



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-29-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-7786

[TESTLAB]LSI INDUSTRIES, INC

[ISSUEDATE]11/21/16

[TESTDATE]05/05/16

[MANUFAC]LSI INDUSTRIES, INC

[LUMCAT]XMR-FT-LED-29-50

[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29037
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19266
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	19266
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	6350 (21.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1943.7	N.A.	6.7
FM - Front-Medium (30-60)	8108.2	N.A.	27.9
FH - Front-High (60-80)	10645.4	N.A.	36.7
FVH - Front-Very High (80-90)	506.8	N.A.	1.7
BL - Back-Low (0-30)	1864.1	N.A.	6.4
BM - Back-Medium (30-60)	4163.8	N.A.	14.3
BH - Back-High (60-80)	1680.1	N.A.	5.8
BVH - Back-Very High (80-90)	124.9	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	29037.0	N.A.	100.0
BUG Rating	B3-U0-G4		

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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	4233	4233	4233	4233	4233	4233	4233	4233	4233	4233
2.5	4240	4241	4235	4243	4241	4242	4251	4252	4250	4241
5.0	4178	4179	4182	4203	4219	4235	4254	4280	4298	4300
7.5	4134	4131	4137	4167	4200	4231	4254	4308	4357	4396
10.0	4124	4121	4130	4169	4209	4248	4281	4353	4432	4503
12.5	4144	4142	4152	4196	4248	4296	4329	4418	4517	4623
15.0	4172	4172	4191	4240	4304	4363	4398	4498	4616	4744
17.5	4215	4216	4238	4299	4367	4438	4474	4581	4711	4858
20.0	4281	4282	4307	4369	4437	4515	4550	4662	4795	4956
22.5	4372	4378	4395	4455	4519	4587	4619	4736	4867	5037
25.0	4492	4500	4509	4559	4607	4662	4688	4793	4921	5089
27.5	4641	4648	4654	4684	4709	4742	4755	4837	4957	5119
30.0	4827	4818	4819	4829	4819	4828	4832	4877	4976	5126
32.5	5009	4999	4998	4991	4953	4928	4924	4925	4986	5112
35.0	5211	5197	5186	5165	5107	5063	5045	4992	4996	5089
37.5	5445	5430	5409	5370	5291	5247	5217	5095	5023	5070
40.0	5748	5750	5699	5639	5548	5472	5434	5264	5091	5072
42.5	6138	6140	6076	5995	5893	5796	5734	5525	5233	5115
45.0	6679	6681	6595	6535	6385	6242	6172	5901	5454	5219
47.5	7400	7404	7405	7319	7088	6884	6791	6432	5817	5433
50.0	8239	8248	8285	8272	8023	7745	7622	7212	6337	5761
52.5	9120	9188	9265	9396	9149	8889	8679	8183	7048	6235
55.0	9860	9942	10176	10585	10505	10186	9970	9411	7987	6937
57.5	10435	10486	10863	11648	11869	11678	11544	10952	9183	7732
60.0	10750	10837	11373	12491	13141	13241	13229	12673	10572	8647
62.5	10985	11090	11776	13211	14272	15031	15105	14624	12094	9699
65.0	11153	11261	12143	13809	15510	16640	16798	16614	13515	10480
67.5	10713	10783	11941	14271	16547	17993	18129	17928	14351	10366
70.0	10160	10205	11143	14076	17436	19109	19209	17973	13650	8808
72.5	8629	8578	9725	12550	17658	19233	19266	16210	10462	5086
75.0	5170	5527	7089	9972	15342	17326	17090	12223	5344	2264
77.5	2322	2597	3928	6443	9992	12436	12131	6648	2343	1288
80.0	1015	1170	2126	3546	4857	6350	6088	3169	1313	800
82.5	576	616	1337	2061	2256	3024	2854	1426	780	438
85.0	383	420	893	1330	1567	1260	1106	493	376	210
87.5	266	295	622	700	966	236	123	117	89	83
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	4233	4233	4233	4233	4233	4233	4233	4233	4233	4233
2.5	4250	4267	4263	4238	4247	4250	4255	4253	4245	4240
5.0	4310	4325	4318	4298	4311	4315	4319	4300	4277	4263
7.5	4410	4423	4417	4391	4398	4366	4310	4244	4199	4179
10.0	4543	4554	4542	4509	4470	4358	4273	4221	4196	4197
12.5	4693	4707	4688	4626	4510	4348	4282	4267	4256	4250
15.0	4848	4868	4839	4738	4525	4353	4327	4292	4279	4282
17.5	4995	5025	4988	4833	4530	4376	4333	4304	4292	4291
20.0	5124	5165	5126	4906	4528	4392	4331	4299	4281	4271
22.5	5223	5281	5244	4950	4522	4375	4318	4274	4247	4234
25.0	5293	5366	5336	4967	4507	4345	4284	4232	4199	4185
27.5	5334	5416	5399	4956	4476	4308	4233	4167	4139	4120

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CANDELA TABULATION - (Cont.)

