



IES ROAD REPORT
PHOTOMETRIC FILENAME : HLN-5W-LED-27L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8440
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/10/17
[TEST DATE]01/10/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]HLN-5W-LED-27L-40
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26696
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	238.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12182
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	12182
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1685 (6.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1377.4	N.A.	5.2
FM - Front-Medium (30-60)	5631.5	N.A.	21.1
FH - Front-High (60-80)	6183.5	N.A.	23.2
FVH - Front-Very High (80-90)	155.8	N.A.	0.6
BL - Back-Low (0-30)	1377.4	N.A.	5.2
BM - Back-Medium (30-60)	5631.5	N.A.	21.1
BH - Back-High (60-80)	6183.5	N.A.	23.2
BVH - Back-Very High (80-90)	155.8	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	26696.4	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882
2.5	2899	2887	2887	2889	2888	2891	2887	2890	2882	2882
5.0	2905	2894	2894	2898	2899	2903	2902	2905	2900	2900
7.5	2915	2906	2910	2913	2917	2923	2925	2929	2925	2927
10.0	2936	2926	2930	2939	2945	2955	2960	2966	2964	2966
12.5	2964	2953	2960	2975	2986	3001	3013	3015	3017	3017
15.0	3000	2997	3005	3025	3042	3061	3078	3079	3080	3081
17.5	3066	3058	3066	3093	3117	3141	3161	3165	3159	3159
20.0	3138	3133	3144	3181	3213	3241	3260	3265	3249	3245
22.5	3215	3212	3232	3284	3332	3372	3386	3378	3349	3341
25.0	3310	3307	3335	3403	3466	3518	3525	3503	3466	3443
27.5	3420	3419	3462	3540	3619	3679	3678	3640	3586	3556
30.0	3539	3539	3595	3690	3794	3857	3847	3789	3717	3678
32.5	3658	3660	3730	3855	3973	4045	4024	3946	3855	3804
35.0	3781	3786	3872	4017	4155	4239	4206	4107	4001	3939
37.5	3908	3916	4016	4188	4346	4438	4396	4279	4158	4084
40.0	4037	4047	4164	4352	4541	4656	4598	4461	4319	4236
42.5	4178	4186	4315	4520	4733	4867	4811	4643	4483	4387
45.0	4341	4347	4477	4695	4929	5077	5020	4833	4655	4542
47.5	4513	4519	4648	4879	5129	5284	5241	5043	4839	4722
50.0	4695	4706	4830	5072	5334	5511	5455	5247	5029	4916
52.5	4896	4908	5035	5280	5548	5741	5673	5458	5253	5123
55.0	5145	5154	5283	5512	5784	5979	5907	5706	5503	5385
57.5	5407	5415	5552	5793	6059	6262	6197	5987	5797	5663
60.0	5693	5710	5859	6122	6394	6628	6548	6344	6154	5993
62.5	6019	6045	6222	6513	6848	7116	7020	6786	6591	6449
65.0	6566	6609	6814	7087	7465	7823	7737	7447	7264	7146
67.5	7280	7309	7605	8047	8624	9086	8921	8572	8272	8053
70.0	6556	6627	7322	8450	10028	11209	10662	9452	8513	7838
72.5	4502	4570	5490	7014	9772	12182	10731	7980	6083	5197
75.0	1694	1732	2458	4133	6962	9455	7398	4245	2415	1813
77.5	612	621	786	1483	3173	5050	3190	1524	893	716
80.0	356	358	424	619	1097	1685	1218	785	511	448
82.5	207	202	232	334	548	753	615	428	285	273
85.0	124	124	136	184	287	382	303	219	173	178
87.5	75	77	83	107	152	186	151	126	104	100
90.0	0	0	0	0	0	0	0	0	0	0

