



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-15L-FT-30K8.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-15L-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	16033
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	126
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7645
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	7645
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	968 (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)	1475.7	N.A.	9.2
FM - Front-Medium (30-60)	4869.5	N.A.	30.4
FH - Front-High (60-80)	3371.4	N.A.	21.0
FVH - Front-Very High (80-90)	102.8	N.A.	0.6
BL - Back-Low (0-30)	1545.3	N.A.	9.6
BM - Back-Medium (30-60)	3450.5	N.A.	21.5
BH - Back-High (60-80)	1153.8	N.A.	7.2
BVH - Back-Very High (80-90)	64.4	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	16033.4	N.A.	100.0
BUG Rating	B3-U0-G3		

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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>	3635	3635	3635	3635	3635	3635	3635	3635	3635	3635
<b>2.5</b>	3601	3612	3605	3609	3627	3655	3643	3645	3647	3654
<b>5.0</b>	3582	3598	3589	3594	3608	3640	3630	3639	3642	3651
<b>7.5</b>	3538	3551	3545	3557	3579	3612	3603	3610	3623	3639
<b>10.0</b>	3488	3502	3499	3507	3540	3580	3574	3591	3604	3631
<b>12.5</b>	3439	3454	3453	3468	3503	3549	3545	3568	3587	3616
<b>15.0</b>	3401	3415	3412	3432	3467	3518	3513	3543	3566	3605
<b>17.5</b>	3364	3382	3378	3396	3440	3488	3490	3522	3548	3591
<b>20.0</b>	3341	3364	3361	3382	3424	3473	3471	3505	3538	3578
<b>22.5</b>	3333	3353	3355	3381	3427	3472	3471	3501	3527	3569
<b>25.0</b>	3333	3349	3365	3393	3443	3485	3485	3512	3538	3570
<b>27.5</b>	3352	3366	3384	3416	3464	3510	3505	3530	3549	3578
<b>30.0</b>	3367	3388	3414	3446	3498	3534	3526	3544	3560	3595
<b>32.5</b>	3384	3403	3433	3479	3538	3574	3569	3574	3589	3622
<b>35.0</b>	3400	3415	3454	3517	3584	3624	3617	3620	3616	3631
<b>37.5</b>	3439	3452	3490	3572	3642	3685	3675	3663	3646	3626
<b>40.0</b>	3535	3548	3571	3651	3715	3760	3746	3725	3676	3628
<b>42.5</b>	3656	3663	3698	3772	3838	3867	3855	3822	3732	3667
<b>45.0</b>	3818	3827	3858	3929	3990	4022	4019	3967	3819	3722
<b>47.5</b>	4087	4094	4129	4179	4199	4240	4246	4171	3909	3794
<b>50.0</b>	4460	4480	4472	4513	4517	4541	4534	4383	4035	3889
<b>52.5</b>	4913	4941	4912	4949	4931	4948	4926	4674	4224	4003
<b>55.0</b>	5338	5370	5370	5448	5484	5488	5460	5094	4472	4110
<b>57.5</b>	5725	5731	5800	5921	6131	6117	6088	5653	4713	4220
<b>60.0</b>	5729	5784	5963	6221	6695	6834	6813	6149	4968	4341
<b>62.5</b>	5304	5407	5708	6146	7051	7479	7429	6570	5087	4240
<b>65.0</b>	4543	4604	4960	5560	6849	7645	7605	6662	4896	3825
<b>67.5</b>	3460	3501	3794	4419	5856	6985	7052	6331	4348	3093
<b>70.0</b>	2299	2356	2550	3110	4367	5669	5822	5384	3499	2231
<b>72.5</b>	1431	1416	1576	1950	2837	4037	4254	4150	2335	1346
<b>75.0</b>	854	873	960	1221	1812	2549	2686	2620	1503	823
<b>77.5</b>	560	571	639	849	1110	1565	1646	1527	914	439
<b>80.0</b>	379	388	408	583	773	929	968	792	411	222
<b>82.5</b>	237	234	266	409	483	407	376	263	184	157
<b>85.0</b>	134	135	151	295	277	119	104	80	82	101
<b>87.5</b>	61	63	74	133	127	42	41	37	37	41
<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>	3635	3635	3635	3635	3635	3635	3635	3635	3635	3635
<b>2.5</b>	3675	3685	3683	3662	3651	3652	3665	3633	3622	3621
<b>5.0</b>	3679	3688	3688	3671	3662	3659	3672	3650	3637	3636
<b>7.5</b>	3676	3690	3689	3675	3669	3671	3685	3652	3637	3628
<b>10.0</b>	3667	3685	3688	3677	3676	3672	3674	3652	3643	3646
<b>12.5</b>	3663	3677	3685	3677	3672	3666	3678	3670	3669	3674
<b>15.0</b>	3656	3674	3683	3673	3664	3670	3694	3686	3689	3698
<b>17.5</b>	3649	3672	3679	3671	3649	3665	3702	3700	3700	3712
<b>20.0</b>	3644	3670	3676	3658	3631	3665	3705	3706	3711	3722
<b>22.5</b>	3638	3665	3672	3638	3621	3662	3704	3709	3714	3733
<b>25.0</b>	3630	3651	3655	3603	3599	3653	3698	3702	3711	3732
<b>27.5</b>	3626	3637	3633	3560	3559	3624	3673	3689	3702	3718

