



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-5W-LED-32L-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-8449  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/12/17  
[TEST DATE]01/12/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]HLN-5W-LED-32L-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	32129
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	309.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13993
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	13993
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	2427 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1720.9	N.A.	5.4
FM - Front-Medium (30-60)	6838.5	N.A.	21.3
FH - Front-High (60-80)	7317.0	N.A.	22.8
FVH - Front-Very High (80-90)	188.1	N.A.	0.6
BL - Back-Low (0-30)	1720.9	N.A.	5.4
BM - Back-Medium (30-60)	6838.5	N.A.	21.3
BH - Back-High (60-80)	7317.0	N.A.	22.8
BVH - Back-Very High (80-90)	188.1	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	32129.0	N.A.	100.0
BUG Rating	B5-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	3580	3580	3580	3580	3580	3580	3580	3580	3580	3580
2.5	3589	3578	3588	3591	3591	3539	3593	3592	3586	3577
5.0	3607	3596	3607	3613	3613	3505	3612	3613	3605	3600
7.5	3641	3630	3640	3650	3651	3492	3650	3650	3641	3636
10.0	3689	3680	3694	3701	3702	3496	3702	3700	3690	3687
12.5	3748	3747	3761	3767	3771	3523	3775	3772	3757	3751
15.0	3821	3829	3840	3850	3857	3567	3862	3856	3836	3826
17.5	3915	3922	3936	3953	3966	3647	3970	3960	3939	3917
20.0	4017	4020	4040	4068	4086	3744	4095	4081	4053	4020
22.5	4121	4132	4154	4197	4228	3864	4241	4226	4187	4141
25.0	4234	4248	4282	4337	4387	4002	4410	4392	4331	4275
27.5	4361	4382	4431	4493	4564	4159	4593	4570	4494	4424
30.0	4499	4525	4581	4658	4752	4333	4785	4763	4668	4577
32.5	4641	4670	4737	4841	4949	4521	4991	4967	4849	4740