30.0	5343	5432	5421	4916	4420	4253	4161	4095	4063	4046
32.5	5317	5410	5409	4855	4341	4173	4077	4005	3975	3958
35.0	5271	5356	5362	4771	4244	4077	3980	3903	3861	3864
37.5	5215	5289	5295	4669	4128	3967	3865	3781	3747	3757
40.0	5170	5221	5219	4560	3998	3843	3726	3646	3617	3666
42.5	5149	5165	5145	4434	3843	3693	3573	3492	3493	3845
45.0	5182	5153	5092	4314	3670	3535	3400	3323	3547	3712
47.5	5286	5196	5080	4202	3461	3358	3212	3158	3579	3352
50.0	5474	5307	5115	4094	3249	3166	3015	3073	3369	2978
52.5	5772	5514	5220	4002	3027	2946	2801	3016	3029	2710
55.0	6219	5815	5395	3927	2784	2726	2591	2870	2672	2497
57.5	6781	6209	5595	3854	2533	2504	2394	2645	2333	2249
60.0	7356	6606	5784	3787	2291	2297	2227	2378	2030	2023
62.5	7917	6951	5755	3687	2077	2109	2053	2100	1792	1819
65.0	8126	6884	5092	3424	1871	1912	1853	1888	1564	1645
67.5	7462	5942	3740	2887	1625	1716	1662	1714	1352	1515
70.0	5575	4138	2262	2154	1387	1490	1481	1569	1175	1437
72.5	2741	1989	1295	1394	1132	1253	1292	1387	1027	1376
75.0	1157	881	706	892	849	983	1095	1149	851	1230
77.5	708	540	414	564	595	689	858	845	600	973
80.0	463	352	284	393	427	491	562	527	449	730
82.5	259	198	186	271	313	298	370	394	321	477
85.0	136	101	109	170	164	176	234	228	186	279
87.5	49	34	42	65	65	75	105	99	97	116
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

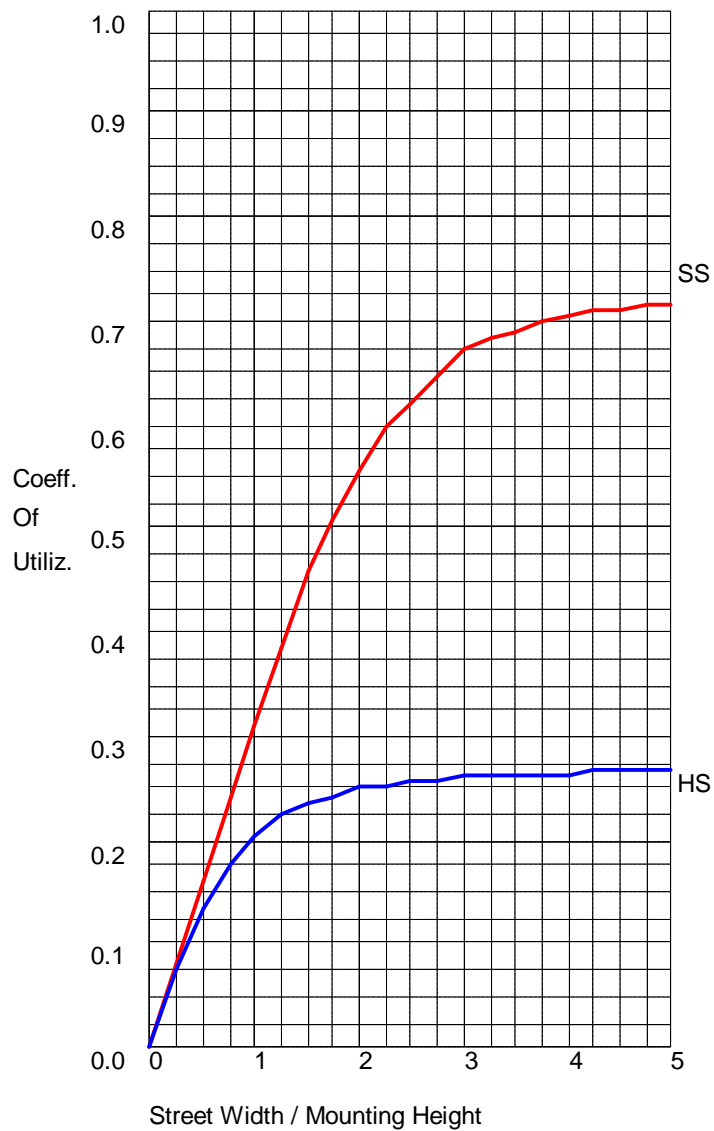
	<u>175.0</u>	<u>180.0</u>
0.0	4233	4233
2.5	4233	4213
5.0	4251	4228
7.5	4163	4142
10.0	4187	4169
12.5	4241	4221
15.0	4276	4254
17.5	4284	4263
20.0	4263	4242
22.5	4227	4206
25.0	4180	4160
27.5	4118	4098
30.0	4044	4027
32.5	3963	3948
35.0	3875	3860
37.5	3777	3766
40.0	3834	3848
42.5	3804	3755
45.0	3400	3345
47.5	3093	3061
50.0	2881	2856
52.5	2671	2648
55.0	2457	2436
57.5	2187	2158
60.0	1968	1943
62.5	1756	1729
65.0	1552	1530

