



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-10L-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-10L-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	11107
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	79
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5296
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	5296
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	671 (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)	1022.3	N.A.	9.2
FM - Front-Medium (30-60)	3373.3	N.A.	30.4
FH - Front-High (60-80)	2335.6	N.A.	21.0
FVH - Front-Very High (80-90)	71.2	N.A.	0.6
BL - Back-Low (0-30)	1070.5	N.A.	9.6
BM - Back-Medium (30-60)	2390.3	N.A.	21.5
BH - Back-High (60-80)	799.3	N.A.	7.2
BVH - Back-Very High (80-90)	44.5	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	11107.0	N.A.	100.0
BUG Rating	B3-U0-G2		

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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	2518	2518	2518	2518	2518	2518	2518	2518	2518	2518
2.5	2495	2502	2497	2500	2513	2532	2523	2525	2526	2531
5.0	2481	2492	2486	2490	2500	2522	2515	2521	2523	2530
7.5	2451	2460	2456	2464	2480	2502	2496	2501	2509	2521
10.0	2416	2426	2424	2430	2453	2480	2476	2487	2497	2515
12.5	2382	2393	2392	2402	2427	2458	2455	2472	2485	2505
15.0	2356	2366	2364	2378	2401	2437	2433	2454	2470	2497
17.5	2331	2343	2340	2353	2383	2417	2417	2440	2458	2487
20.0	2315	2331	2329	2343	2372	2406	2405	2428	2451	2479
22.5	2309	2322	2325	2343	2374	2405	2404	2425	2444	2472
25.0	2309	2320	2331	2351	2385	2414	2415	2433	2451	2473
27.5	2322	2332	2345	2367	2400	2432	2428	2446	2458	2479
30.0	2332	2347	2365	2387	2423	2448	2443	2455	2466	2490
32.5	2345	2357	2378	2410	2451	2476	2472	2475	2486	2509
35.0	2355	2366	2393	2437	2483	2511	2506	2507	2505	2515
37.5	2382	2391	2417	2474	2523	2553	2546	2538	2526	2512
40.0	2449	2458	2474	2530	2574	2605	2595	2581	2547	2514
42.5	2533	2538	2562	2613	2659	2679	2671	2648	2585	2540
45.0	2645	2651	2672	2722	2764	2787	2784	2748	2646	2579
47.5	2831	2836	2861	2895	2909	2937	2941	2889	2708	2629
50.0	3090	3104	3098	3126	3129	3146	3141	3037	2795	2694
52.5	3403	3422	3402	3428	3416	3428	3412	3238	2926	2773
55.0	3698	3720	3720	3774	3799	3802	3783	3529	3098	2847
57.5	3966	3970	4018	4102	4247	4238	4217	3916	3265	2923
60.0	3969	4007	4131	4310	4638	4734	4719	4260	3442	3008
62.5	3674	3746	3955	4258	4885	5181	5146	4551	3524	2937
65.0	3147	3190	3436	3852	4745	5296	5269	4615	3392	2650
67.5	2397	2425	2628	3061	4057	4839	4886	4386	3012	2143
70.0	1592	1632	1766	2154	3025	3927	4033	3730	2423	1545
72.5	991	981	1092	1351	1965	2796	2946	2875	1618	932
75.0	592	605	665	846	1255	1766	1861	1815	1042	570
77.5	388	396	443	588	769	1084	1140	1058	633	304
80.0	263	269	283	404	535	643	671	548	285	153
82.5	164	163	184	284	335	282	260	182	128	109
85.0	92	94	104	204	191	83	72	55	57	70
87.5	42	44	51	92	88	29	28	26	26	29
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	2518	2518	2518	2518	2518	2518	2518	2518	2518	2518
2.5	2546	2553	2551	2537	2530	2530	2539	2517	2509	2508
5.0	2549	2555	2555	2543	2537	2535	2544	2529	2520	2519
7.5	2547	2556	2555	2546	2541	2543	2553	2530	2520	2514
10.0	2540	2553	2555	2547	2547	2544	2545	2530	2523	2525
12.5	2538	2548	2553	2547	2544	2539	2548	2542	2542	2545
15.0	2533	2545	2551	2545	2538	2542	2559	2554	2555	2562
17.5	2528	2544	2549	2543	2528	2539	2565	2564	2564	2571
20.0	2524	2542	2547	2534	2516	2539	2567	2568	2570	2579
22.5	2520	2539	2544	2520	2508	2537	2566	2569	2573	2586
25.0	2515	2529	2532	2496	2493	2531	2562	2565	2571	2585
27.5	2512	2520	2517	2466	2466	2511	2545	2555	2565	2576

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CANDELA TABULATION - (Cont.)