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

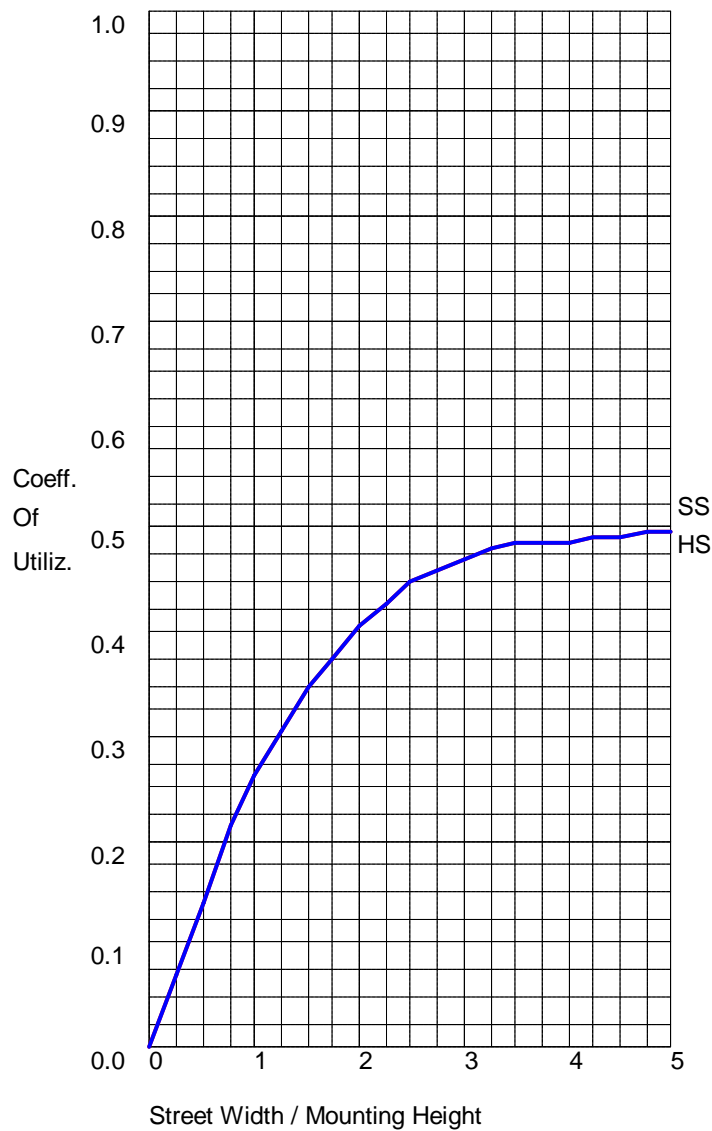
	<u>90</u>
0.0	2882
2.5	2885
5.0	2905
7.5	2933
10.0	2972
12.5	3024
15.0	3087
17.5	3162
20.0	3249
22.5	3344
25.0	3447
27.5	3559

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CANDELA TABULATION - (Cont.)

30.0	3679
32.5	3816
35.0	3947
37.5	4090
40.0	4235
42.5	4382
45.0	4533
47.5	4712
50.0	4905
52.5	5105
55.0	5356
57.5	5667
60.0	6008
62.5	6444
65.0	7136
67.5	8033
70.0	7777
72.5	5087
75.0	1829
77.5	689
80.0	439
82.5	268
85.0	174
87.5	99
90.0	0

