



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-23L-5Q-30K8.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-12892  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 10/22/2021  
[TEST DATE] 08/18/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] HPG-23L-5Q-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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21117
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	198
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10290
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	10290
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	1718 (8.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1045.4	N.A.	5.0
FM - Front-Medium (30-60)	4897.1	N.A.	23.2
FH - Front-High (60-80)	4441.8	N.A.	21.0
FVH - Front-Very High (80-90)	174.4	N.A.	0.8
BL - Back-Low (0-30)	1045.4	N.A.	5.0
BM - Back-Medium (30-60)	4897.1	N.A.	23.2
BH - Back-High (60-80)	4441.8	N.A.	21.0
BVH - Back-Very High (80-90)	174.4	N.A.	0.8
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	21117.2	N.A.	100.0
BUG Rating	B4-U0-G2		

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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	2415	2415	2415	2415	2415	2415	2415	2415	2415	2415
2.5	2422	2420	2417	2414	2420	2422	2422	2419	2426	2424
5.0	2413	2410	2412	2409	2407	2403	2403	2403	2409	2409
7.5	2394	2393	2395	2383	2388	2396	2390	2383	2390	2388
10.0	2379	2378	2376	2357	2351	2340	2351	2360	2374	2375
12.5	2367	2368	2360	2345	2326	2321	2330	2350	2365	2372
15.0	2369	2371	2355	2329	2320	2329	2325	2337	2367	2377
17.5	2397	2395	2366	2327	2331	2338	2336	2340	2381	2407
20.0	2454	2452	2402	2355	2363	2365	2373	2375	2420	2457
22.5	2531	2532	2463	2424	2425	2427	2437	2441	2475	2533
25.0	2626	2623	2542	2519	2524	2531	2533	2534	2555	2623
27.5	2723	2715	2638	2631	2654	2663	2663	2648	2645	2713
30.0	2833	2822	2745	2761	2790	2793	2793	2767	2750	2824
32.5	2958	2945	2870	2921	2934	2930	2930	2913	2867	2937
35.0	3075	3061	2996	3070	3095	3085	3093	3053	2982	3049
37.5	3194	3179	3110	3208	3265	3261	3257	3181	3086	3179
40.0	3314	3303	3218	3335	3441	3449	3428	3303	3189	3307
42.5	3511	3468	3333	3466	3614	3633	3612	3444	3320	3492
45.0	3875	3819	3538	3613	3800	3822	3822	3623	3539	3884
47.5	4067	4018	3894	3810	4026	4047	4082	3843	3962	4125
50.0	4382	4331	4118	4196	4330	4428	4408	4280	4233	4471
52.5	4825	4779	4544	4626	4843	5003	4943	4763	4660	4915
55.0	5540	5490	5181	5135	5485	5777	5561	5223	5258	5548
57.5	6292	6251	5962	5866	6402	6684	6394	5849	5926	6217
60.0	6750	6705	6523	6571	7446	7859	7308	6479	6476	6678
62.5	6573	6432	6394	6799	8263	9252	8071	6722	6360	6405
65.0	5672	5637	5729	6397	8490	10290	8359	6341	5663	5580
67.5	4421	4537	4799	5641	8136	9806	7983	5498	4676	4423
70.0	2768	3005	3335	4227	6885	8235	6637	3973	3213	2895
72.5	1407	1657	1988	2704	4998	6287	4752	2529	1891	1599
75.0	777	904	1162	1666	3062	4250	3035	1602	1148	888
77.5	530	574	682	1110	2078	3068	2130	1101	683	572
80.0	381	391	426	657	1425	1718	1499	671	437	392
82.5	256	254	281	483	669	768	721	483	289	254
85.0	139	150	189	326	444	230	467	308	193	152
87.5	79	88	110	138	194	62	178	117	110	87
90.0	0	0	0	0	0	0	0	0	0	0