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CANDELA TABULATION - (Cont.)

67.5	1412	1365
70.0	1343	1290
72.5	1321	1263
75.0	1241	1188
77.5	1125	1092
80.0	923	919
82.5	576	577
85.0	339	328
87.5	122	98
90.0	0	0

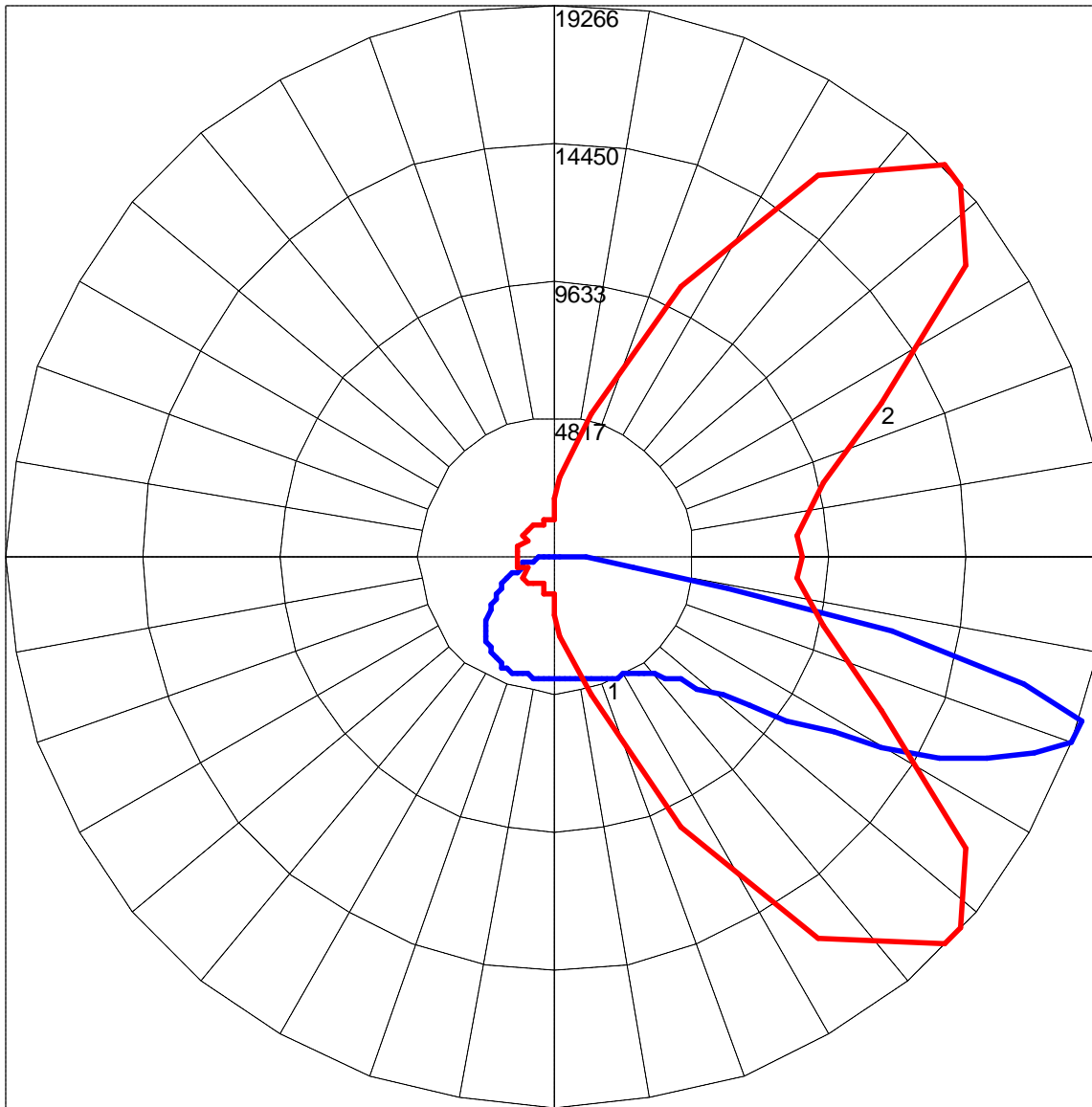
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

