



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-10L-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-10L-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	10670
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	79
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5087
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	5087
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	645 (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)	982.1	N.A.	9.2
FM - Front-Medium (30-60)	3240.5	N.A.	30.4
FH - Front-High (60-80)	2243.6	N.A.	21.0
FVH - Front-Very High (80-90)	68.4	N.A.	0.6
BL - Back-Low (0-30)	1028.4	N.A.	9.6
BM - Back-Medium (30-60)	2296.2	N.A.	21.5
BH - Back-High (60-80)	767.8	N.A.	7.2
BVH - Back-Very High (80-90)	42.8	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	10669.8	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>0.0</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>	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419
<b>2.5</b>	2397	2403	2399	2402	2414	2432	2424	2426	2427	2431
<b>5.0</b>	2383	2394	2388	2392	2402	2423	2416	2422	2424	2430
<b>7.5</b>	2355	2363	2359	2367	2382	2403	2398	2403	2410	2422
<b>10.0</b>	2321	2330	2329	2334	2356	2382	2379	2389	2399	2416
<b>12.5</b>	2288	2299	2298	2307	2331	2361	2358	2375	2387	2406
<b>15.0</b>	2263	2273	2271	2284	2306	2341	2337	2357	2373	2399
<b>17.5</b>	2239	2251	2248	2260	2289	2322	2322	2344	2361	2389
<b>20.0</b>	2224	2239	2237	2251	2279	2311	2310	2332	2355	2381
<b>22.5</b>	2218	2231	2233	2251	2281	2310	2309	2330	2348	2375
<b>25.0</b>	2218	2229	2239	2258	2291	2319	2320	2337	2355	2376
<b>27.5</b>	2231	2240	2253	2274	2306	2336	2332	2350	2361	2381
<b>30.0</b>	2240	2255	2272	2293	2328	2352	2347	2358	2369	2392
<b>32.5</b>	2253	2264	2284	2315	2355	2379	2375	2378	2388	2410
<b>35.0</b>	2262	2273	2299	2341	2385	2412	2407	2408	2406	2416
<b>37.5</b>	2288	2297	2322	2377	2424	2452	2446	2438	2427	2413
<b>40.0</b>	2353	2361	2377	2430	2473	2502	2493	2479	2447	2415
<b>42.5</b>	2433	2438	2461	2510	2554	2574	2566	2544	2483	2440
<b>45.0</b>	2541	2547	2567	2615	2655	2677	2674	2640	2542	2477
<b>47.5</b>	2720	2724	2748	2781	2794	2821	2825	2775	2601	2525
<b>50.0</b>	2968	2982	2976	3003	3006	3022	3017	2917	2685	2588
<b>52.5</b>	3269	3287	3268	3293	3282	3293	3278	3111	2811	2664
<b>55.0</b>	3552	3574	3574	3625	3649	3652	3634	3390	2976	2735
<b>57.5</b>	3810	3814	3860	3941	4080	4071	4051	3762	3136	2808
<b>60.0</b>	3813	3849	3968	4140	4455	4548	4533	4092	3306	2890
<b>62.5</b>	3529	3599	3799	4090	4693	4977	4943	4372	3385	2821
<b>65.0</b>	3023	3064	3301	3700	4558	5087	5062	4433	3258	2546
<b>67.5</b>	2303	2330	2525	2940	3897	4648	4694	4213	2893	2059
<b>70.0</b>	1529	1568	1696	2069	2906	3772	3874	3583	2328	1484
<b>72.5</b>	952	942	1049	1298	1888	2686	2830	2762	1554	895
<b>75.0</b>	569	581	639	813	1206	1696	1788	1744	1001	548
<b>77.5</b>	373	380	426	565	739	1041	1095	1016	608	292
<b>80.0</b>	253	258	272	388	514	618	645	526	274	147
<b>82.5</b>	158	157	177	273	322	271	250	175	123	105
<b>85.0</b>	88	90	100	196	183	80	69	53	55	67
<b>87.5</b>	40	42	49	88	85	28	27	25	25	28
<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>	2419	2419	2419	2419	2419	2419	2419	2419	2419	2419
<b>2.5</b>	2446	2452	2451	2437	2430	2430	2439	2418	2410	2409
<b>5.0</b>	2449	2454	2454	2443	2437	2435	2444	2429	2421	2420
<b>7.5</b>	2447	2455	2454	2446	2441	2443	2452	2430	2421	2415
<b>10.0</b>	2440	2452	2454	2447	2447	2444	2445	2430	2424	2426
<b>12.5</b>	2438	2448	2452	2447	2444	2439	2448	2442	2442	2445
<b>15.0</b>	2433	2445	2451	2445	2438	2442	2458	2453	2454	2461
<b>17.5</b>	2428	2444	2449	2443	2428	2439	2464	2463	2463	2470
<b>20.0</b>	2425	2442	2447	2434	2417	2439	2466	2467	2469	2477
<b>22.5</b>	2421	2439	2444	2421	2409	2437	2465	2468	2472	2484
<b>25.0</b>	2416	2429	2432	2398	2395	2431	2461	2464	2470	2483
<b>27.5</b>	2413	2421	2418	2369	2369	2412	2445	2454	2464	2475

