



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-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-20L-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	20452
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9751
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	9751
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	1234 (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)	1882.4	N.A.	9.2
FM - Front-Medium (30-60)	6211.5	N.A.	30.4
FH - Front-High (60-80)	4300.5	N.A.	21.0
FVH - Front-Very High (80-90)	131.2	N.A.	0.6
BL - Back-Low (0-30)	1971.2	N.A.	9.6
BM - Back-Medium (30-60)	4401.4	N.A.	21.5
BH - Back-High (60-80)	1471.7	N.A.	7.2
BVH - Back-Very High (80-90)	82.1	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	20452.0	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	4637	4637	4637	4637	4637	4637	4637	4637	4637	4637
2.5	4594	4607	4599	4603	4627	4663	4647	4649	4651	4661
5.0	4569	4589	4578	4584	4602	4643	4630	4642	4646	4658
7.5	4514	4530	4522	4537	4566	4607	4596	4605	4621	4642
10.0	4449	4467	4463	4474	4516	4567	4559	4580	4598	4631
12.5	4386	4406	4404	4424	4469	4526	4521	4551	4575	4612
15.0	4338	4356	4352	4379	4422	4487	4480	4519	4549	4599
17.5	4291	4315	4308	4331	4388	4450	4452	4493	4526	4580
20.0	4262	4291	4288	4314	4367	4430	4428	4472	4513	4565
22.5	4252	4277	4281	4313	4372	4429	4427	4465	4500	4552
25.0	4252	4271	4292	4329	4392	4446	4447	4480	4514	4553
27.5	4276	4294	4318	4358	4419	4477	4472	4503	4526	4565
30.0	4295	4322	4355	4396	4461	4507	4499	4521	4542	4585
32.5	4318	4340	4380	4438	4513	4559	4552	4558	4578	4620
35.0	4337	4356	4406	4487	4573	4623	4614	4617	4612	4631
37.5	4386	4404	4452	4555	4646	4700	4689	4673	4650	4626
40.0	4509	4526	4555	4658	4739	4796	4778	4752	4690	4629
42.5	4664	4673	4718	4812	4895	4933	4917	4876	4760	4677
45.0	4870	4882	4920	5012	5089	5131	5127	5061	4872	4748
47.5	5213	5223	5267	5331	5356	5408	5416	5320	4987	4841
50.0	5690	5716	5704	5757	5762	5793	5784	5592	5147	4961
52.5	6266	6302	6265	6313	6290	6312	6283	5963	5387	5107
55.0	6809	6849	6849	6949	6996	7000	6966	6498	5704	5242
57.5	7303	7310	7399	7553	7820	7803	7766	7211	6012	5382
60.0	7308	7378	7606	7936	8539	8717	8690	7844	6338	5538
62.5	6766	6897	7282	7840	8994	9539	9476	8381	6489	5408
65.0	5795	5874	6327	7092	8737	9751	9701	8498	6246	4880
67.5	4413	4466	4839	5637	7470	8911	8996	8076	5546	3946
70.0	2932	3006	3252	3966	5570	7231	7427	6869	4462	2844
72.5	1825	1806	2011	2488	3619	5149	5426	5294	2979	1717
75.0	1089	1113	1225	1558	2310	3251	3426	3342	1917	1050
77.5	714	728	815	1084	1416	1996	2099	1949	1165	560
80.0	484	495	521	744	986	1184	1234	1010	525	282
82.5	303	300	339	523	617	520	479	335	235	200
85.0	170	173	192	376	353	152	133	102	105	129
87.5	78	81	94	169	162	54	52	47	47	53
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	4637	4637	4637	4637	4637	4637	4637	4637	4637	4637
2.5	4688	4701	4697	4671	4658	4659	4675	4635	4620	4618
5.0	4694	4704	4704	4683	4672	4668	4684	4656	4640	4638
7.5	4690	4706	4705	4688	4679	4683	4700	4659	4640	4629
10.0	4677	4700	4704	4690	4690	4684	4687	4659	4647	4649
12.5	4673	4691	4700	4690	4684	4676	4692	4681	4680	4687
15.0	4664	4687	4697	4686	4673	4681	4711	4702	4705	4718
17.5	4655	4683	4694	4682	4655	4674	4723	4721	4721	4735
20.0	4648	4681	4690	4666	4632	4674	4726	4728	4733	4748
22.5	4641	4675	4683	4641	4619	4671	4724	4731	4738	4762
25.0	4630	4657	4663	4597	4590	4660	4718	4722	4734	4760
27.5	4625	4640	4634	4542	4541	4623	4686	4705	4722	4743