30.0	2514	2516	2505	2434	2436	2481	2518	2533	2546	2559
32.5	2514	2508	2486	2398	2396	2443	2482	2498	2515	2532
35.0	2506	2489	2459	2353	2349	2400	2439	2455	2474	2493
37.5	2485	2462	2425	2296	2294	2344	2384	2393	2412	2436
40.0	2469	2434	2383	2240	2228	2271	2305	2314	2334	2364
42.5	2470	2420	2356	2180	2150	2186	2209	2224	2252	2305
45.0	2490	2421	2341	2122	2057	2086	2104	2116	2149	2278
47.5	2520	2435	2335	2063	1950	1971	1984	1996	2054	2269
50.0	2569	2464	2336	2003	1834	1845	1862	1888	2018	2122
52.5	2624	2496	2339	1939	1707	1706	1747	1827	1893	1922
55.0	2657	2502	2311	1853	1569	1578	1631	1639	1718	1747
57.5	2718	2542	2310	1754	1400	1435	1459	1505	1528	1559
60.0	2781	2594	2331	1711	1253	1262	1312	1357	1342	1358
62.5	2660	2444	2164	1587	1143	1085	1145	1205	1177	1169
65.0	2355	2081	1766	1311	943	942	978	1068	1035	1035
67.5	1867	1646	1386	1083	720	777	880	984	903	910
70.0	1328	1166	985	916	603	598	710	718	751	789
72.5	721	645	563	659	513	492	508	588	609	662
75.0	380	342	338	409	340	349	374	439	460	541
77.5	196	185	205	245	231	211	239	293	319	410
80.0	116	111	125	149	139	140	165	177	199	268
82.5	91	86	86	101	98	97	102	112	117	155
85.0	58	55	56	61	62	62	64	66	75	80
87.5	30	28	30	32	34	34	33	37	32	38
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

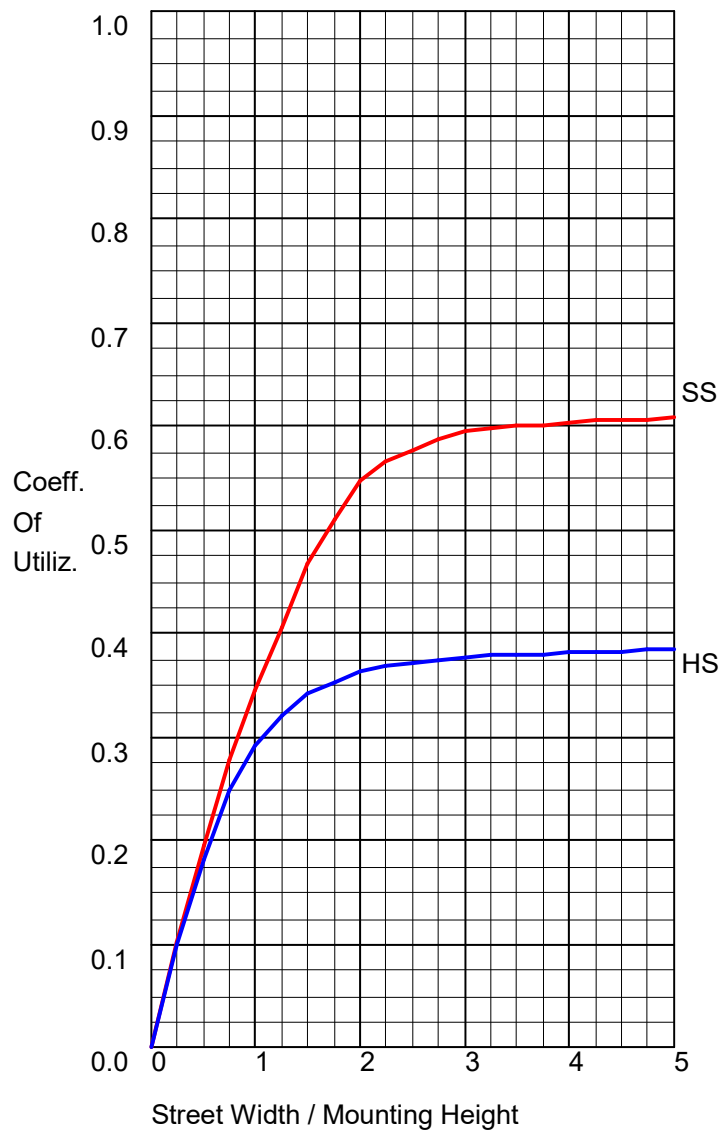
	<u>175.0</u>	<u>180.0</u>
0.0	2518	2518
2.5	2507	2496
5.0	2521	2510
7.5	2516	2507
10.0	2528	2518
12.5	2551	2541
15.0	2568	2557
17.5	2580	2569
20.0	2590	2583
22.5	2599	2590
25.0	2600	2590
27.5	2592	2586
30.0	2574	2571
32.5	2547	2539
35.0	2509	2499
37.5	2454	2447
40.0	2401	2397
42.5	2397	2408
45.0	2476	2502
47.5	2408	2413
50.0	2154	2153
52.5	1941	1941
55.0	1766	1771
57.5	1571	1564
60.0	1353	1354
62.5	1189	1196
65.0	1067	1074

