



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-15L-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] HPG-15L-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	16690
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	126
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7958
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	7958
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	1008 (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)	1536.2	N.A.	9.2
FM - Front-Medium (30-60)	5069.0	N.A.	30.4
FH - Front-High (60-80)	3509.5	N.A.	21.0
FVH - Front-Very High (80-90)	107.0	N.A.	0.6
BL - Back-Low (0-30)	1608.6	N.A.	9.6
BM - Back-Medium (30-60)	3591.8	N.A.	21.5
BH - Back-High (60-80)	1201.0	N.A.	7.2
BVH - Back-Very High (80-90)	67.0	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	16690.1	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	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784
2.5	3749	3760	3753	3757	3776	3805	3792	3794	3796	3804
5.0	3729	3745	3736	3741	3756	3789	3779	3788	3791	3801
7.5	3683	3697	3690	3703	3726	3760	3751	3758	3771	3788
10.0	3631	3646	3642	3651	3685	3727	3720	3738	3752	3780
12.5	3580	3596	3594	3610	3647	3694	3690	3714	3734	3764
15.0	3540	3555	3552	3573	3609	3662	3657	3688	3712	3753
17.5	3502	3521	3516	3535	3581	3631	3633	3666	3693	3738
20.0	3478	3502	3499	3521	3564	3615	3613	3649	3683	3725
22.5	3470	3490	3493	3520	3567	3614	3613	3644	3672	3715
25.0	3470	3486	3503	3532	3584	3628	3628	3656	3683	3716
27.5	3489	3504	3523	3556	3606	3654	3649	3675	3694	3725
30.0	3505	3527	3554	3587	3641	3679	3671	3689	3706	3742
32.5	3523	3542	3574	3622	3683	3720	3715	3720	3736	3770
35.0	3539	3555	3596	3661	3731	3773	3765	3768	3764	3780
37.5	3580	3593	3633	3718	3791	3836	3826	3813	3795	3775
40.0	3680	3693	3717	3801	3867	3914	3900	3878	3827	3777
42.5	3806	3813	3850	3927	3995	4025	4013	3979	3885	3817
45.0	3974	3984	4016	4090	4154	4187	4184	4130	3976	3875
47.5	4255	4262	4298	4350	4371	4414	4420	4342	4069	3950
50.0	4643	4664	4655	4698	4702	4727	4720	4563	4200	4048
52.5	5114	5143	5113	5152	5133	5151	5128	4866	4397	4167
55.0	5557	5590	5590	5671	5709	5713	5684	5303	4655	4278
57.5	5960	5966	6038	6164	6382	6368	6337	5885	4906	4393
60.0	5964	6021	6207	6476	6969	7114	7092	6401	5172	4519
62.5	5521	5629	5942	6398	7340	7785	7733	6839	5295	4414
65.0	4729	4793	5163	5788	7130	7958	7917	6935	5097	3982
67.5	3602	3644	3949	4600	6096	7271	7341	6590	4526	3220
70.0	2393	2453	2654	3237	4546	5901	6061	5605	3642	2322
72.5	1490	1474	1641	2030	2953	4202	4428	4320	2431	1401
75.0	889	909	999	1271	1886	2653	2796	2727	1565	857
77.5	583	594	665	884	1155	1629	1713	1590	951	457
80.0	395	404	425	607	805	967	1008	824	428	231
82.5	247	244	277	426	503	424	391	274	192	163
85.0	139	141	157	307	288	124	108	83	85	105
87.5	64	66	77	138	132	44	43	38	38	43
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	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784
2.5	3826	3836	3834	3812	3801	3802	3815	3782	3770	3769
5.0	3830	3839	3839	3821	3812	3809	3823	3800	3786	3785
7.5	3827	3841	3840	3826	3819	3821	3836	3802	3786	3777
10.0	3817	3836	3839	3828	3827	3823	3825	3802	3792	3795
12.5	3813	3828	3836	3828	3823	3816	3829	3820	3819	3825
15.0	3806	3825	3834	3824	3814	3820	3845	3837	3840	3850
17.5	3799	3822	3830	3821	3799	3815	3854	3852	3852	3864
20.0	3793	3820	3827	3808	3780	3815	3857	3858	3863	3875
22.5	3787	3815	3822	3787	3769	3812	3856	3861	3866	3886
25.0	3779	3801	3805	3751	3746	3803	3850	3854	3863	3885
27.5	3775	3786	3782	3706	3705	3773	3824	3840	3854	3870

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CANDELA TABULATION - (Cont.)

