



IES ROAD REPORT
PHOTOMETRIC FILENAME : HLN-2-LED-27L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8464
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/17/17
[TEST DATE]01/17/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]HLN-2-LED-27L-50
[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 II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27119
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	237.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21179
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	21179
Maximum Candela Angle (<90 Degrees Vertical)	80H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1392 (5.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1951.5	N.A.	7.2
FM - Front-Medium (30-60)	9147.7	N.A.	33.7
FH - Front-High (60-80)	6021.4	N.A.	22.2
FVH - Front-Very High (80-90)	100.6	N.A.	0.4
BL - Back-Low (0-30)	1612.1	N.A.	5.9
BM - Back-Medium (30-60)	5837.2	N.A.	21.5
BH - Back-High (60-80)	2342.6	N.A.	8.6
BVH - Back-Very High (80-90)	106.3	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	27119.4	N.A.	100.0
BUG Rating	B4-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>80</u>
0.0	3943	3943	3943	3943	3943	3943	3943	3943	3943	3943
2.5	3996	3963	3982	3984	3987	3977	3966	3952	3956	3918
5.0	4033	4000	4022	4025	4028	4019	4007	3993	3995	3954
7.5	4083	4049	4076	4079	4086	4079	4068	4057	4061	4017
10.0	4144	4110	4139	4147	4160	4163	4154	4148	4155	4107
12.5	4199	4173	4208	4227	4258	4274	4272	4279	4275	4234
15.0	4226	4208	4255	4302	4358	4405	4417	4441	4432	4387
17.5	4236	4221	4280	4354	4450	4541	4604	4634	4619	4571
20.0	4262	4250	4314	4405	4527	4670	4792	4853	4833	4781
22.5	4301	4290	4359	4465	4607	4784	4977	5091	5074	5028
25.0	4347	4338	4414	4534	4700	4889	5139	5343	5357	5294
27.5	4401	4390	4469	4612	4800	5003	5281	5593	5654	5591
30.0	4491	4486	4567	4722	4933	5138	5426	5830	5976	5918
32.5	4654	4650	4733	4880	5096	5303	5590	6049	6308	6267
35.0	4894	4894	4972	5100	5305	5511	5789	6258	6669	6640
37.5	5231	5234	5291	5410	5571	5794	6027	6463	7013	7031
40.0	5681	5687	5724	5810	5931	6139	6328	6681	7358	7437
42.5	6281	6334	6344	6362	6414	6585	6684	6928	7691	7879
45.0	7136	7159	7109	7101	7084	7174	7146	7212	8024	8332
47.5	7928	7959	7959	7958	7959	8016	7835	7573	8397	8849
50.0	8449	8495	8578	8782	8942	9163	8803	8072	8838	9496
52.5	8445	8500	8692	9136	9710	10534	10218	8817	9406	10257
55.0	7955	8010	8313	8911	9878	11508	12056	9970	10082	11182
57.5	7047	7094	7447	8095	9250	11670	13858	11704	10984	12422
60.0	5707	5726	5961	6559	7796	10768	15176	13969	12260	13898
62.5	3884	3884	3834	4244	5461	8585	15768	16819	13748	15933
65.0	2488	2406	2313	2369	3030	5189	15093	18781	15606	18575
67.5	1396	1387	1417	1405	1684	2476	11657	19020	17924	21179
70.0	535	561	628	787	1036	1397	5734	16455	18955	21104
72.5	280	292	305	406	587	904	2428	10660	16162	13994
75.0	196	204	200	265	362	580	1329	4754	7678	5097
77.5	156	165	164	202	263	399	743	2492	2970	1701
80.0	137	143	127	147	200	309	408	1211	1392	854
82.5	110	113	95	101	127	233	272	494	648	428
85.0	70	74	69	71	80	143	194	212	338	250
87.5	34	37	37	37	43	70	103	111	140	131
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	3943	3943	3943	3943	3943	3943	3943	3943	3943	3943
2.5	3953	3953	3953	3944	3944	3934	3937	3937	3931	3924
5.0	3987	3981	3975	3957	3943	3916	3898	3879	3857	3833
7.5	4048	4037	4028	3993	3953	3891	3832	3775	3716	3664
10.0	4138	4121	4106	4047	3972	3856	3733	3618	3518	3442
12.5	4253	4235	4205	4116	3991	3797	3603	3430	3312	3249
15.0	4403	4375	4340	4202	4005	3719	3462	3279	3198	3169
17.5	4581	4554	4498	4305	4019	3630	3338	3209	3195	3214
20.0	4783	4745	4672	4414	4022	3534	3264	3226	3280	3331
22.5	5011	4965	4876	4542	4014	3441	3265	3315	3412	3486
25.0	5288	5218	5113	4687	3987	3395	3337	3448	3580	3683
27.5	5583	5504	5377	4842	3951	3413	3458	3620	3804	3946

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CANDELA TABULATION - (Cont.)