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CANDELA TABULATION - (Cont.)

67.5	959	968
70.0	843	846
72.5	719	724
75.0	611	622
77.5	488	494
80.0	356	374
82.5	235	247
85.0	127	131
87.5	58	60
90.0	0	0

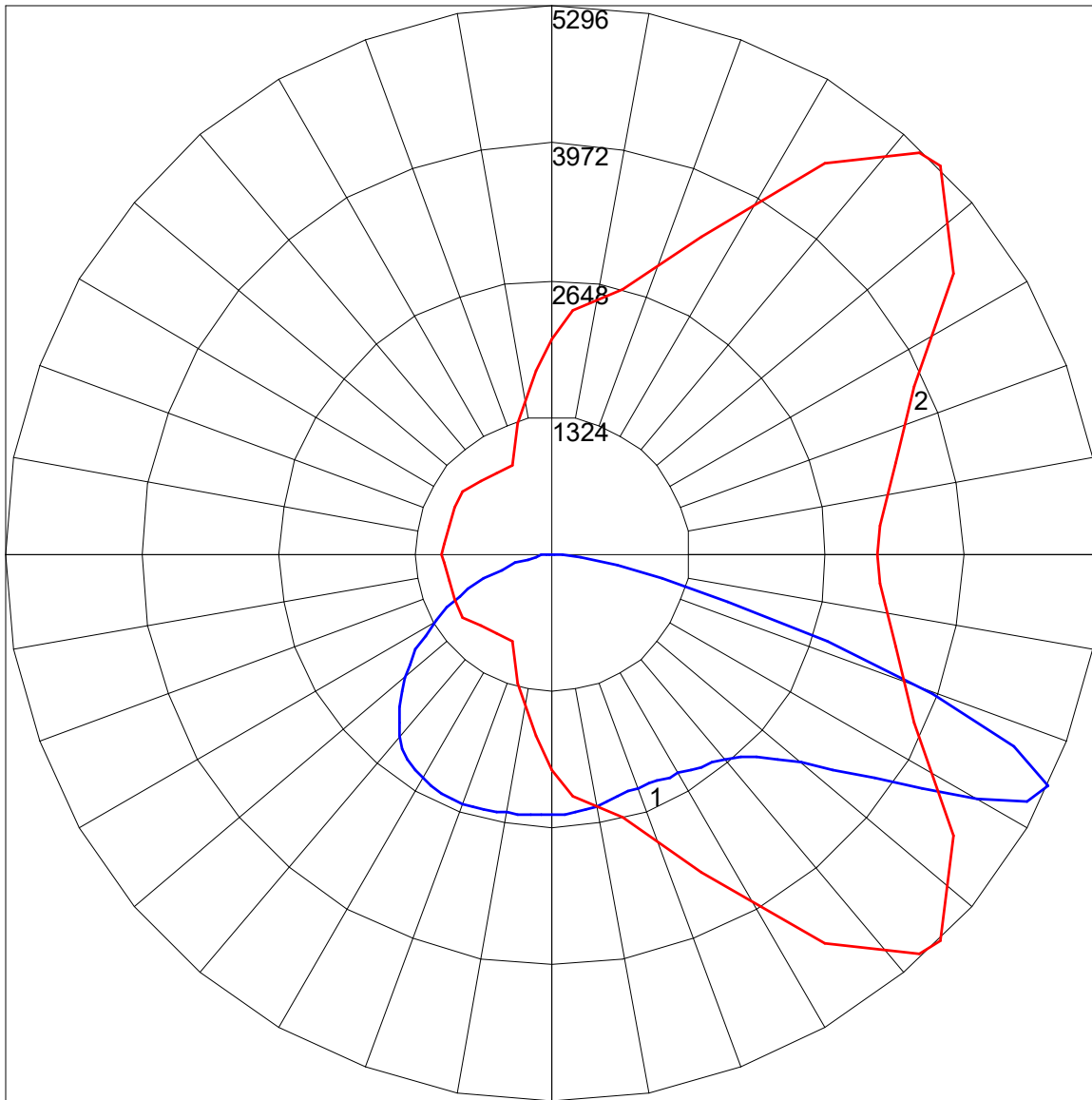
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