30.0	3777	3781	3764	3658	3660	3728	3784	3806	3826	3845
32.5	3778	3769	3736	3604	3600	3670	3730	3753	3779	3805
35.0	3765	3740	3695	3536	3530	3607	3666	3689	3717	3746
37.5	3734	3699	3644	3451	3447	3523	3582	3596	3624	3660
40.0	3710	3658	3581	3366	3348	3413	3464	3477	3508	3552
42.5	3711	3637	3541	3276	3231	3285	3319	3342	3384	3464
45.0	3741	3638	3518	3189	3090	3135	3162	3180	3229	3423
47.5	3786	3659	3508	3100	2930	2962	2981	3000	3086	3410
50.0	3861	3702	3510	3009	2755	2772	2798	2837	3032	3188
52.5	3944	3750	3515	2914	2565	2563	2625	2746	2844	2889
55.0	3992	3759	3473	2784	2358	2371	2451	2462	2582	2626
57.5	4084	3819	3471	2636	2103	2157	2192	2261	2295	2342
60.0	4179	3898	3502	2571	1882	1897	1971	2039	2017	2040
62.5	3996	3672	3252	2385	1718	1631	1720	1810	1769	1756
65.0	3539	3127	2654	1970	1417	1415	1470	1604	1555	1555
67.5	2805	2474	2082	1627	1082	1168	1322	1478	1357	1368
70.0	1996	1752	1480	1376	907	899	1067	1079	1129	1185
72.5	1083	969	846	991	771	739	763	883	916	995
75.0	570	513	509	614	511	524	562	659	692	813
77.5	294	277	308	369	347	317	359	440	480	616
80.0	174	167	188	224	209	211	248	266	299	402
82.5	137	130	129	152	148	146	154	169	176	233
85.0	88	83	84	92	93	93	96	100	113	121
87.5	45	43	45	49	51	51	49	55	49	57
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

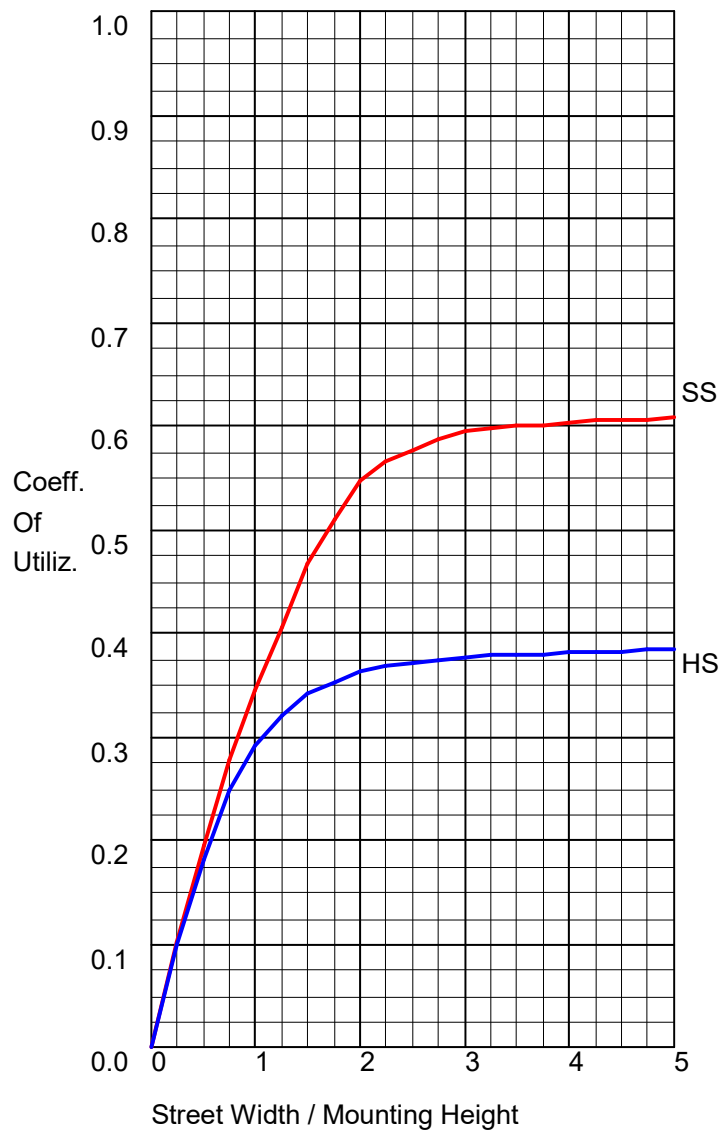
	<u>175.0</u>	<u>180.0</u>
0.0	3784	3784
2.5	3766	3751
5.0	3788	3772
7.5	3781	3768
10.0	3799	3783
12.5	3833	3819
15.0	3858	3842
17.5	3877	3860
20.0	3892	3882
22.5	3905	3892
25.0	3907	3892
27.5	3895	3886
30.0	3868	3863
32.5	3827	3815
35.0	3771	3755
37.5	3687	3677
40.0	3607	3602
42.5	3602	3619
45.0	3721	3759
47.5	3619	3626
50.0	3237	3234
52.5	2916	2917
55.0	2654	2661
57.5	2361	2350
60.0	2033	2035
62.5	1787	1798
65.0	1604	1614