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**CANDELA TABULATION - (Cont.)**

30.0	3628	3632	3616	3514	3516	3581	3635	3656	3675	3694
32.5	3629	3621	3589	3462	3458	3526	3583	3605	3630	3655
35.0	3617	3593	3550	3397	3391	3465	3522	3544	3571	3599
37.5	3587	3553	3501	3315	3311	3384	3441	3454	3481	3516
40.0	3564	3514	3440	3233	3216	3279	3328	3340	3370	3412
42.5	3565	3494	3402	3147	3104	3156	3188	3210	3251	3328
45.0	3594	3495	3379	3063	2968	3012	3038	3055	3102	3288
47.5	3637	3515	3370	2978	2815	2845	2864	2882	2965	3276
50.0	3709	3556	3372	2891	2647	2663	2688	2725	2913	3062
52.5	3789	3602	3377	2799	2464	2462	2522	2638	2732	2775
55.0	3835	3611	3336	2674	2265	2278	2355	2365	2480	2523
57.5	3923	3669	3334	2532	2020	2072	2106	2172	2205	2250
60.0	4014	3745	3364	2470	1808	1822	1893	1959	1938	1960
62.5	3839	3527	3124	2291	1650	1567	1652	1739	1699	1687
65.0	3400	3004	2550	1892	1361	1359	1412	1541	1494	1494
67.5	2695	2377	2000	1563	1039	1122	1270	1420	1304	1314
70.0	1917	1683	1422	1322	871	864	1025	1037	1085	1138
72.5	1040	931	813	952	741	710	733	848	880	956
75.0	548	493	489	590	491	503	540	633	665	781
77.5	282	266	296	354	333	305	345	423	461	592
80.0	167	160	181	215	201	203	238	256	287	386
82.5	132	125	124	146	142	140	148	162	169	224
85.0	85	80	81	88	89	89	92	96	109	116
87.5	43	41	43	47	49	49	47	53	47	55
90.0	0	0	0	0	0	0	0	0	0	0