30.0	5905	5824	5681	5009	3924	3500	3626	3851	4106	4296
32.5	6255	6180	6017	5176	3934	3650	3845	4158	4478	4699
35.0	6640	6563	6374	5350	4012	3863	4135	4511	4866	5102
37.5	7070	6978	6774	5499	4165	4132	4462	4847	5213	5463
40.0	7509	7412	7176	5636	4386	4422	4742	5126	5515	5801
42.5	7976	7905	7602	5764	4641	4677	4959	5368	5758	5993
45.0	8494	8452	8058	5882	4877	4861	5098	5457	5724	5826
47.5	9080	9044	8568	5988	5040	4942	5099	5254	5291	5242
50.0	9773	9722	9080	6060	5110	4890	4845	4753	4631	4524
52.5	10673	10537	9644	6102	5067	4631	4401	4143	3922	3776
55.0	11695	11492	10239	6135	4939	4244	3884	3521	3224	3068
57.5	13018	12663	10905	6149	4746	3825	3352	2969	2684	2635
60.0	14672	13908	11581	6191	4557	3416	2882	2607	2341	2308
62.5	16765	15389	12058	6160	4369	3042	2547	2382	1996	1899
65.0	18894	16808	12129	5908	4109	2714	2298	2090	1603	1483
67.5	20450	16819	10871	5183	3601	2301	1929	1695	1181	1023
70.0	18588	13556	7162	3663	2694	1716	1466	1238	790	640
72.5	10667	6925	3322	2014	1732	1150	1035	774	518	454
75.0	3572	2520	1625	1082	962	782	649	501	372	331
77.5	1164	934	817	649	612	550	426	368	290	261
80.0	594	516	484	479	470	365	310	275	277	273
82.5	346	282	273	391	317	250	224	230	480	510
85.0	214	170	173	302	174	169	162	134	235	86
87.5	125	93	105	105	97	83	48	42	149	35
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

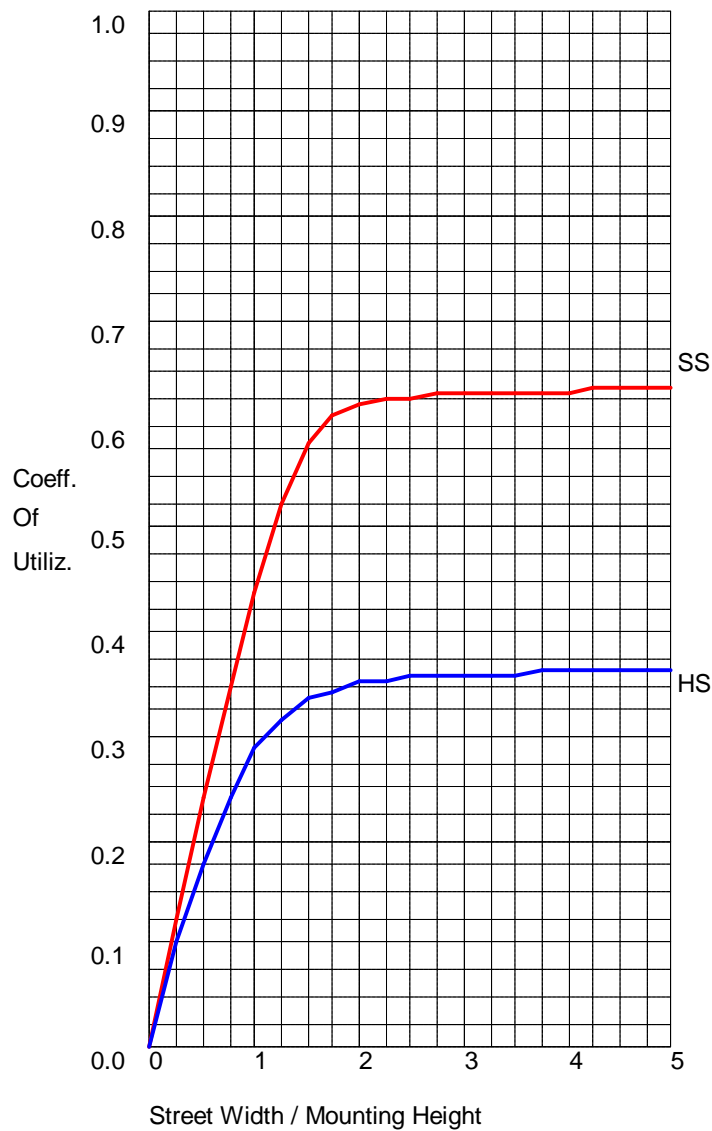
	175	180
0.0	3943	3943
2.5	3905	3905
5.0	3809	3809
7.5	3629	3628
10.0	3396	3393
12.5	3210	3207
15.0	3152	3149
17.5	3214	3215
20.0	3351	3343
22.5	3522	3511
25.0	3737	3751
27.5	4033	4046
30.0	4411	4425
32.5	4831	4844
35.0	5248	5238
37.5	5606	5587
40.0	5914	5895
42.5	6067	6035
45.0	5819	5782
47.5	5197	5196
50.0	4473	4481
52.5	3680	3606
55.0	2987	2924
57.5	2580	2525
60.0	2221	2187
62.5	1806	1776
65.0	1378	1345