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**CANDELA TABULATION - (Cont.)**

30.0	4629	4633	4613	4482	4485	4569	4637	4664	4689	4711
32.5	4629	4619	4578	4416	4412	4498	4571	4599	4630	4663
35.0	4614	4583	4528	4332	4326	4420	4492	4521	4555	4590
37.5	4575	4533	4466	4229	4224	4317	4389	4406	4440	4485
40.0	4547	4482	4388	4125	4102	4183	4244	4260	4298	4353
42.5	4548	4456	4338	4014	3960	4026	4067	4095	4147	4244
45.0	4584	4458	4311	3908	3787	3842	3874	3896	3957	4195
47.5	4640	4484	4299	3798	3590	3629	3653	3675	3782	4179
50.0	4731	4536	4302	3688	3377	3397	3428	3477	3716	3907
52.5	4832	4596	4307	3571	3143	3141	3216	3365	3485	3540
55.0	4892	4606	4256	3412	2890	2905	3004	3017	3163	3217
57.5	5004	4680	4253	3230	2577	2643	2687	2770	2813	2870
60.0	5121	4776	4291	3151	2306	2324	2415	2499	2472	2500
62.5	4897	4500	3985	2922	2106	1998	2108	2218	2167	2152
65.0	4336	3831	3252	2414	1737	1735	1801	1965	1905	1906
67.5	3438	3032	2551	1993	1326	1431	1620	1811	1663	1676
70.0	2446	2147	1814	1687	1111	1101	1308	1322	1383	1452
72.5	1328	1187	1037	1214	944	906	935	1083	1122	1219
75.0	699	629	623	753	625	643	688	808	848	997
77.5	361	340	378	451	426	389	440	539	588	755
80.0	213	205	231	275	256	258	304	326	367	493
82.5	168	159	159	186	181	179	188	207	216	286
85.0	108	102	104	112	114	114	118	122	138	148
87.5	55	52	56	60	63	62	61	67	60	70
90.0	0	0	0	0	0	0	0	0	0	0

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

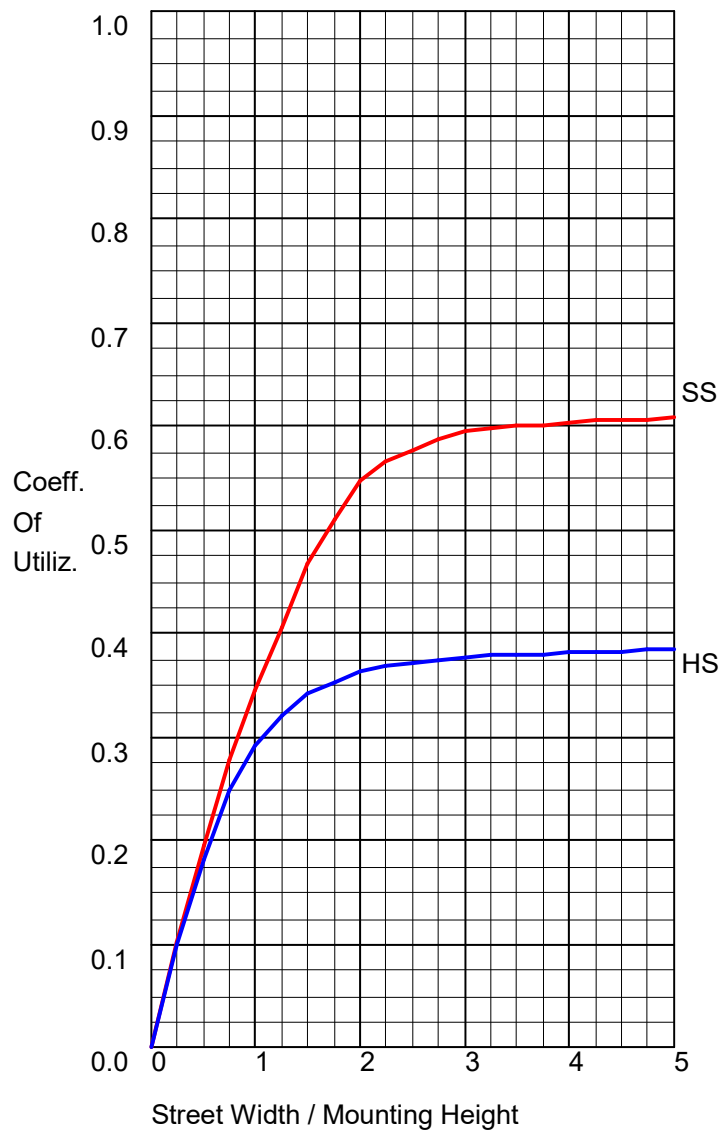
	<u>175.0</u>	<u>180.0</u>
0.0	4637	4637
2.5	4616	4597
5.0	4642	4623
7.5	4633	4617
10.0	4656	4636
12.5	4697	4679
15.0	4728	4708
17.5	4751	4730
20.0	4770	4757
22.5	4785	4770
25.0	4787	4770
27.5	4772	4762
30.0	4740	4734
32.5	4690	4675
35.0	4621	4602
37.5	4518	4506
40.0	4420	4414
42.5	4413	4434
45.0	4560	4606
47.5	4434	4444
50.0	3966	3964
52.5	3574	3575
55.0	3252	3261
57.5	2892	2879
60.0	2491	2494
62.5	2189	2203
65.0	1964	1978