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

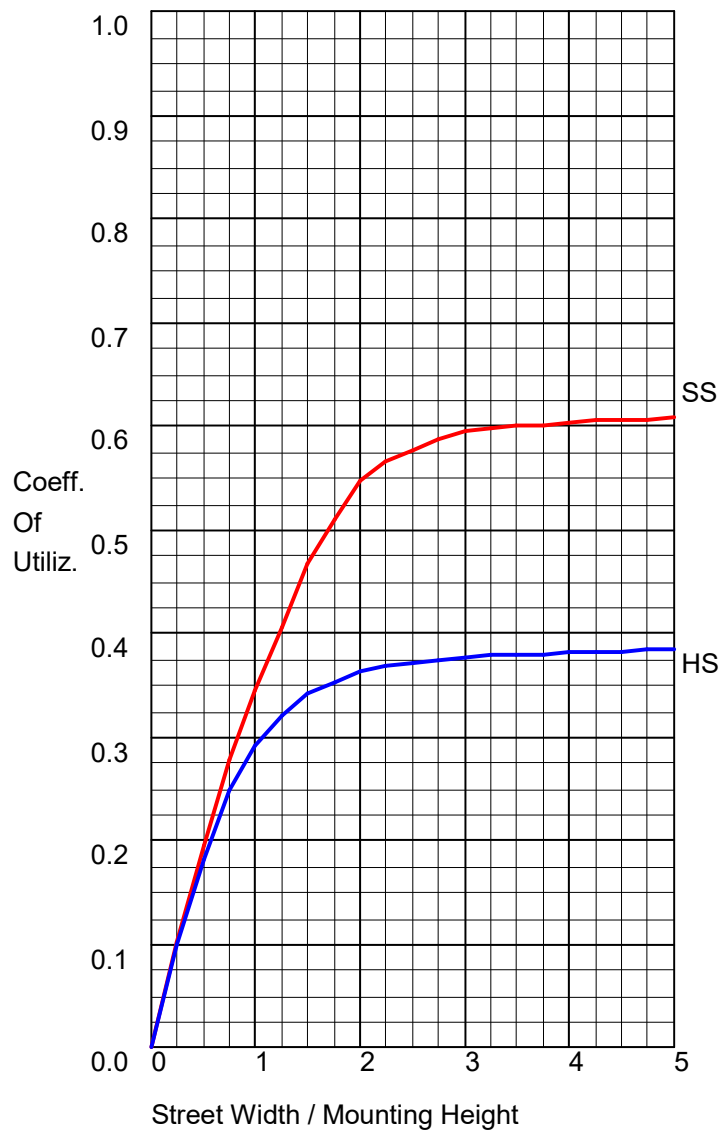
	<u>175.0</u>	<u>180.0</u>
0.0	3635	3635
2.5	3618	3603
5.0	3639	3623
7.5	3632	3620
10.0	3649	3634
12.5	3682	3669
15.0	3706	3691
17.5	3724	3708
20.0	3739	3729
22.5	3751	3739
25.0	3753	3739
27.5	3742	3733
30.0	3716	3711
32.5	3676	3665
35.0	3623	3607
37.5	3542	3532
40.0	3465	3460
42.5	3460	3477
45.0	3575	3611
47.5	3477	3483
50.0	3110	3107
52.5	2801	2802
55.0	2550	2556
57.5	2268	2257
60.0	1953	1955
62.5	1717	1727
65.0	1541	1550

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1384	1398
<b>70.0</b>	1216	1221
<b>72.5</b>	1038	1044
<b>75.0</b>	882	898
<b>77.5</b>	704	713
<b>80.0</b>	514	540
<b>82.5</b>	340	356
<b>85.0</b>	184	189
<b>87.5</b>	83	86
<b>90.0</b>	0	0