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CANDELA TABULATION - (Cont.)

67.5	1441	1455
70.0	1266	1271
72.5	1081	1087
75.0	918	935
77.5	733	742
80.0	535	562
82.5	354	371
85.0	192	197
87.5	86	90
90.0	0	0

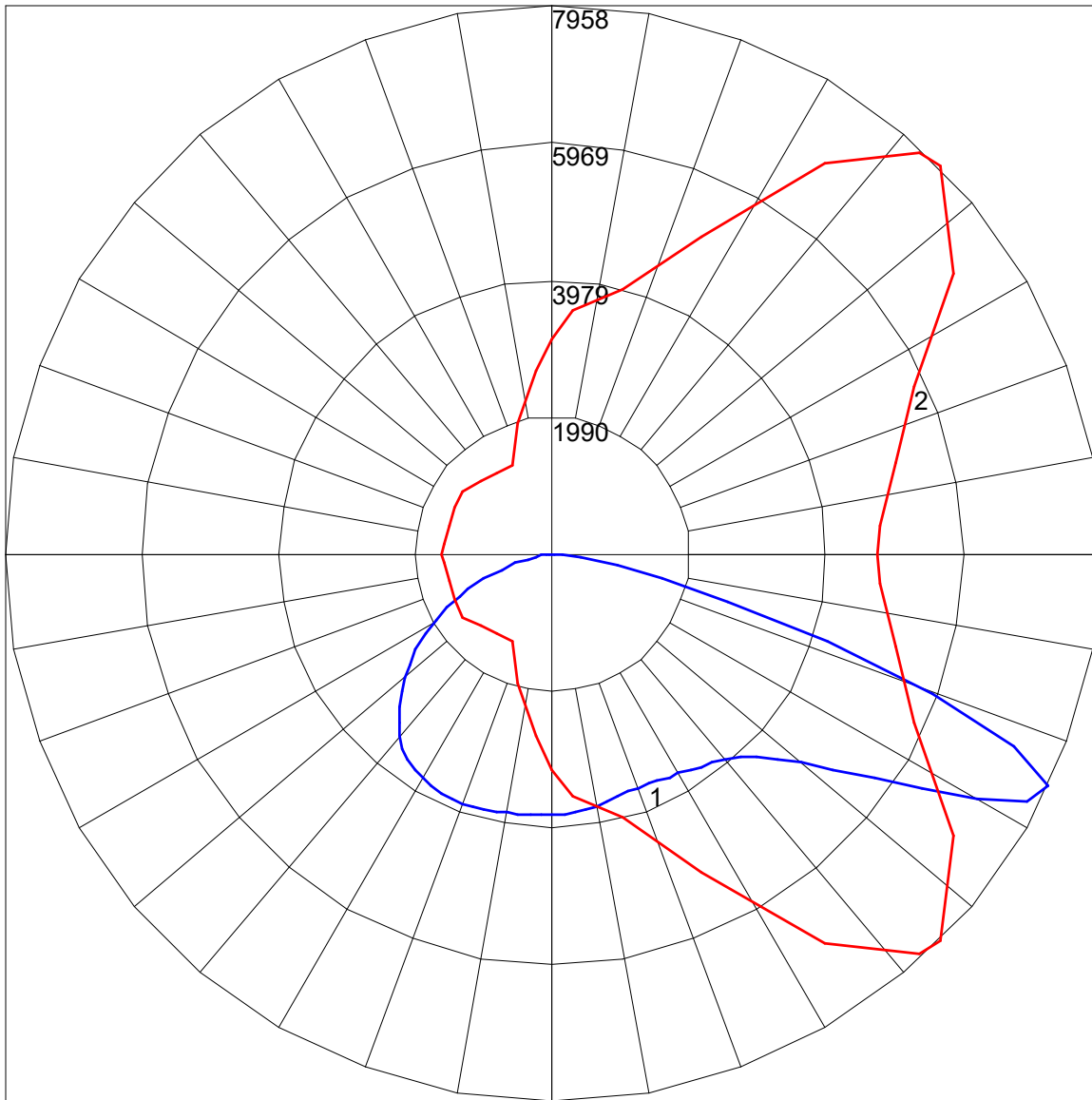
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