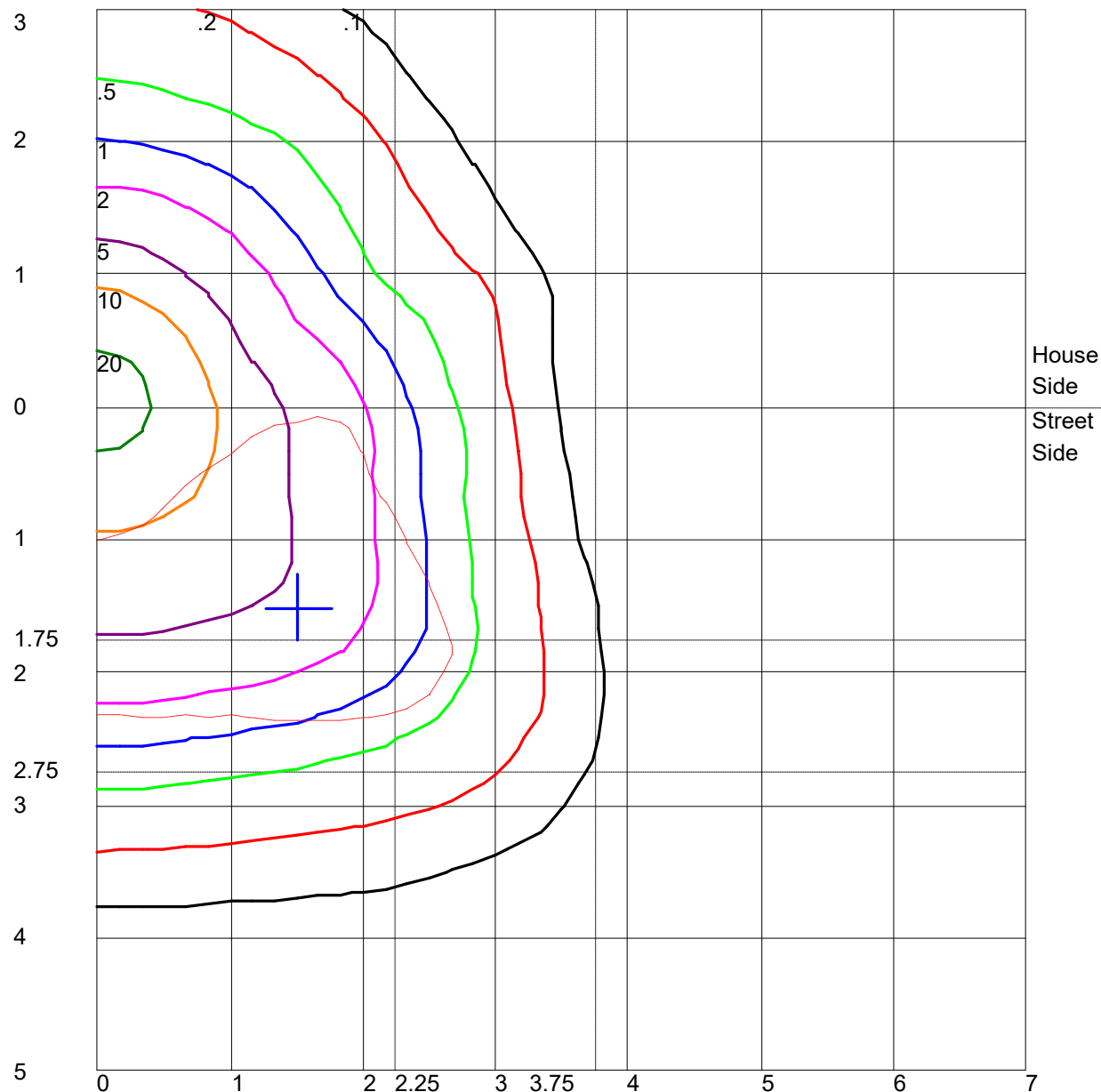
	Lumens	Percent Of Luminaire
Downward Street Side	6802.4	61.2
Downward House Side	4304.7	38.8
Downward Total	11107.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11107.1	100.0