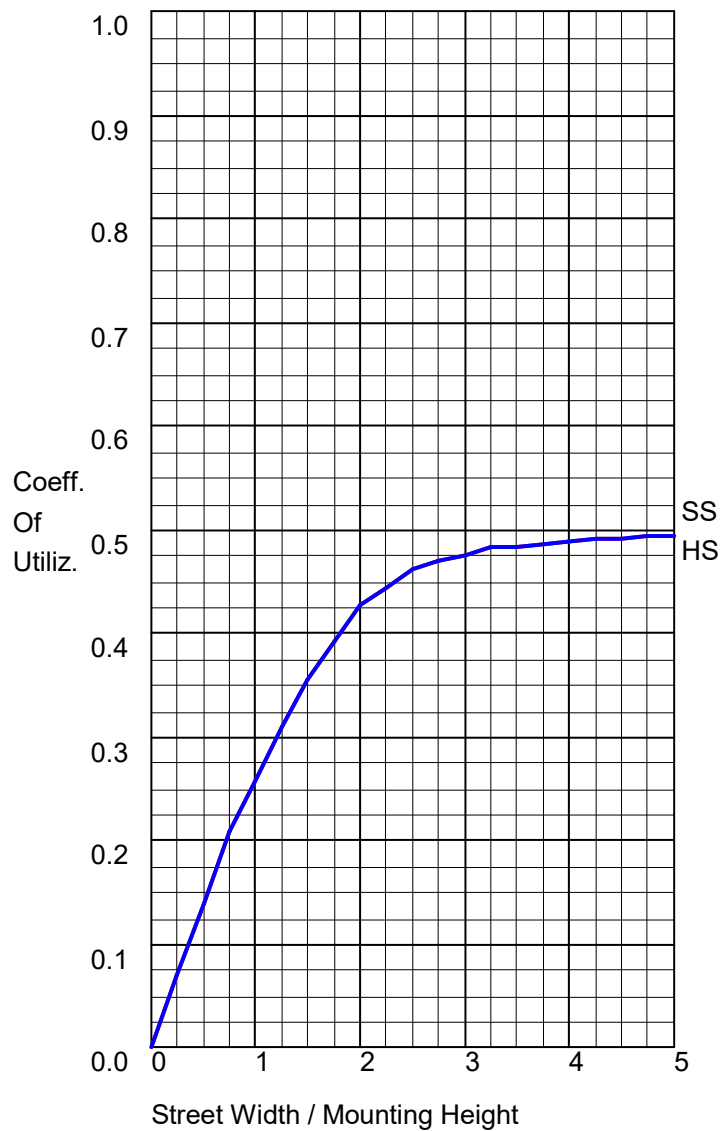
<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u>90</u>
0.0	2415
2.5	2423
5.0	2407
7.5	2387
10.0	2374
12.5	2370
15.0	2375
17.5	2405
20.0	2454
22.5	2527
25.0	2618
27.5	2715

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	2831
<b>32.5</b>	2951
<b>35.0</b>	3064
<b>37.5</b>	3191
<b>40.0</b>	3322
<b>42.5</b>	3522
<b>45.0</b>	3930
<b>47.5</b>	4155
<b>50.0</b>	4490
<b>52.5</b>	4908
<b>55.0</b>	5570
<b>57.5</b>	6228
<b>60.0</b>	6693
<b>62.5</b>	6442
<b>65.0</b>	5565
<b>67.5</b>	4338
<b>70.0</b>	2732
<b>72.5</b>	1419
<b>75.0</b>	772
<b>77.5</b>	517
<b>80.0</b>	378
<b>82.5</b>	254
<b>85.0</b>	141
<b>87.5</b>	80
<b>90.0</b>	0