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**CANDELA TABULATION - (Cont.)**

30.0	2415	2417	2406	2338	2340	2383	2419	2433	2446	2458
32.5	2415	2409	2388	2304	2302	2347	2384	2400	2416	2432
35.0	2407	2391	2362	2260	2257	2306	2343	2358	2377	2395
37.5	2387	2365	2330	2206	2204	2252	2290	2299	2317	2340
40.0	2372	2338	2289	2152	2140	2182	2214	2223	2242	2271
42.5	2373	2325	2263	2094	2065	2100	2122	2136	2163	2214
45.0	2392	2326	2249	2038	1976	2004	2021	2033	2064	2188
47.5	2421	2339	2243	1982	1873	1893	1906	1917	1973	2180
50.0	2468	2367	2244	1924	1762	1772	1789	1814	1939	2038
52.5	2521	2398	2247	1863	1640	1639	1678	1755	1818	1846
55.0	2552	2403	2220	1780	1507	1516	1567	1574	1650	1678
57.5	2611	2442	2219	1685	1345	1379	1402	1446	1468	1498
60.0	2672	2492	2239	1644	1204	1212	1260	1304	1289	1305
62.5	2555	2348	2079	1525	1098	1042	1100	1158	1131	1123
65.0	2262	1999	1696	1259	906	905	939	1026	994	994
67.5	1793	1581	1331	1040	692	746	845	945	867	874
70.0	1276	1120	946	880	579	574	682	690	721	758
72.5	693	620	541	633	493	473	488	565	585	636
75.0	365	329	325	393	327	335	359	422	442	520
77.5	188	178	197	235	222	203	230	281	306	394
80.0	111	107	120	143	134	134	159	170	191	257
82.5	87	83	83	97	94	93	98	108	112	149
85.0	56	53	54	59	60	60	61	63	72	77
87.5	29	27	29	31	33	33	32	36	31	37
90.0	0	0	0	0	0	0	0	0	0	0

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

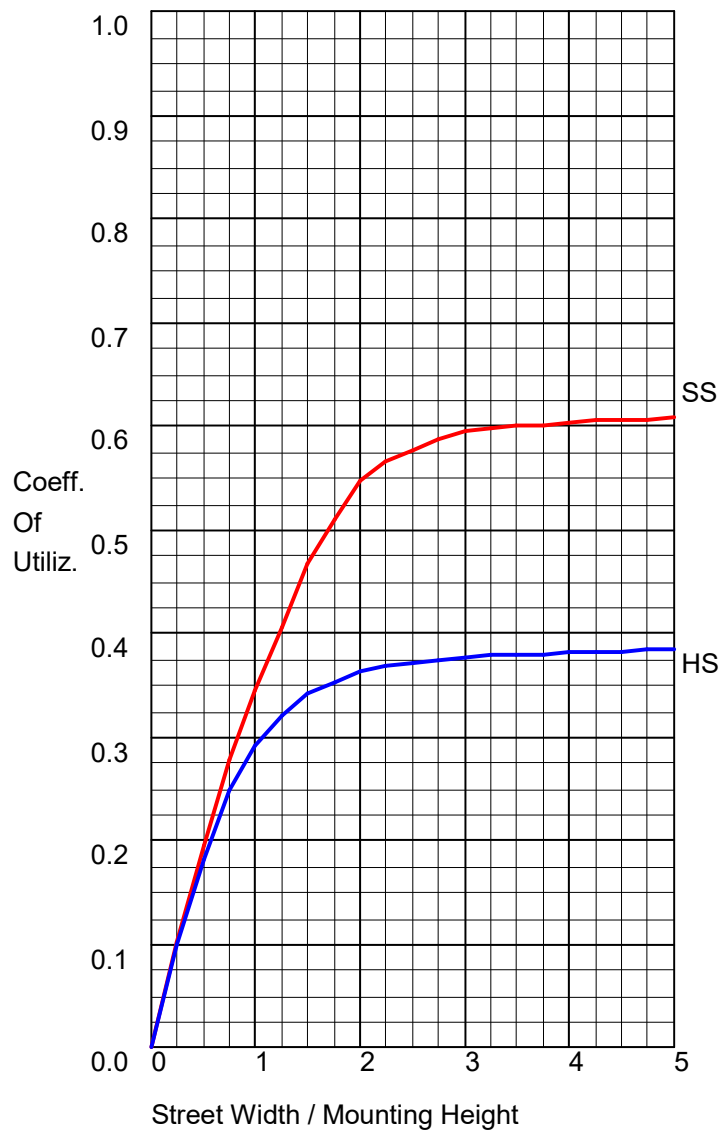
	<u>175.0</u>	<u>180.0</u>
0.0	2419	2419
2.5	2408	2398
5.0	2422	2411
7.5	2417	2408
10.0	2428	2419
12.5	2451	2441
15.0	2467	2456
17.5	2478	2468
20.0	2488	2481
22.5	2497	2488
25.0	2498	2488
27.5	2490	2484
30.0	2473	2470
32.5	2447	2439
35.0	2410	2401
37.5	2357	2351
40.0	2306	2303
42.5	2303	2313
45.0	2379	2403
47.5	2313	2318
50.0	2069	2068
52.5	1865	1865
55.0	1696	1701
57.5	1509	1502
60.0	1300	1301
62.5	1142	1149
65.0	1025	1032