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1766	1782
<b>70.0</b>	1552	1558
<b>72.5</b>	1325	1332
<b>75.0</b>	1125	1146
<b>77.5</b>	898	910
<b>80.0</b>	655	689
<b>82.5</b>	433	454
<b>85.0</b>	234	241
<b>87.5</b>	106	110
<b>90.0</b>	0	0

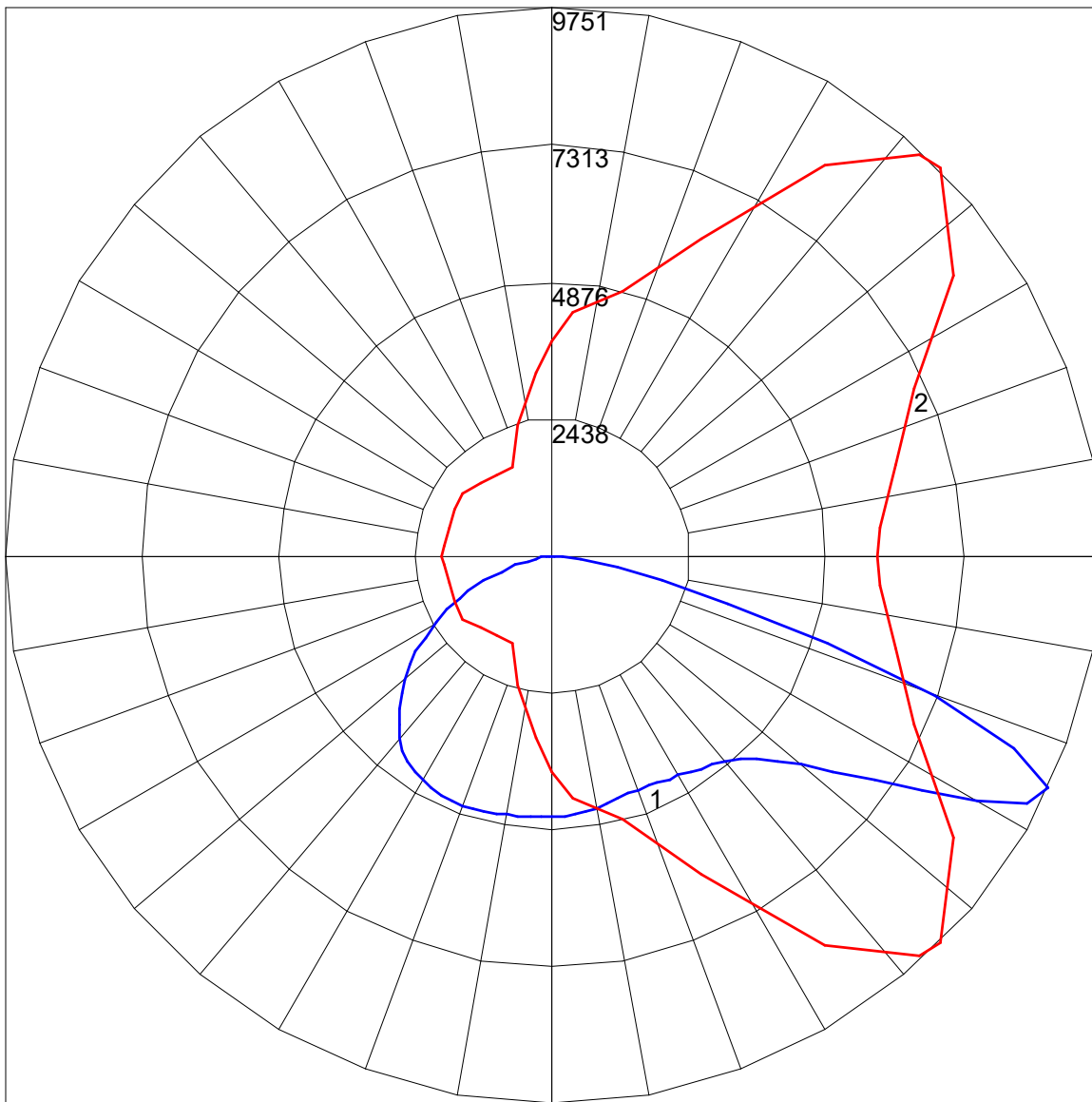
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