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CANDELA TABULATION - (Cont.)

67.5	966	933
70.0	606	594
72.5	450	456
75.0	342	350
77.5	265	272
80.0	342	347
82.5	537	535
85.0	63	59
87.5	24	23
90.0	0	0

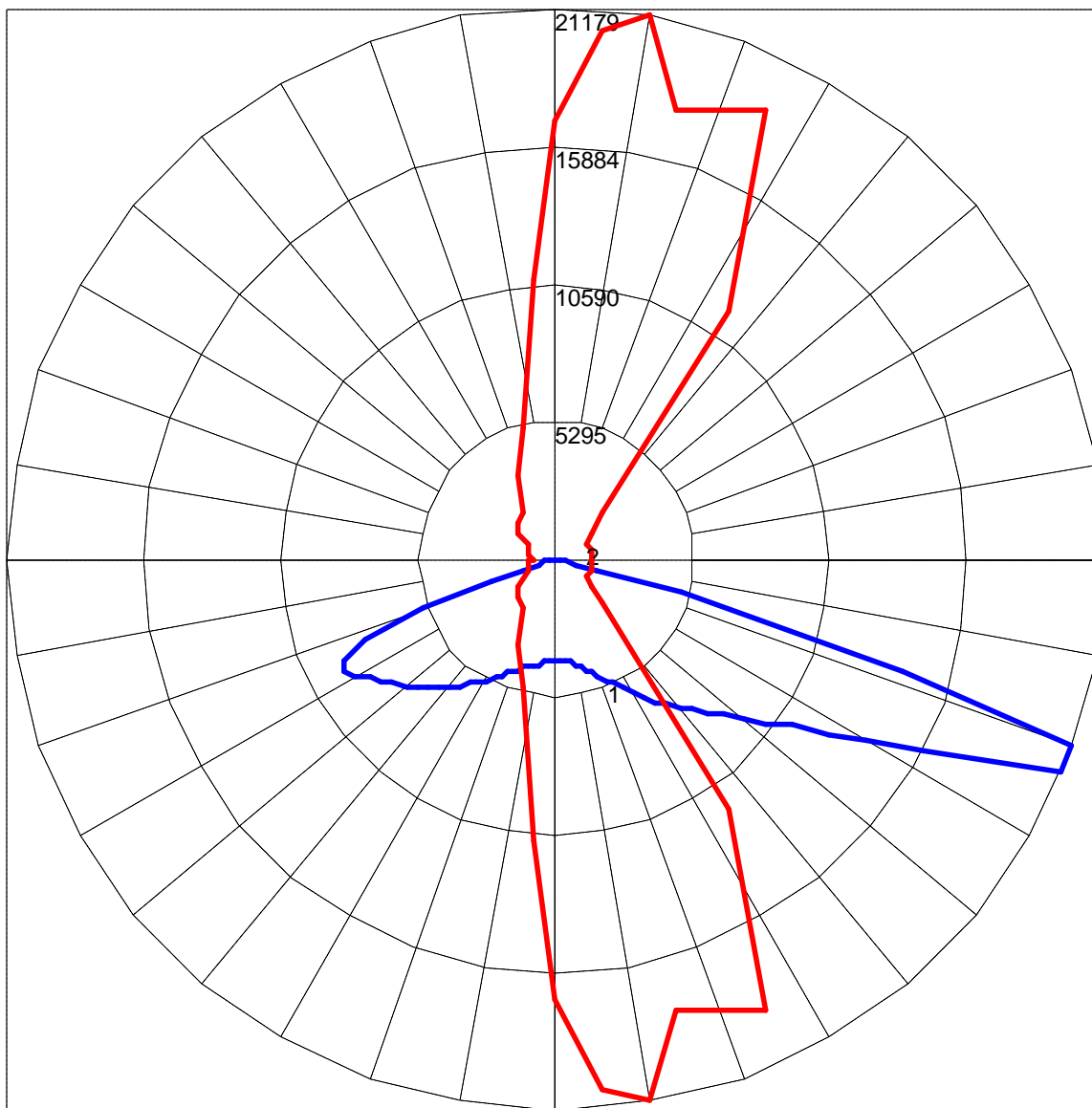
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