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	921	930
<b>70.0</b>	810	813
<b>72.5</b>	691	695
<b>75.0</b>	587	598
<b>77.5</b>	469	475
<b>80.0</b>	342	359
<b>82.5</b>	226	237
<b>85.0</b>	122	126
<b>87.5</b>	56	58
<b>90.0</b>	0	0

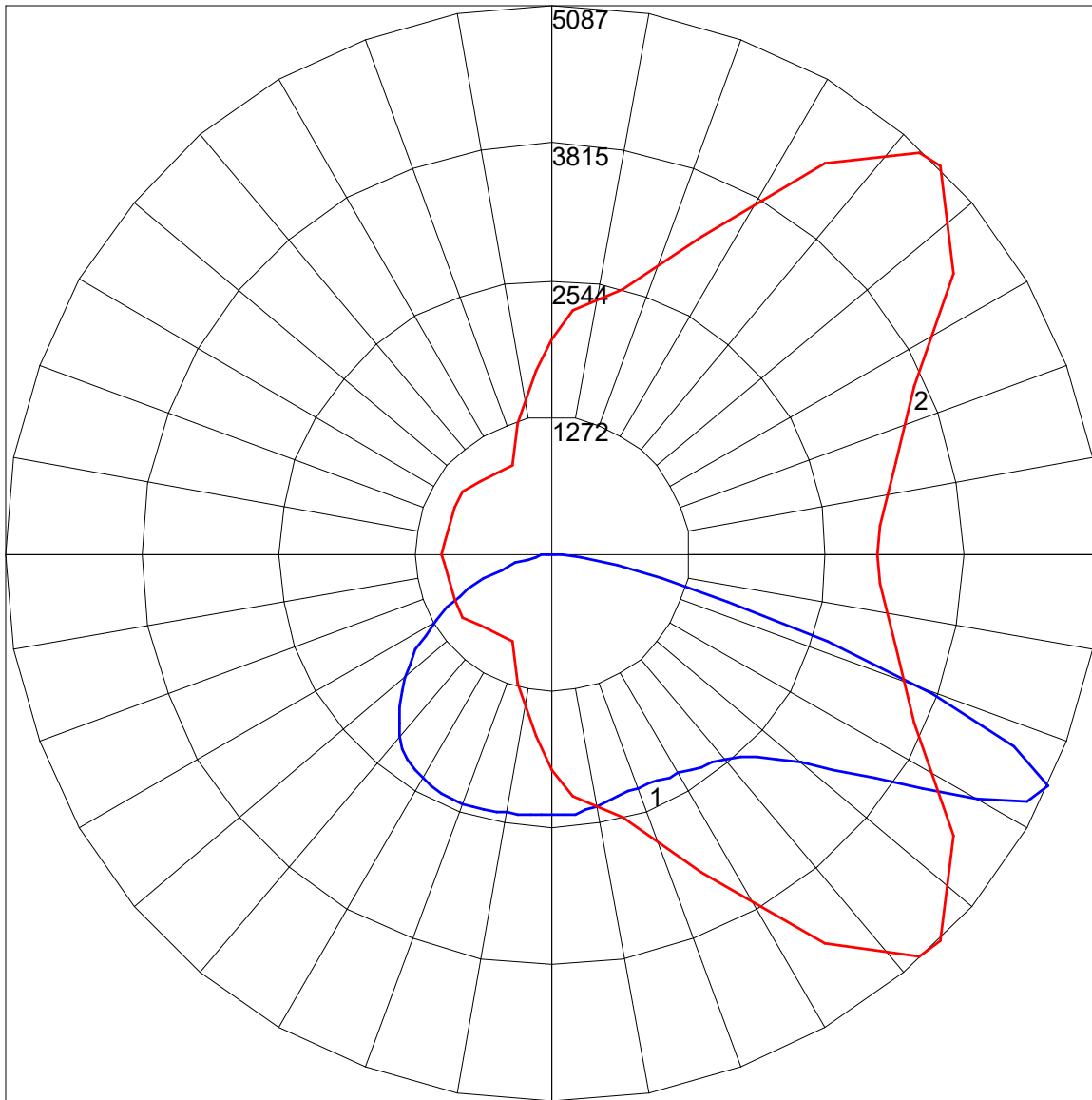
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