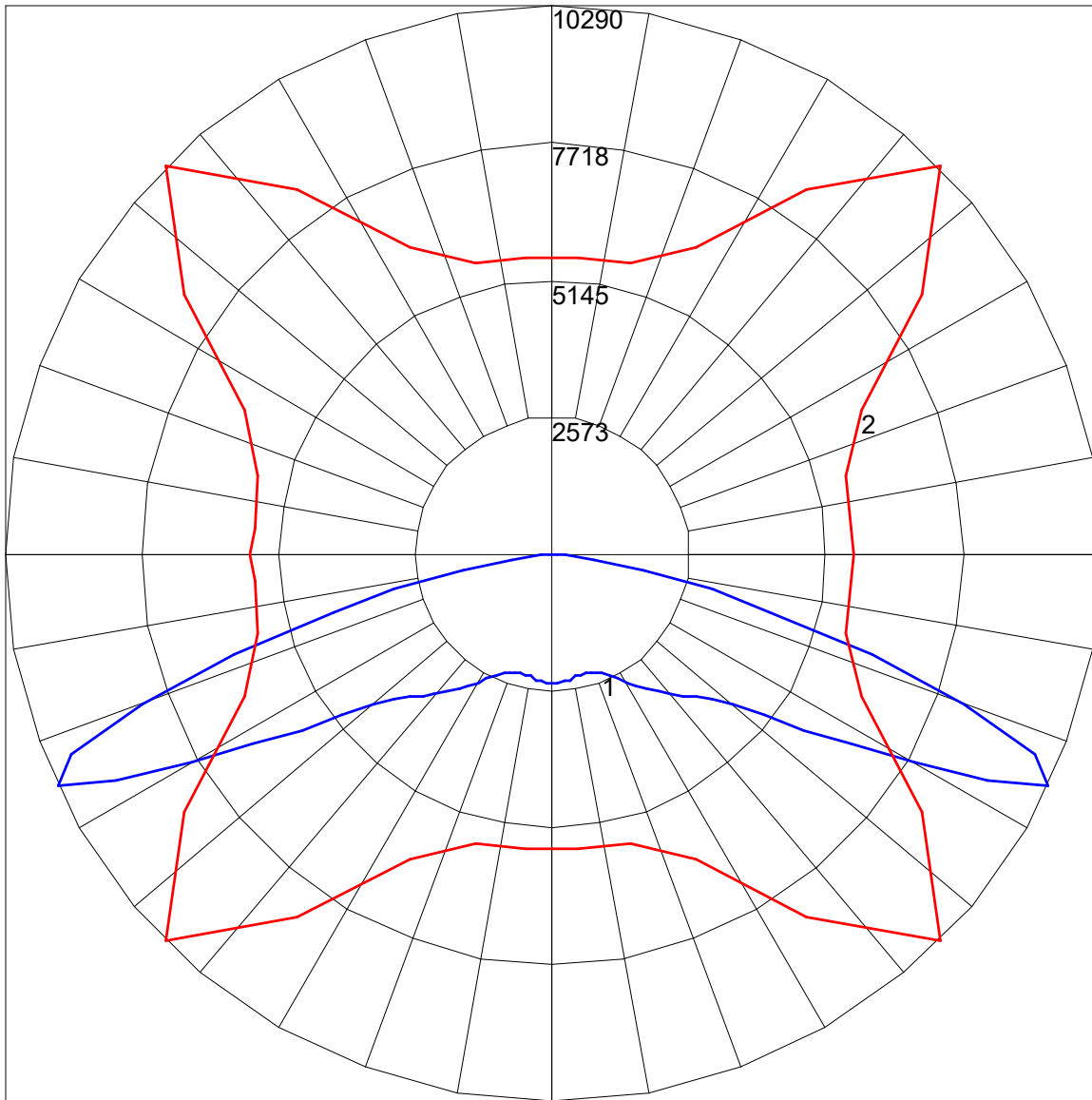
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