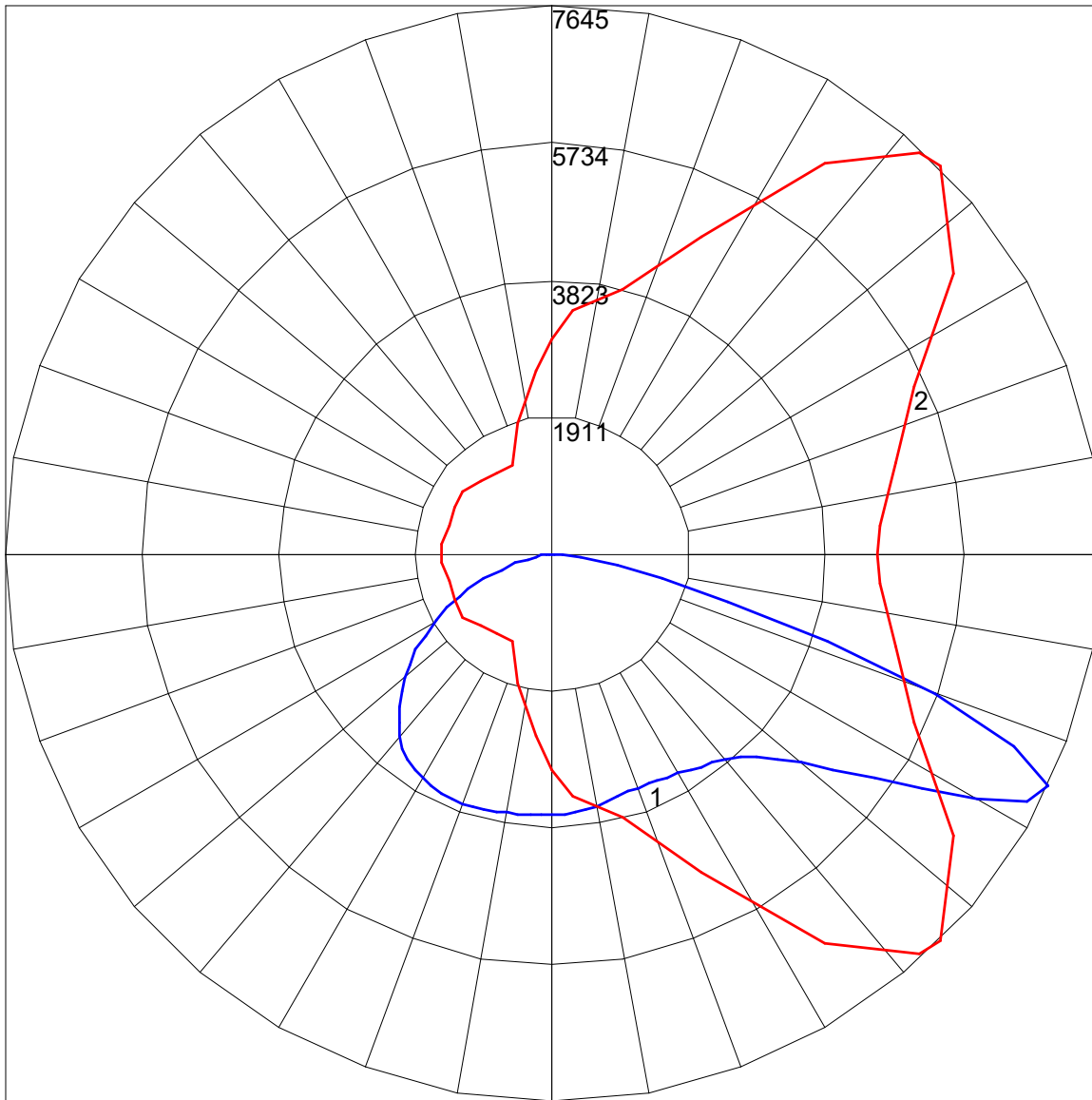
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