POLAR GRAPH

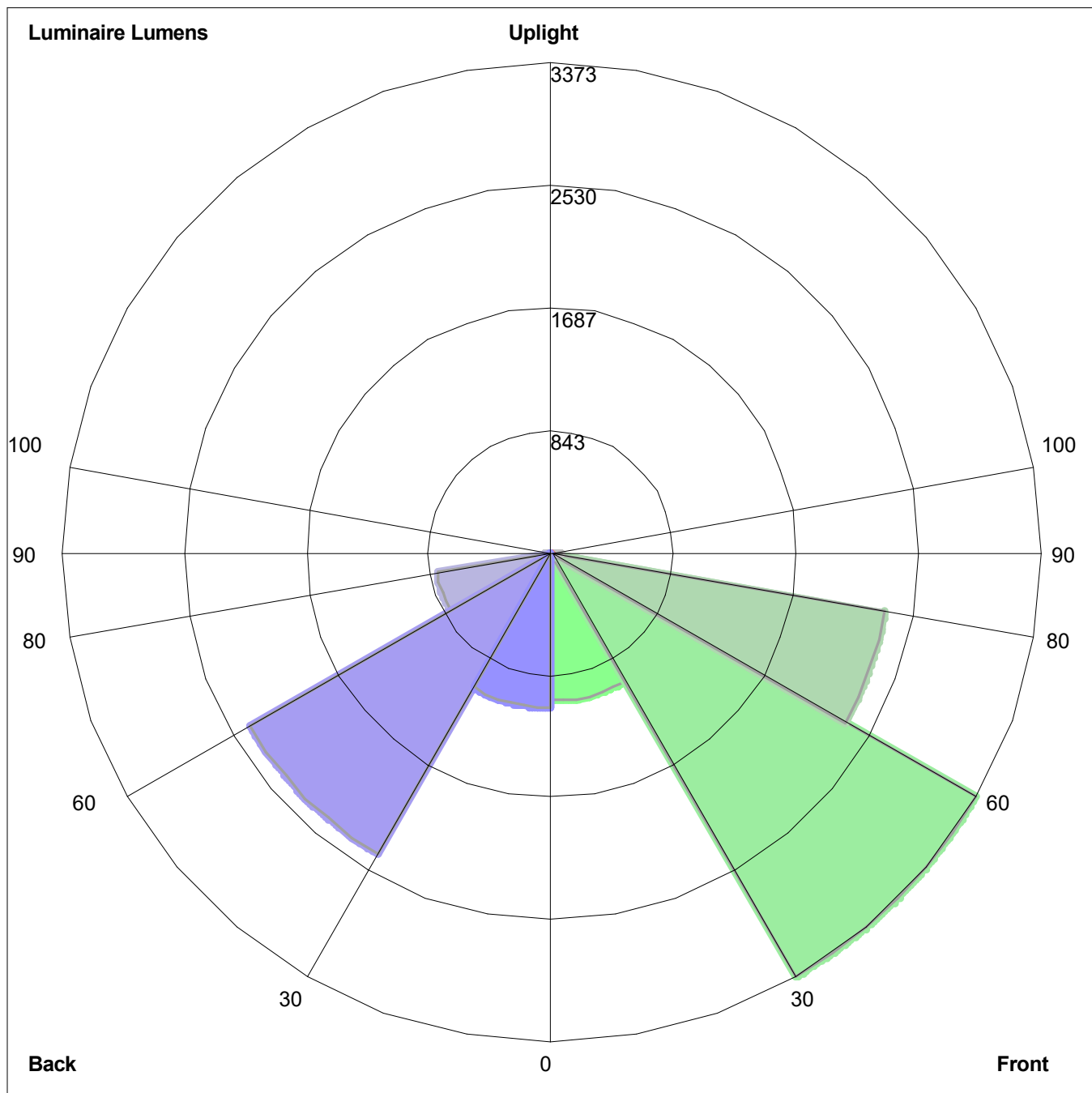


Maximum Candela = 5296 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1022.3, Medium=3373.3, High=2335.6, Very High=71.2
Back: Low=1070.5, Medium=2390.3, High=799.3, Very High=44.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2