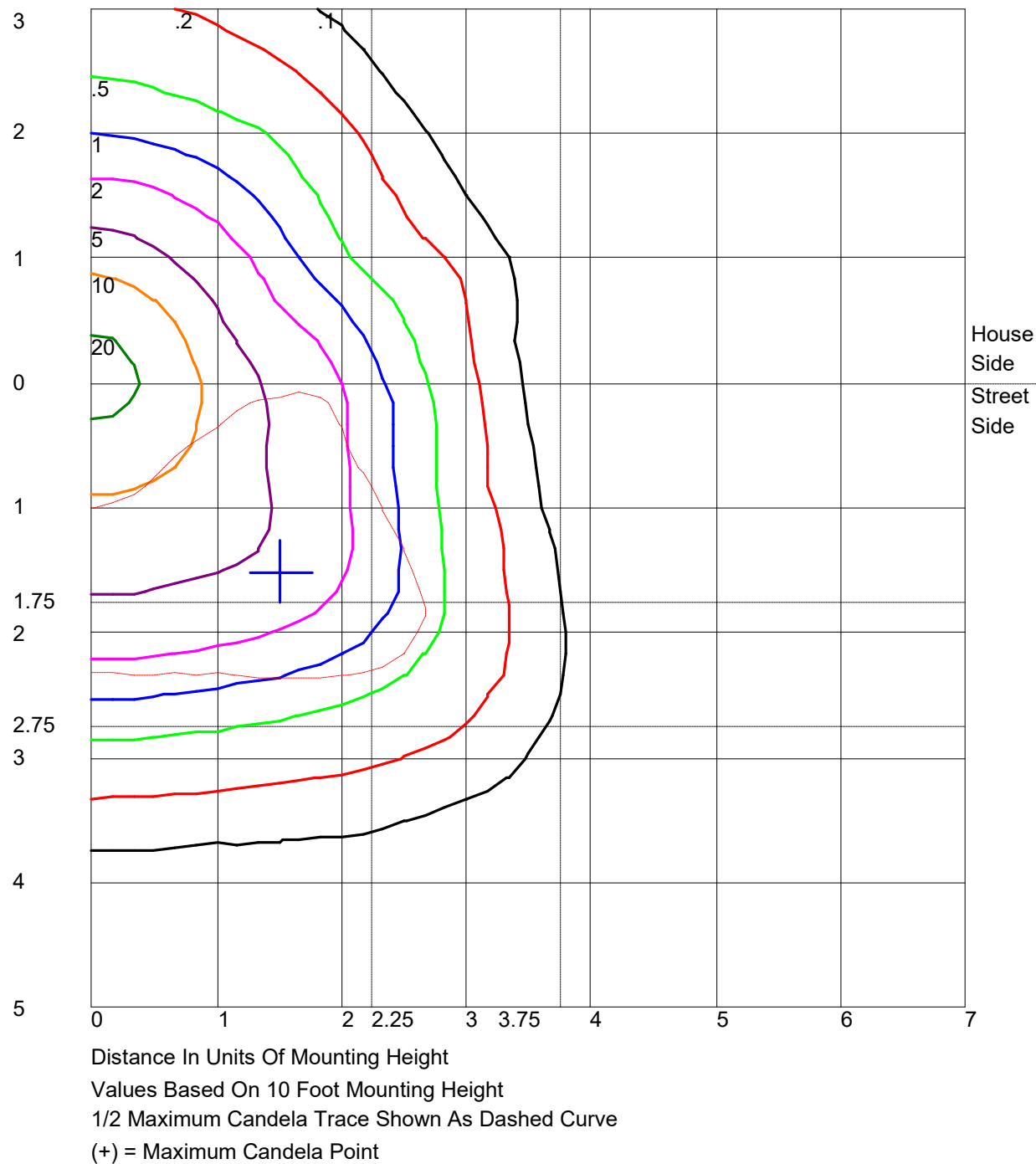
	Lumens	Percent Of Luminaire
Downward Street Side	6534.6	61.2
Downward House Side	4135.2	38.8
Downward Total	10669.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10669.8	100.0