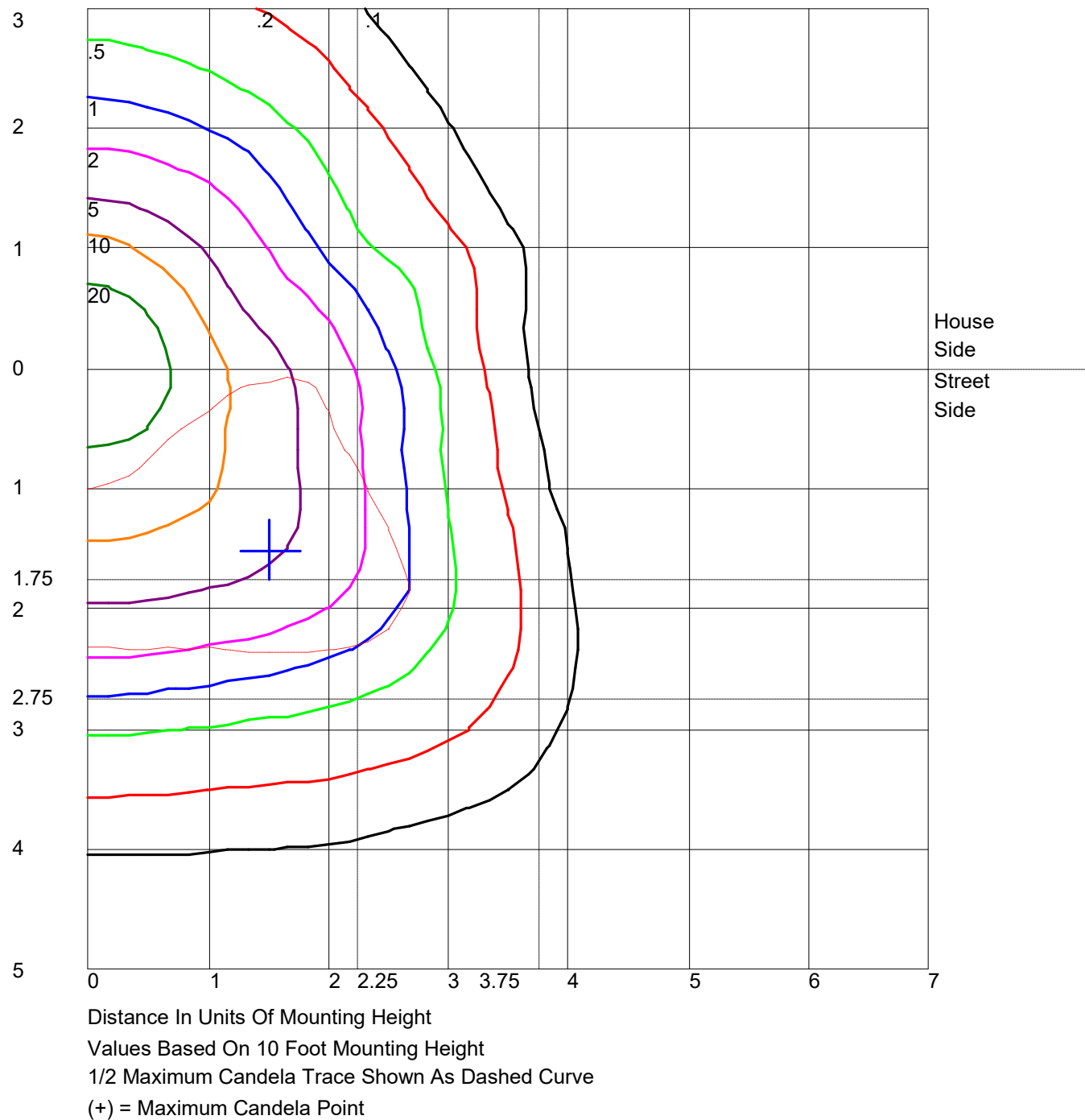
	Lumens	Percent Of Luminaire
Downward Street Side	9819.3	61.2
Downward House Side	6213.9	38.8
Downward Total	16033.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	16033.2	100.0