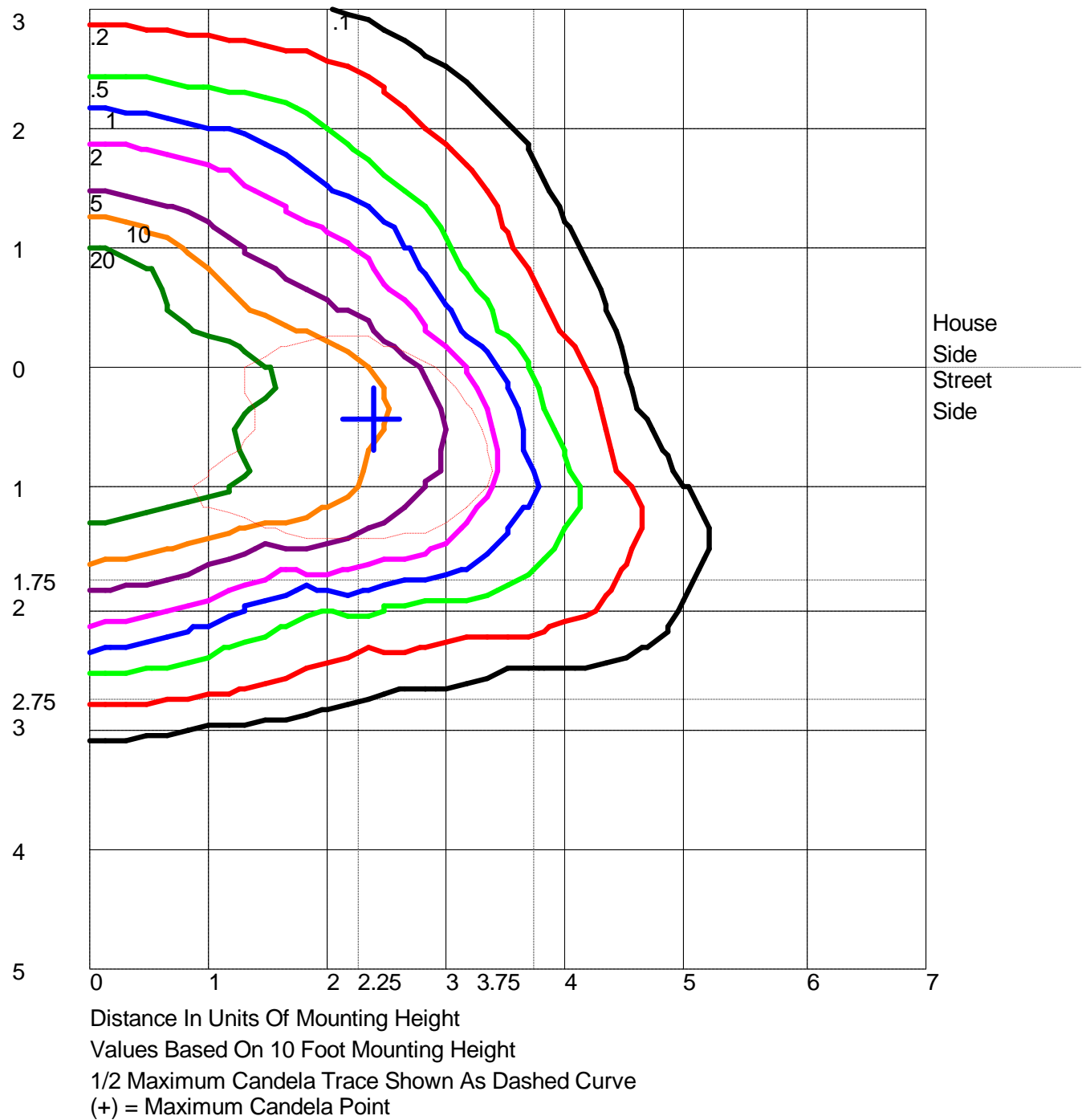
	Lumens	Percent Of Luminaire
Downward Street Side	17221.2	63.5
Downward House Side	9898.1	36.5
Downward Total	27119.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27119.3	100.0