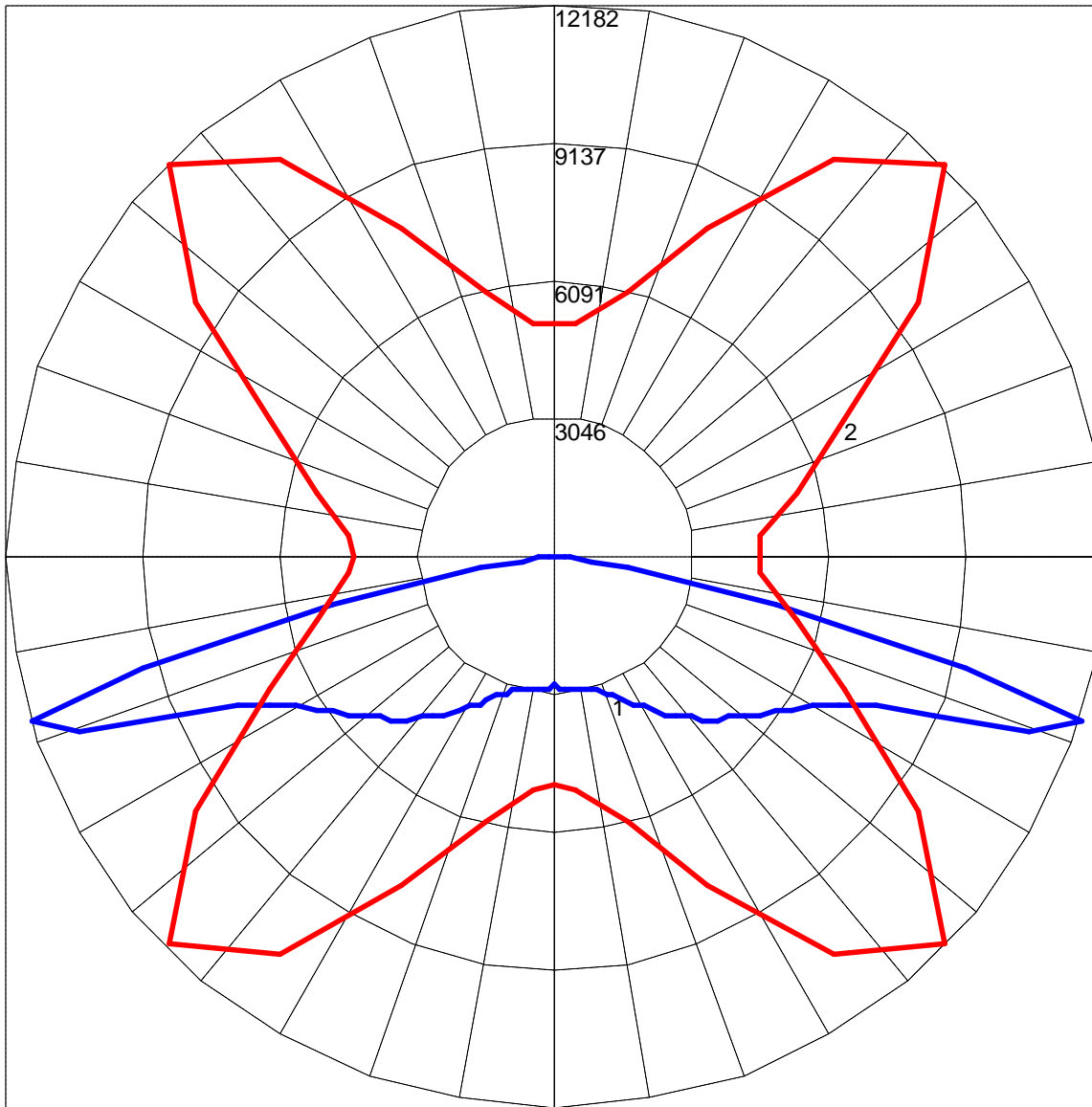
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