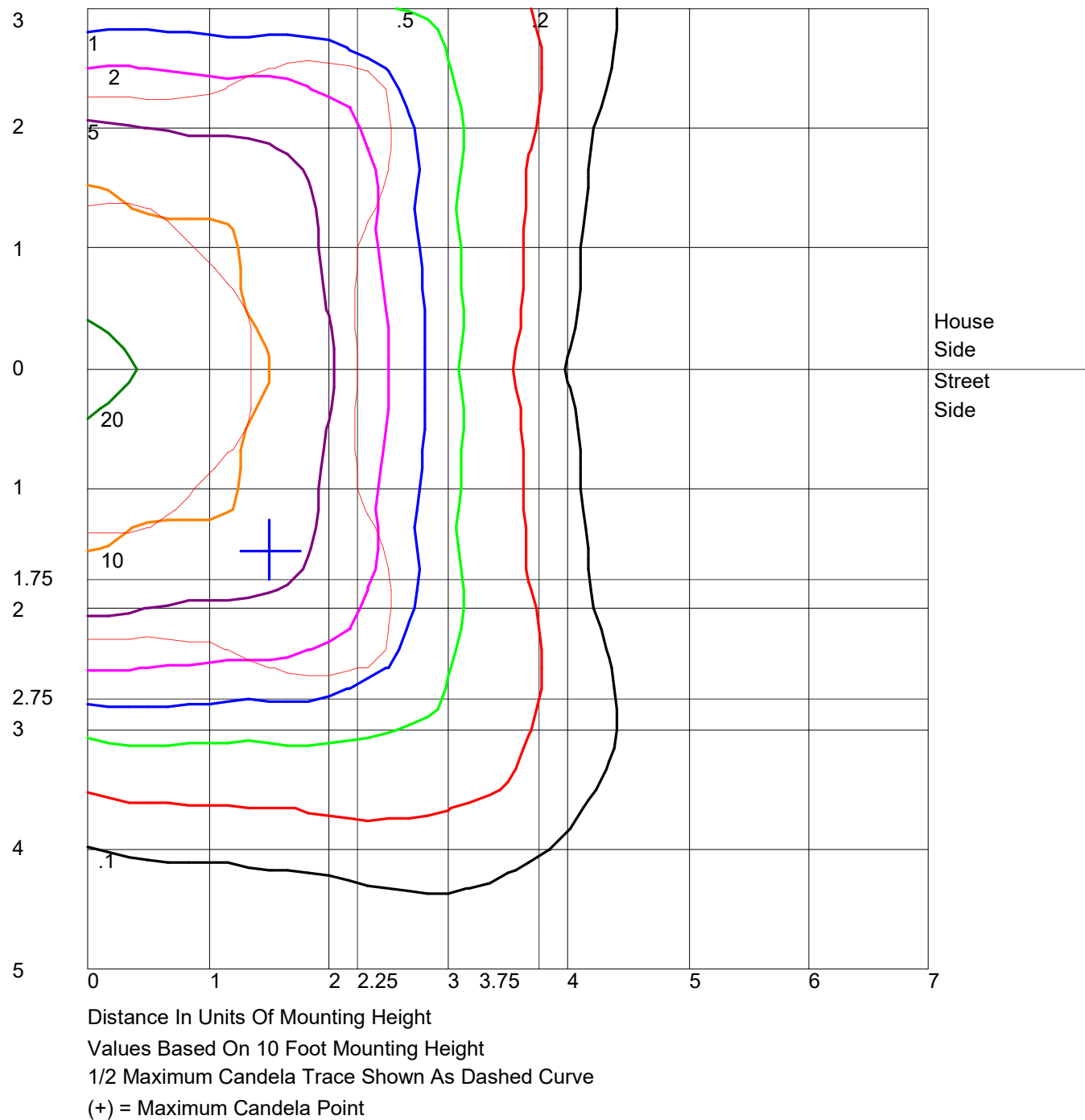
	Lumens	Percent Of Luminaire
Downward Street Side	10558.5	50.0
Downward House Side	10558.5	50.0
Downward Total	21117.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21117.0	100.0