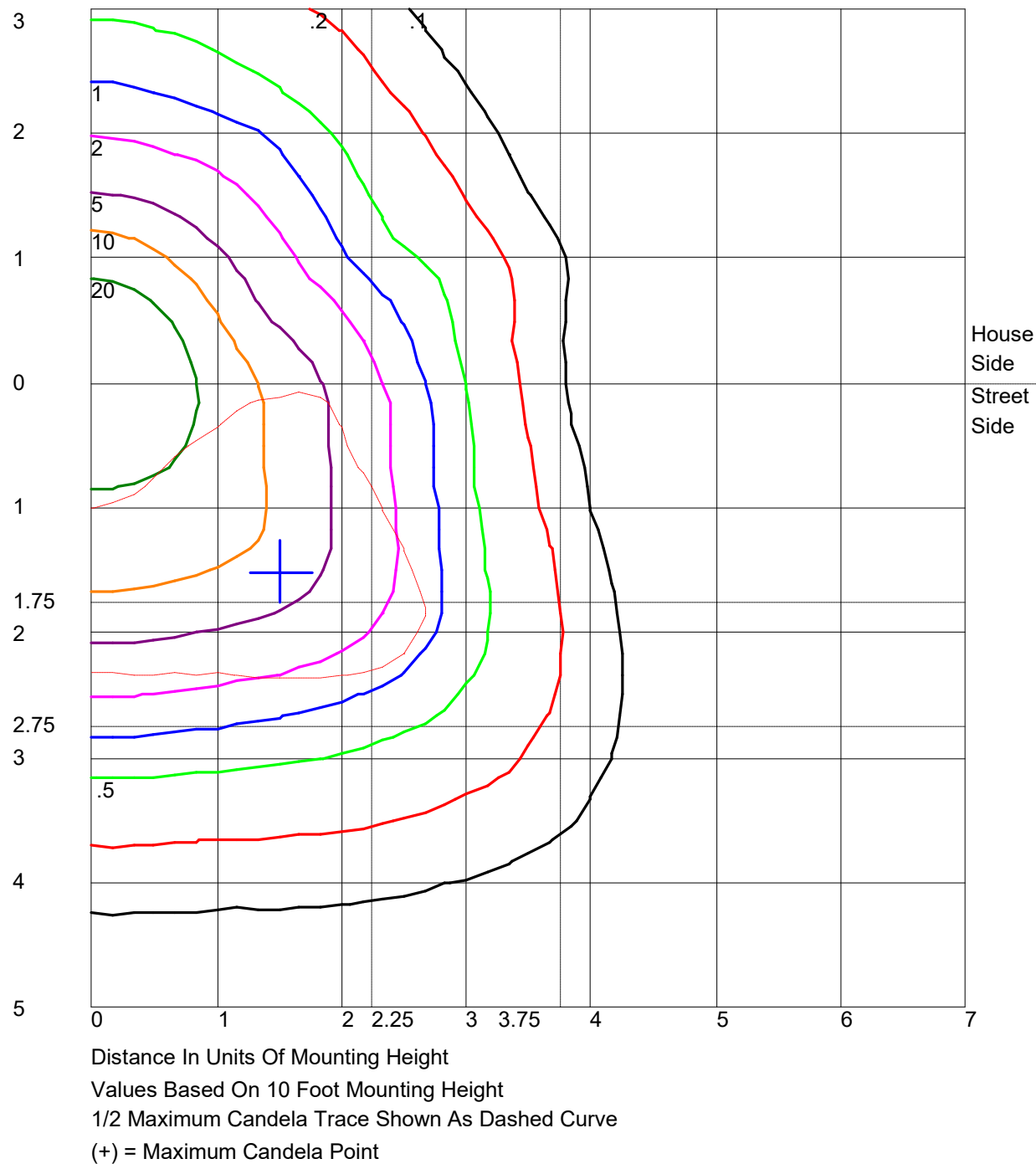
	Lumens	Percent Of Luminaire
Downward Street Side	12525.6	61.2
Downward House Side	7926.4	38.8
Downward Total	20452.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20452.0	100.0