35.0	4786	4818	4904	5041	5156	4726	5217	5174	5039	4913
37.5	4924	4957	5063	5228	5372	4937	5443	5389	5237	5092
40.0	5068	5108	5231	5411	5594	5168	5672	5613	5441	5274
42.5	5217	5278	5409	5607	5812	5404	5908	5844	5650	5463
45.0	5372	5448	5587	5808	6035	5647	6159	6084	5853	5650
47.5	5573	5644	5775	6015	6265	5918	6402	6324	6082	5847
50.0	5789	5846	5986	6234	6499	6164	6640	6574	6323	6052
52.5	6004	6060	6218	6473	6750	6416	6915	6828	6566	6294
55.0	6274	6340	6482	6728	7025	6699	7206	7098	6840	6574
57.5	6550	6626	6793	7058	7340	7008	7522	7423	7155	6866
60.0	6908	6983	7139	7438	7726	7423	7921	7811	7524	7242
62.5	7293	7397	7585	7902	8272	7980	8486	8322	8028	7731
65.0	7904	8014	8262	8581	9022	8708	9297	9090	8732	8421
67.5	8525	8665	9078	9646	10332	10168	10677	10328	9866	9487
70.0	7698	7826	8734	10077	11954	12550	13066	12245	10949	9805
72.5	5181	5272	6351	8400	11665	13909	13993	12528	9495	7190