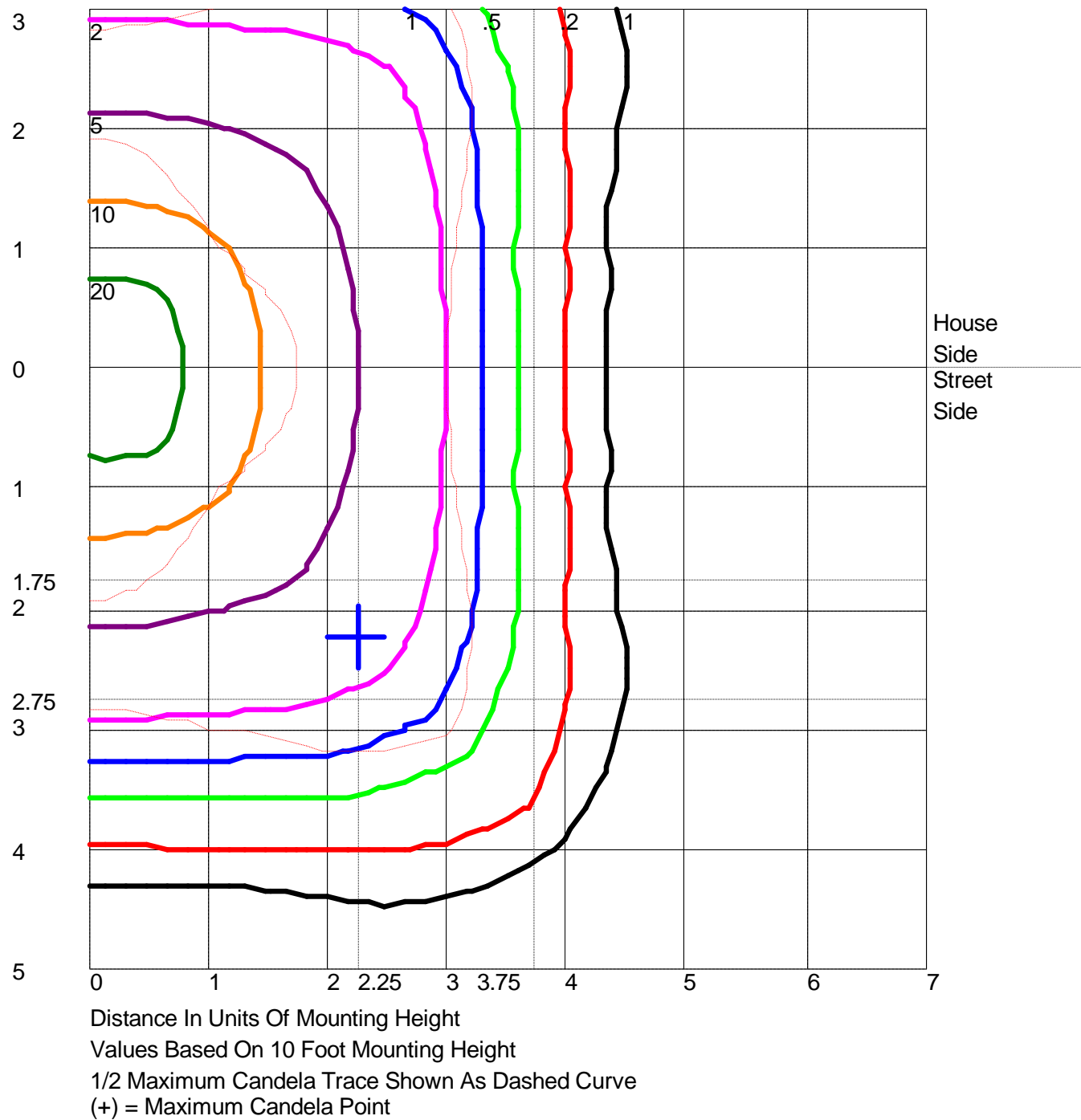
	Lumens	Percent Of Luminaire
Downward Street Side	13348.2	50.0
Downward House Side	13348.2	50.0
Downward Total	26696.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26696.4	100.0