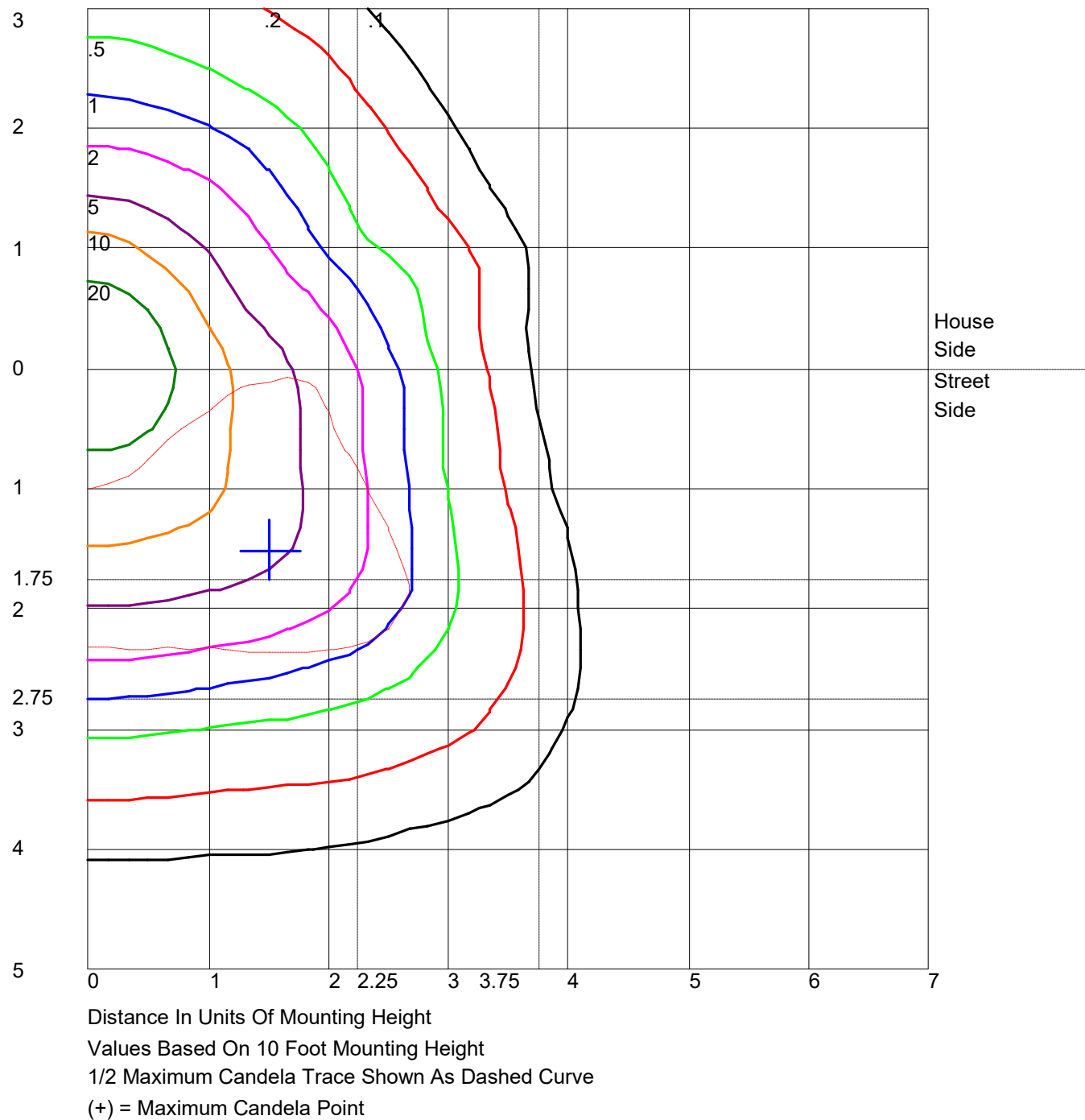
	Lumens	Percent Of Luminaire
Downward Street Side	10221.7	61.2
Downward House Side	6468.5	38.8
Downward Total	16690.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	16690.2	100.0