POLAR GRAPH

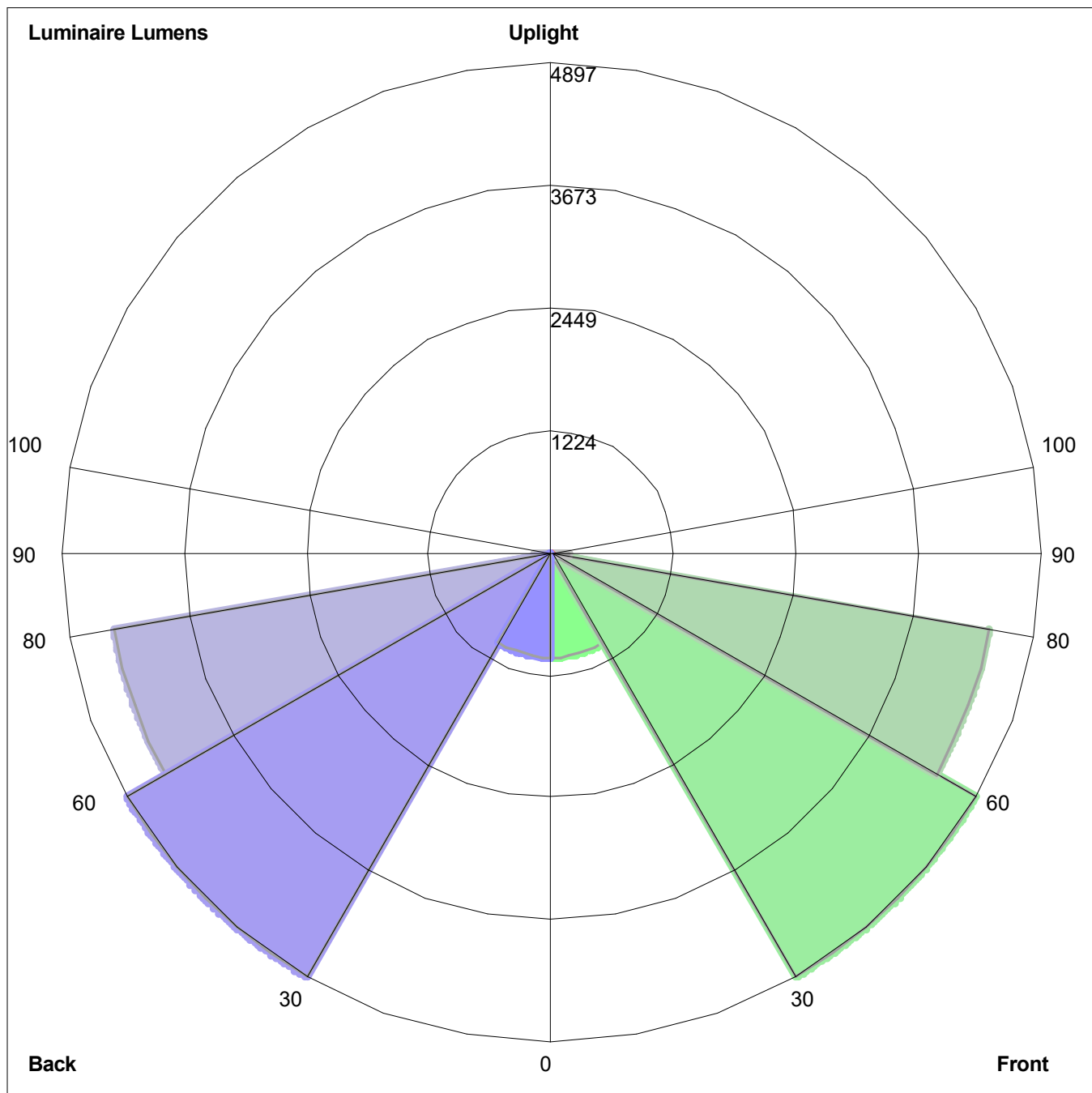


Maximum Candela = 10290 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1045.4, Medium=4897.1, High=4441.8, Very High=174.4  
Back: Low=1045.4, Medium=4897.1, High=4441.8, Very High=174.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2