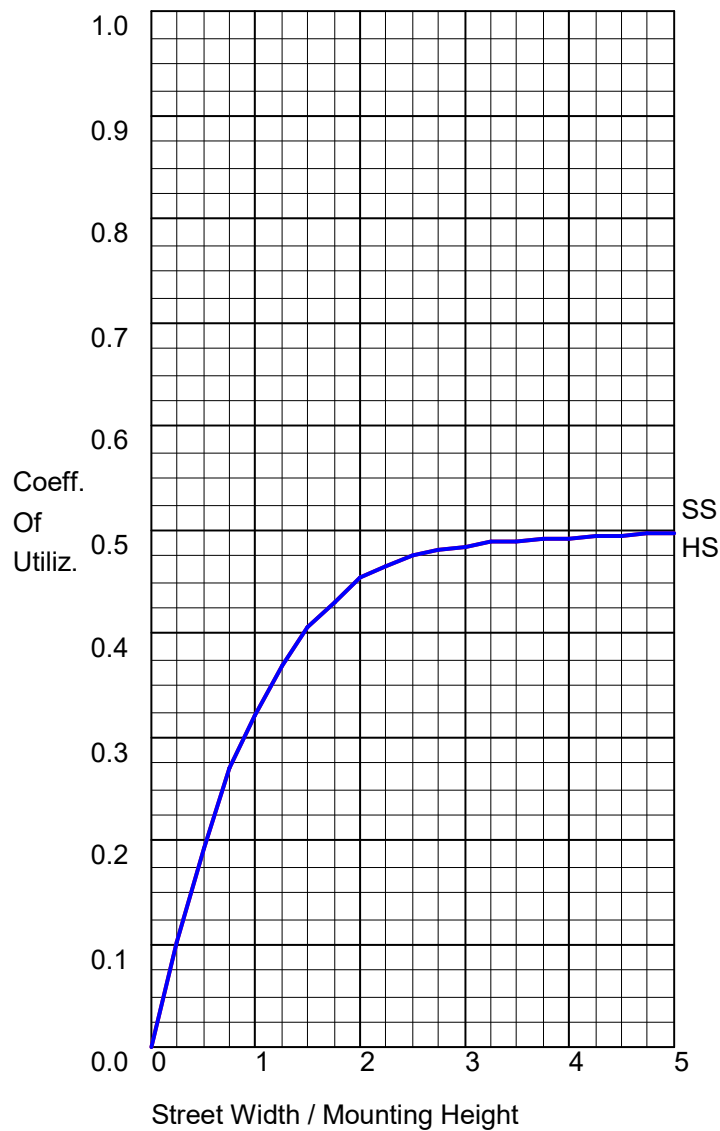
	<u><b>90</b></u>
<b>0.0</b>	3262
<b>2.5</b>	3293
<b>5.0</b>	3297
<b>7.5</b>	3298
<b>10.0</b>	3292
<b>12.5</b>	3291
<b>15.0</b>	3287
<b>17.5</b>	3287
<b>20.0</b>	3296
<b>22.5</b>	3299
<b>25.0</b>	3305
<b>27.5</b>	3311

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	3321
<b>32.5</b>	3334