POLAR GRAPH

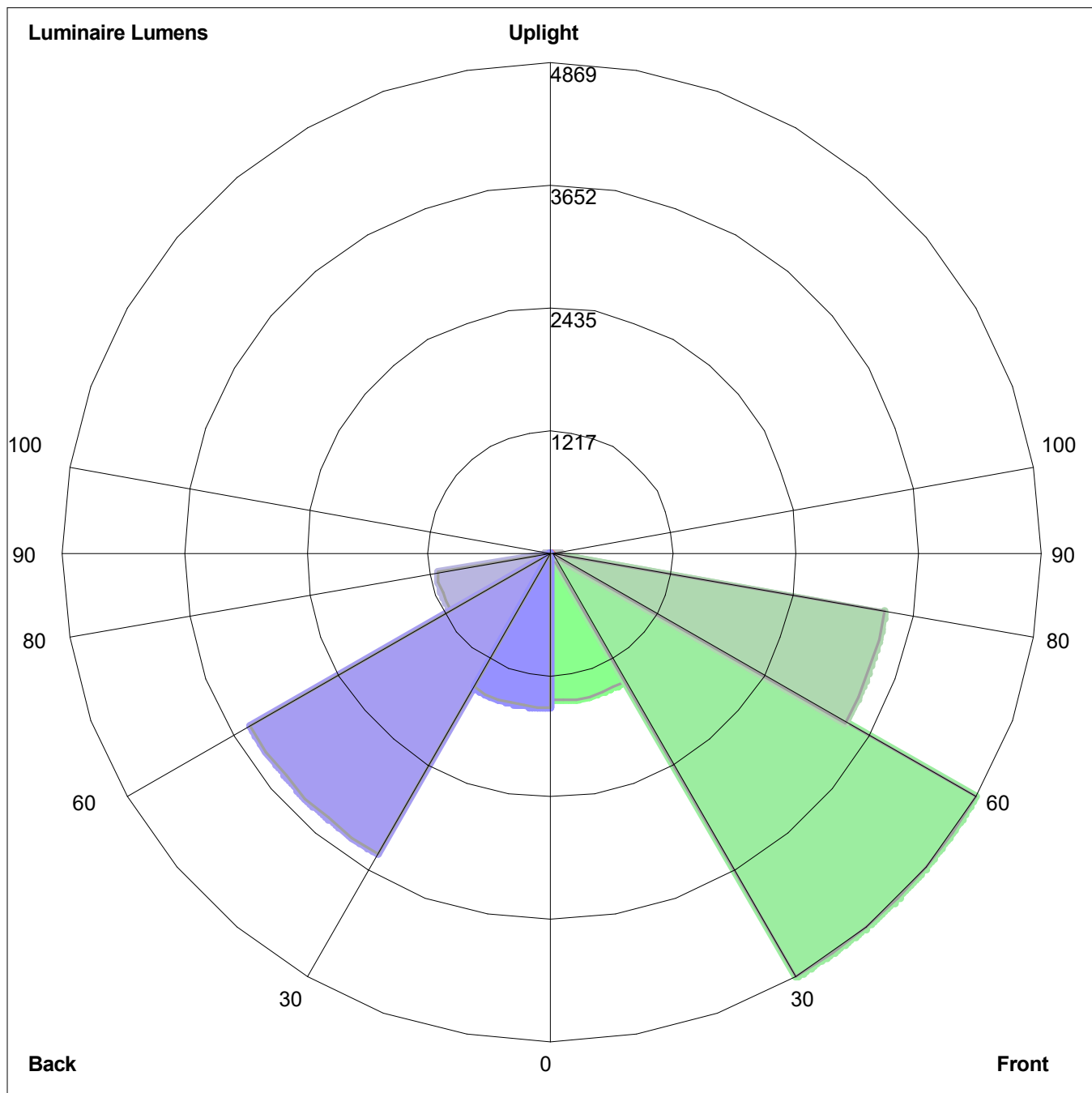


Maximum Candela = 7645 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1475.7, Medium=4869.5, High=3371.4, Very High=102.8  
Back: Low=1545.3, Medium=3450.5, High=1153.8, Very High=64.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3