75.0	2013	2058	2734	4763	8023	12095	11087	8914	5324	3086
77.5	716	723	920	1633	3546	7008	5741	3893	1900	1102
80.0	407	407	486	704	1280	2427	1951	1444	959	620
82.5	238	236	269	384	619	1028	860	715	528	352
85.0	143	144	157	210	324	510	432	360	278	209
87.5	89	91	98	124	172	252	213	185	153	127
90.0	0	0	0	0	0	0	0	0	0	0

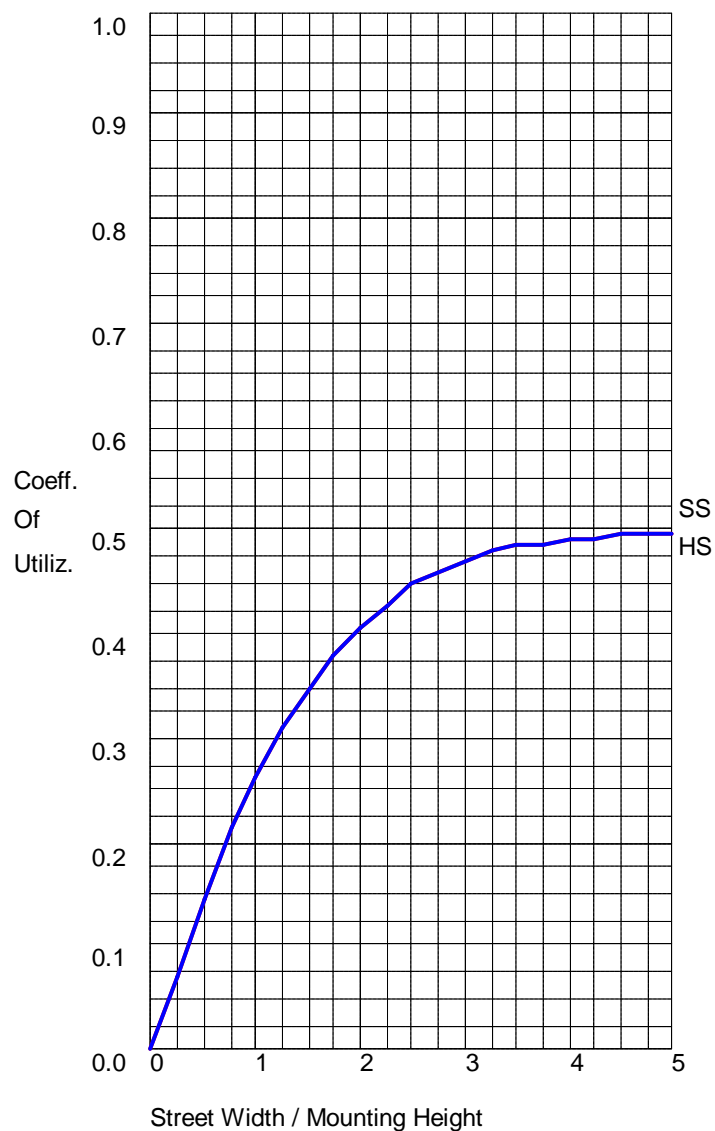
Vert. Angles	Horizontal Angles	
	<u>85.0</u>	<u>90.0</u>
0.0	3580	3580
2.5	3575	3572
5.0	3595	3589
7.5	3630	3628
10.0	3678	3681
12.5	3741	3744
15.0	3813	3816
17.5	3899	3905
20.0	3998	4002
22.5	4109	4110
25.0	4226	4229
27.5	4355	4359

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	4506	4499
<b>32.5</b>	4662	4655
<b>35.0</b>	4822	4819
<b>37.5</b>	4994	4971
<b>40.0</b>	5159	5139
<b>42.5</b>	5325	5308
<b>45.0</b>	5497	5472
<b>47.5</b>	5688	5664
<b>50.0</b>	5889	5867
<b>52.5</b>	6110	6085
<b>55.0</b>	6374	6333
<b>57.5</b>	6665	6626