<b>35.0</b>	3337
<b>37.5</b>	3336
<b>40.0</b>	3327
<b>42.5</b>	3309
<b>45.0</b>	3296
<b>47.5</b>	3318
<b>50.0</b>	3360
<b>52.5</b>	3360
<b>55.0</b>	3372
<b>57.5</b>	3459
<b>60.0</b>	3433
<b>62.5</b>	3111
<b>65.0</b>	2584
<b>67.5</b>	1915
<b>70.0</b>	1209
<b>72.5</b>	573
<b>75.0</b>	368
<b>77.5</b>	210
<b>80.0</b>	159
<b>82.5</b>	107
<b>85.0</b>	70
<b>87.5</b>	31
<b>90.0</b>	0

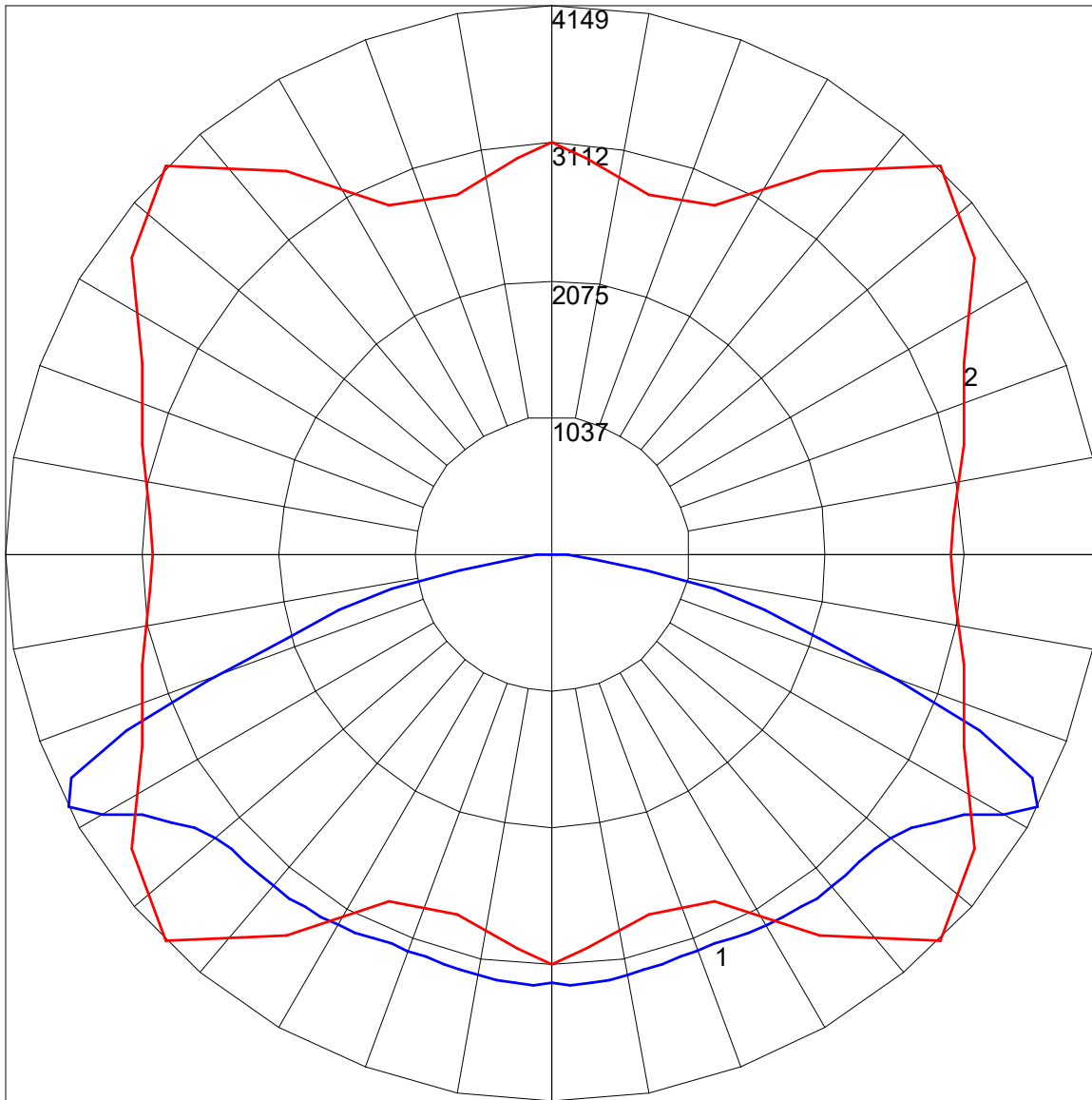
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

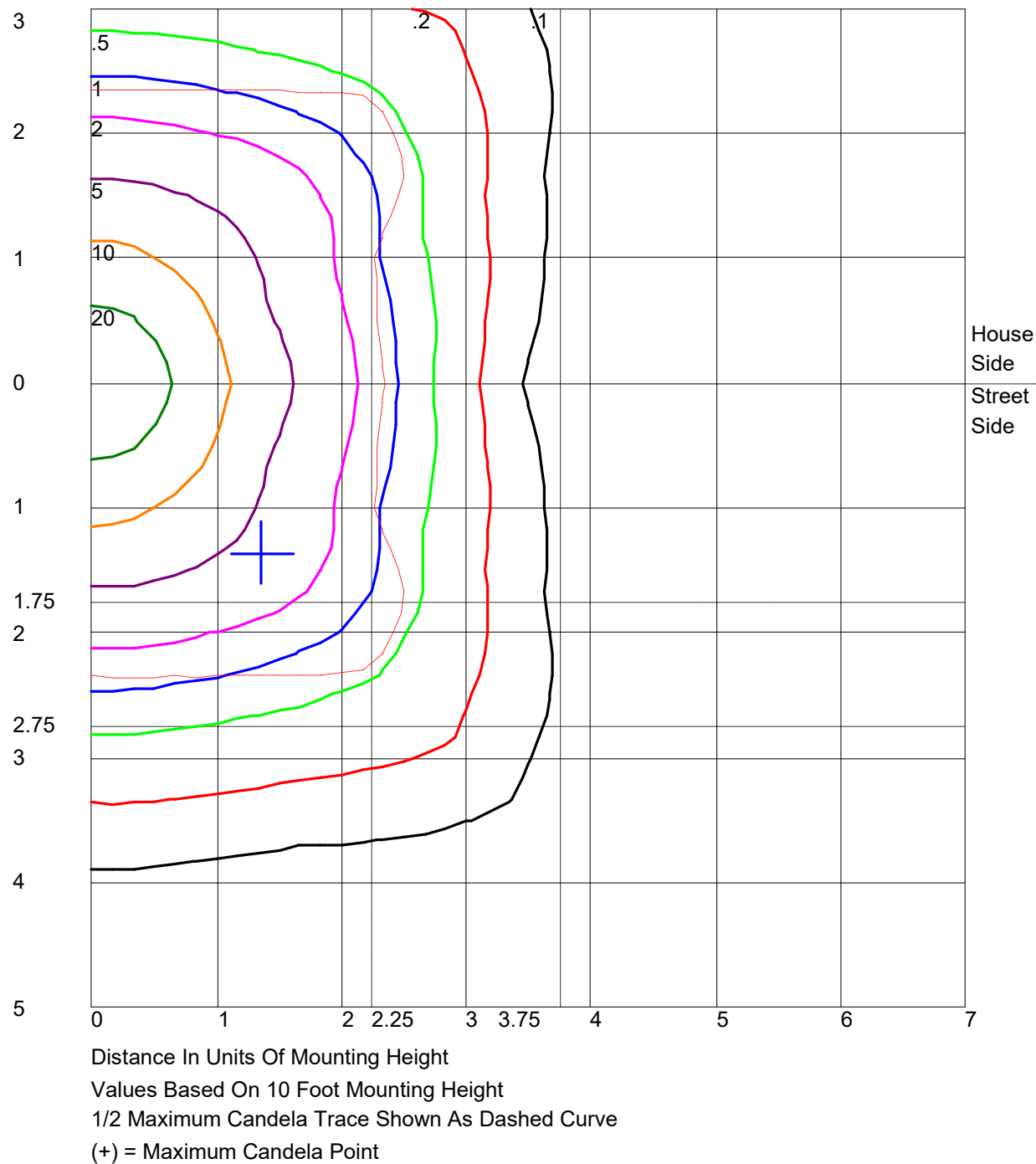
	Lumens	Percent Of Luminaire
Downward Street Side	7229.9	50.0
Downward House Side	7229.9	50.0
Downward Total	14459.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14459.8	100.0