POLAR GRAPH

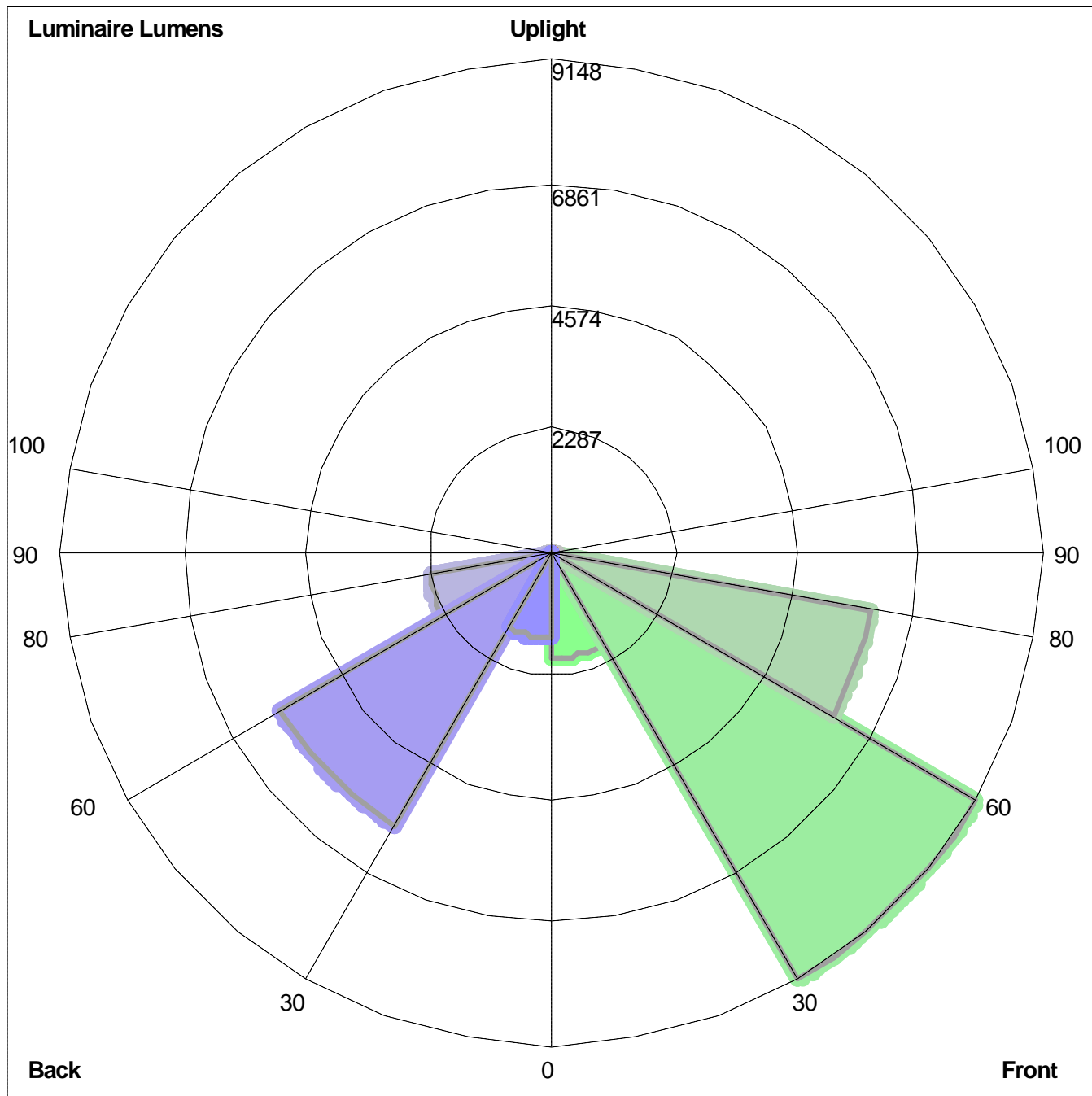


Maximum Candela = 21179 Located At Horizontal Angle = 80, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1951.5, Medium=9147.7, High=6021.4, Very High=100.6
Back: Low=1612.1, Medium=5837.2, High=2342.6, Very High=106.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3