<b>60.0</b>	7034	6995
<b>62.5</b>	7535	7485
<b>65.0</b>	8200	8121
<b>67.5</b>	9168	9087
<b>70.0</b>	9028	8893
<b>72.5</b>	6223	6069
<b>75.0</b>	2366	2393
<b>77.5</b>	882	867
<b>80.0</b>	538	529
<b>82.5</b>	331	325
<b>85.0</b>	215	210
<b>87.5</b>	121	119
<b>90.0</b>	0	0

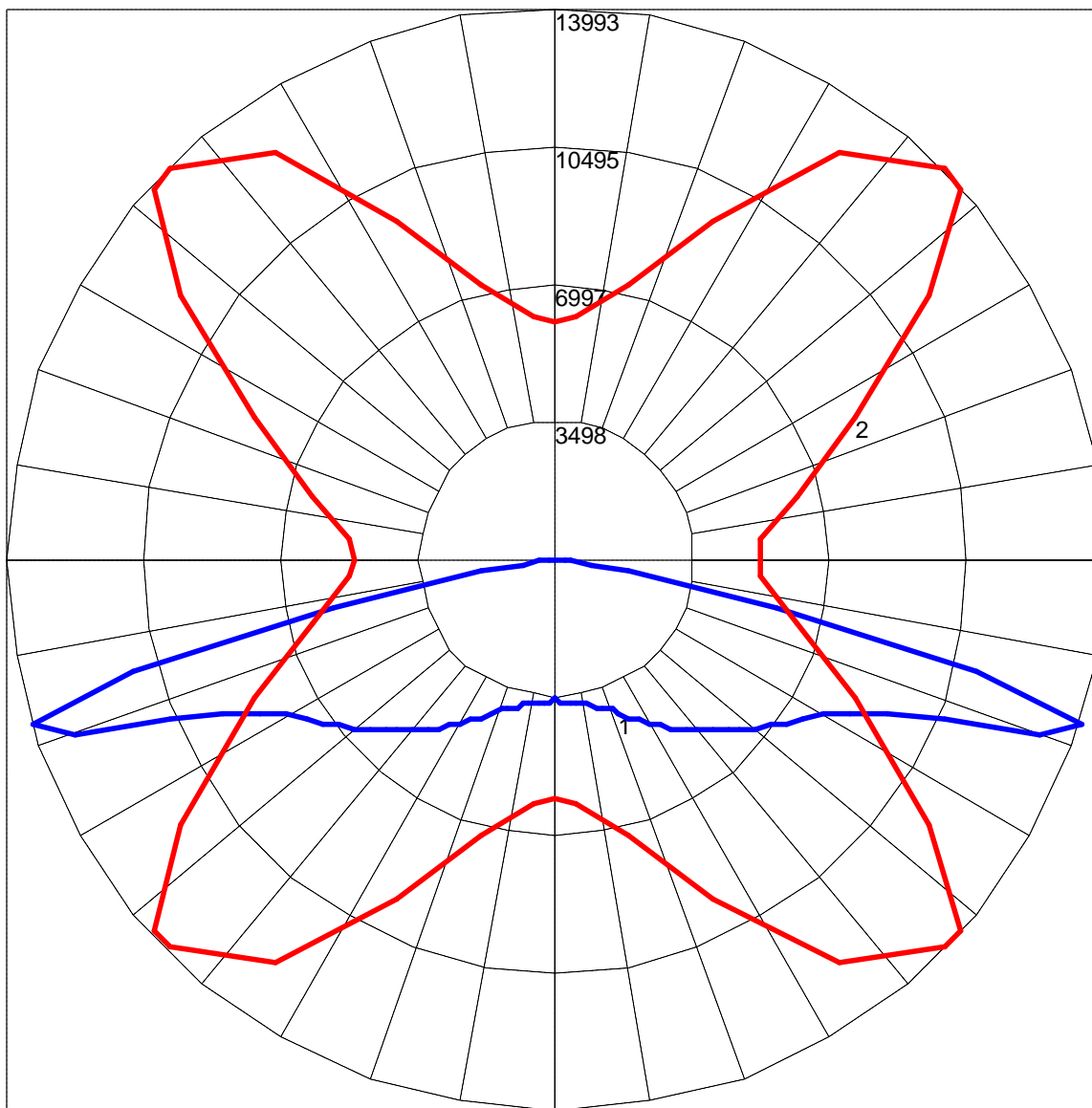
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

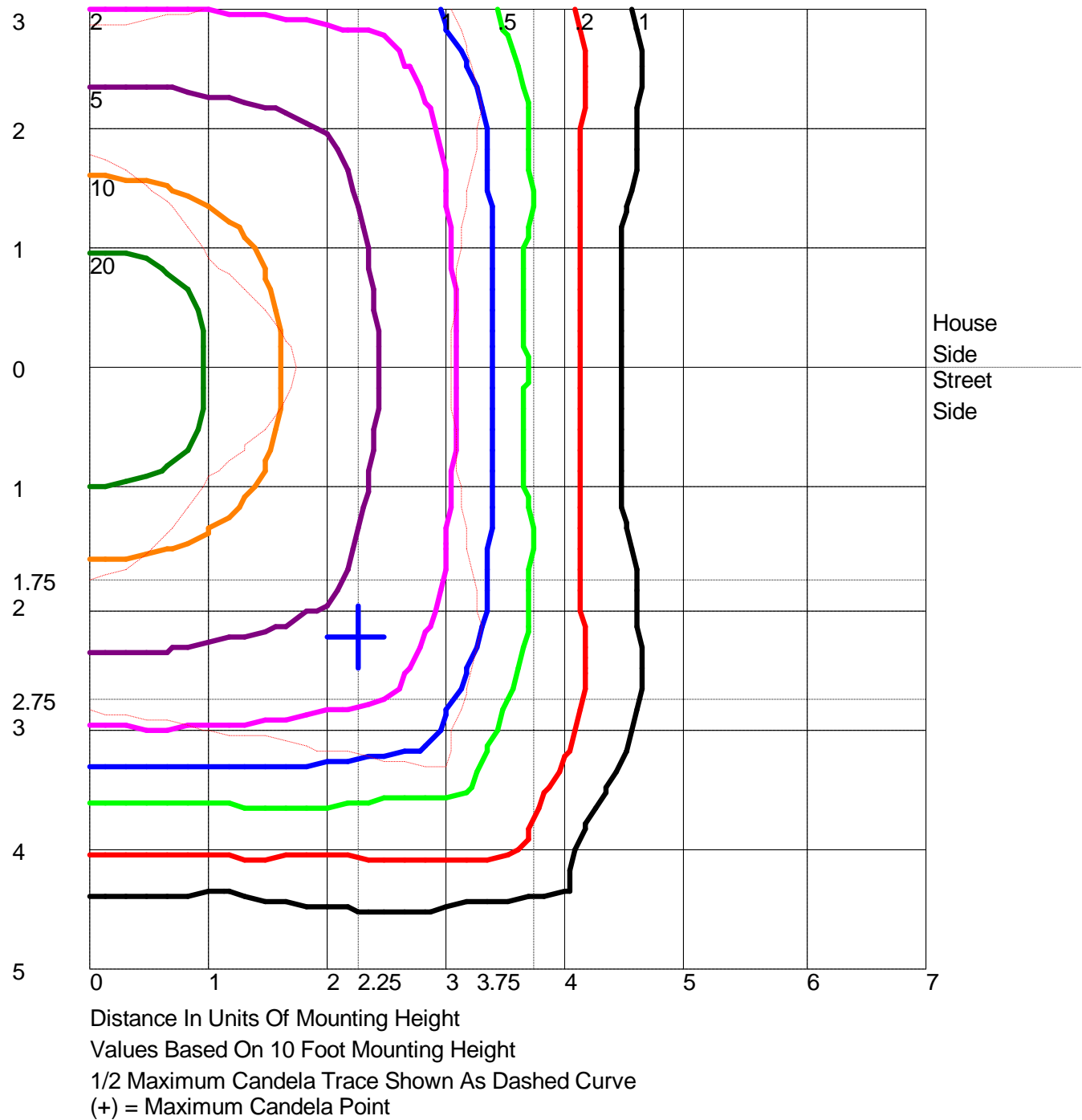
	Lumens	Percent Of Luminaire
Downward Street Side	16064.4	50.0
Downward House Side	16064.4	50.0
Downward Total	32128.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32128.8	100.0

POLAR GRAPH

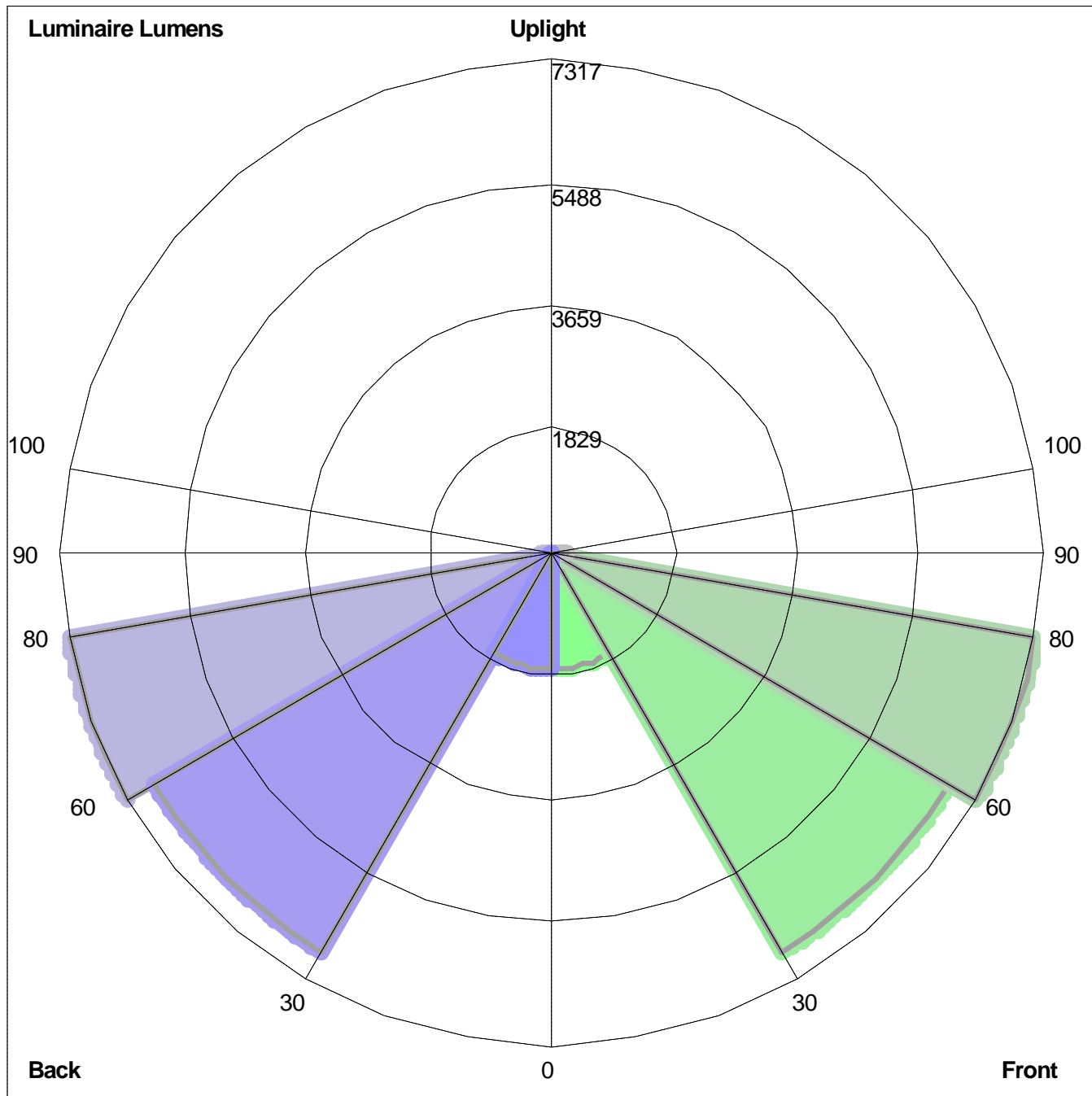


Maximum Candela = 13993 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1720.9, Medium=6838.5, High= 7317.0, Very High=188.1  
Back: Low=1720.9, Medium=6838.5, High= 7317.0, Very High=188.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3