POLAR GRAPH

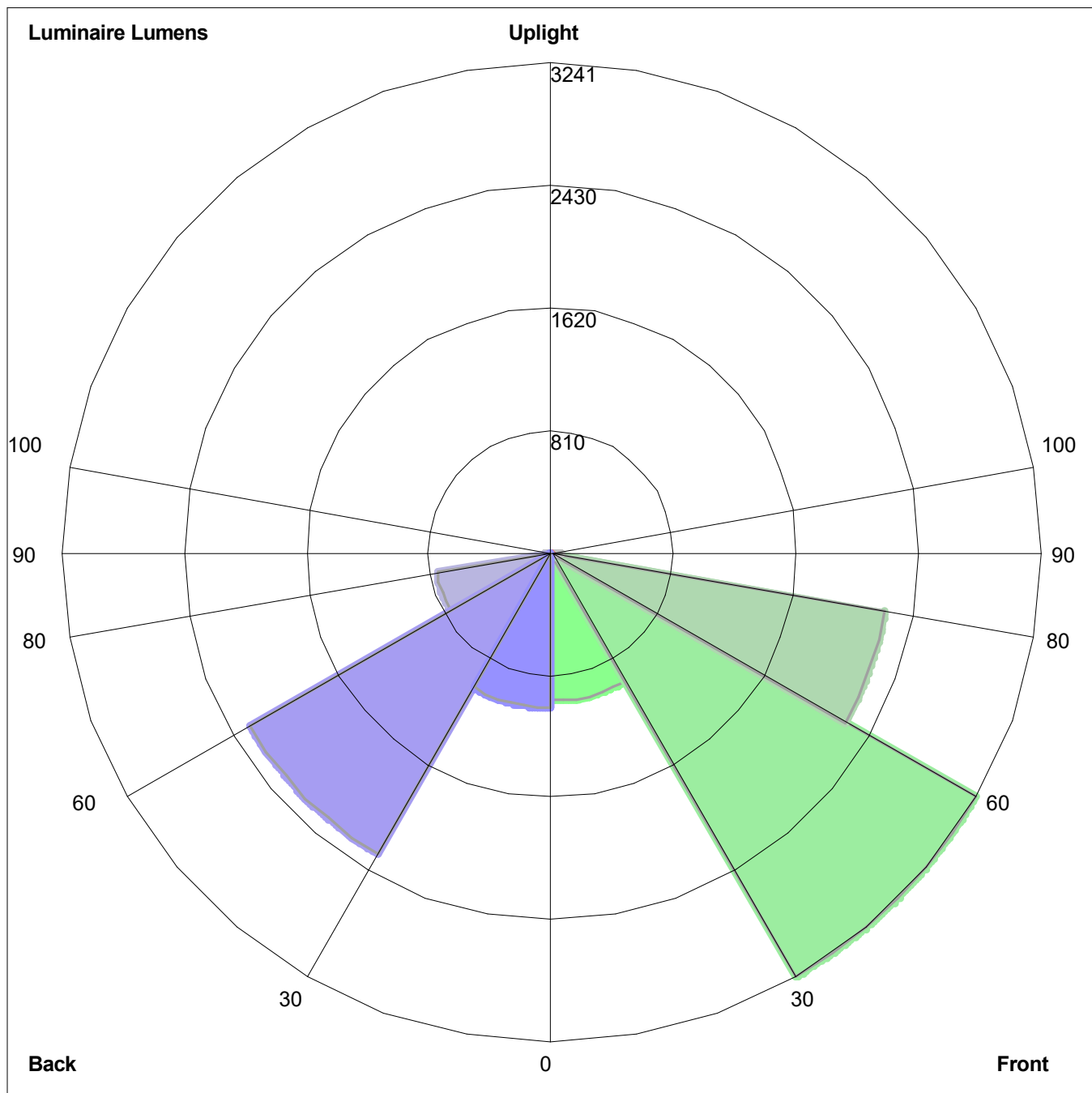


Maximum Candela = 5087 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=982.1, Medium=3240.5, High=2243.6, Very High=68.4  
Back: Low=1028.4, Medium=2296.2, High=767.8, Very High=42.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2