POLAR GRAPH

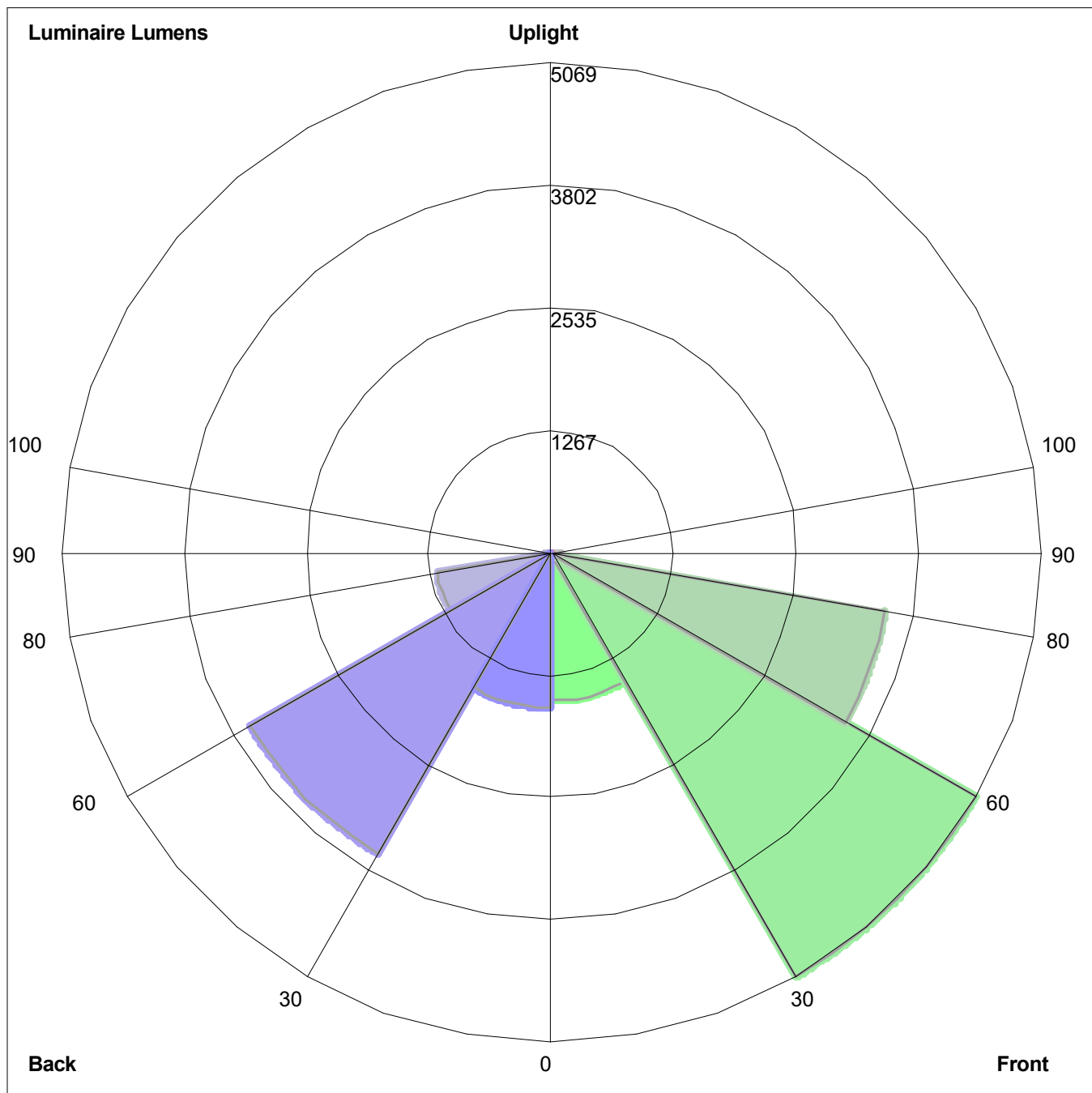


Maximum Candela = 7958 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1536.2, Medium= 5069.0, High=3509.5, Very High=107.0
Back: Low=1608.6, Medium=3591.8, High= 1201.0, Very High=67.0
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3