POLAR GRAPH

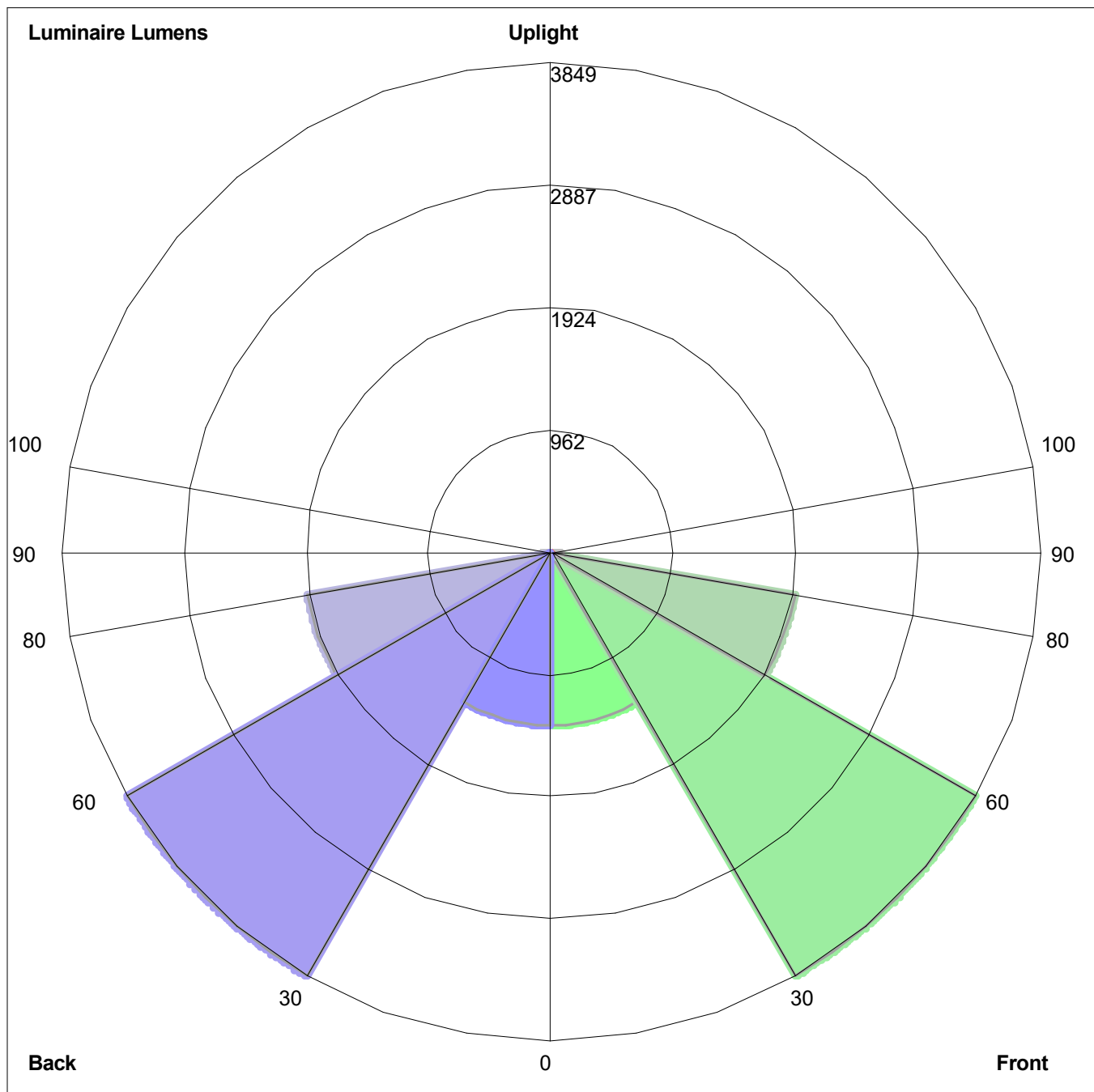


Maximum Candela = 4149 Located At Horizontal Angle = 45, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1359.7, Medium=3848.7, High=1943.4, Very High=78.1  
Back: Low=1359.7, Medium=3848.7, High=1943.4, Very High=78.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2