POLAR GRAPH

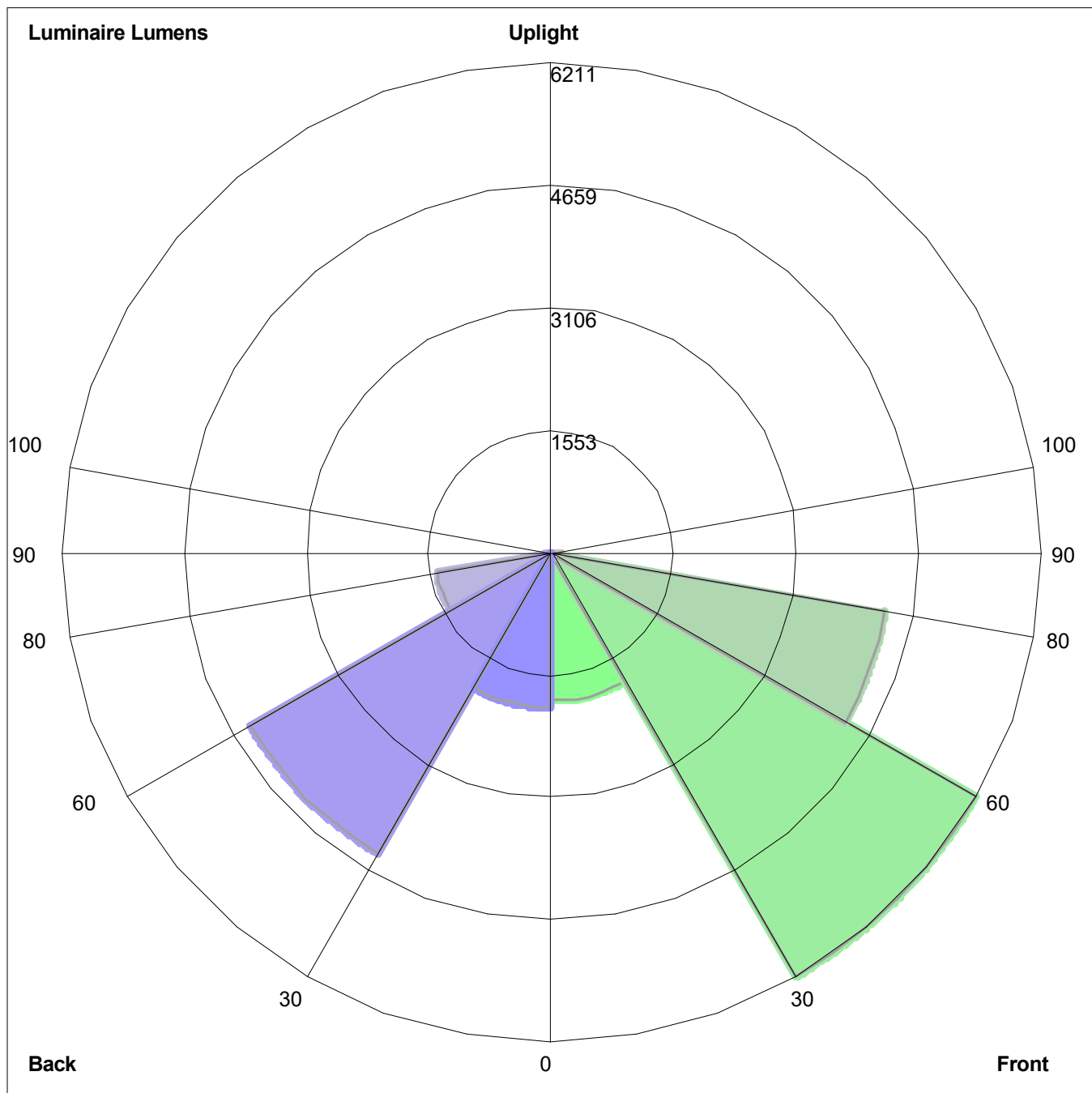


Maximum Candela = 9751 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1882.4, Medium=6211.5, High=4300.5, Very High=131.2  
Back: Low=1971.2, Medium=4401.4, High=1471.7, Very High=82.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3