POLAR GRAPH

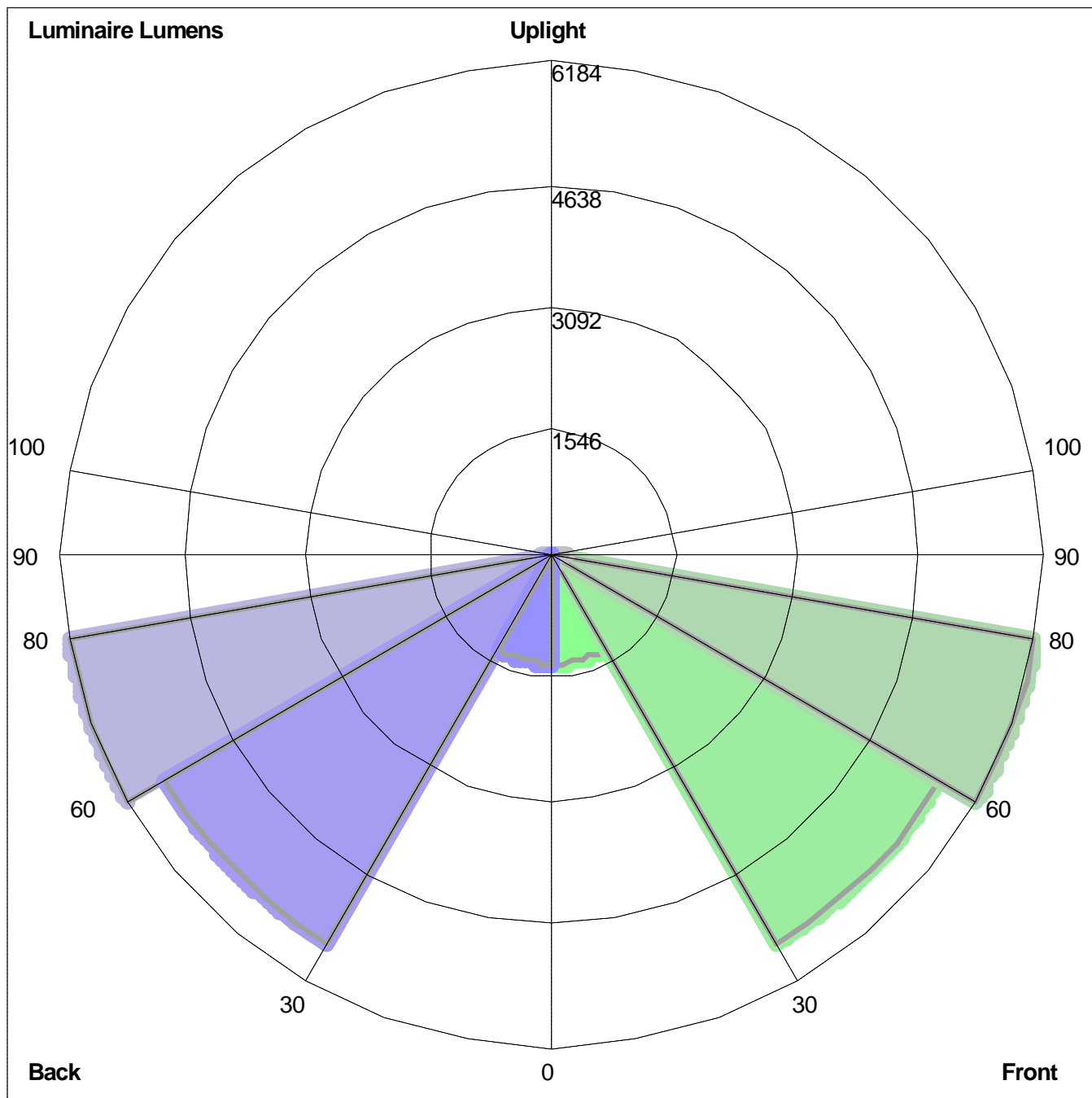


Maximum Candela = 12182 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1377.4, Medium=5631.5, High=6183.5, Very High=155.8
Back: Low=1377.4, Medium=5631.5, High=6183.5, Very High=155.8
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3