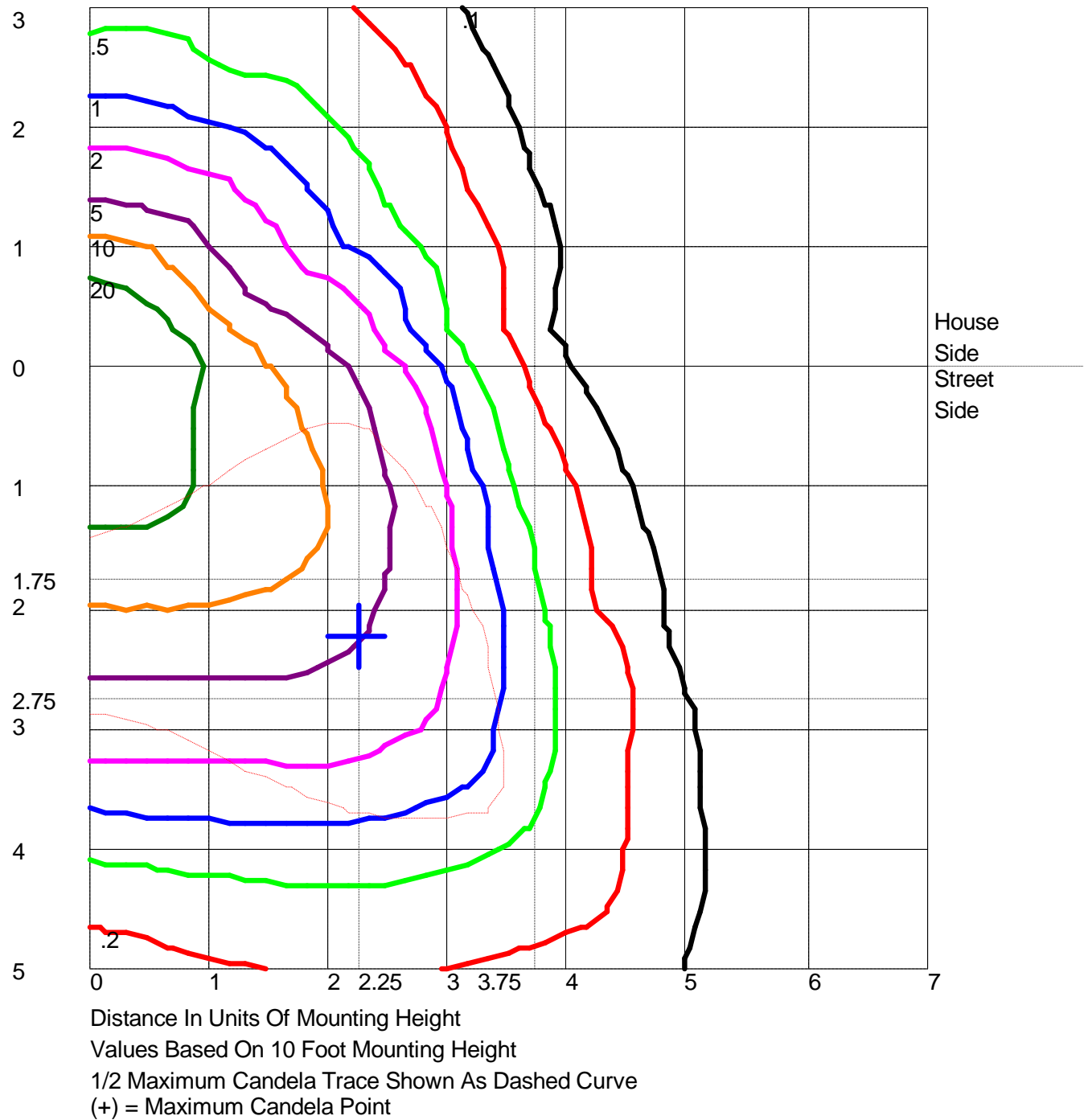
	Lumens	Percent Of Luminaire
Downward Street Side	21204.2	73.0
Downward House Side	7832.9	27.0
Downward Total	29037.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29037.1	100.0

POLAR GRAPH

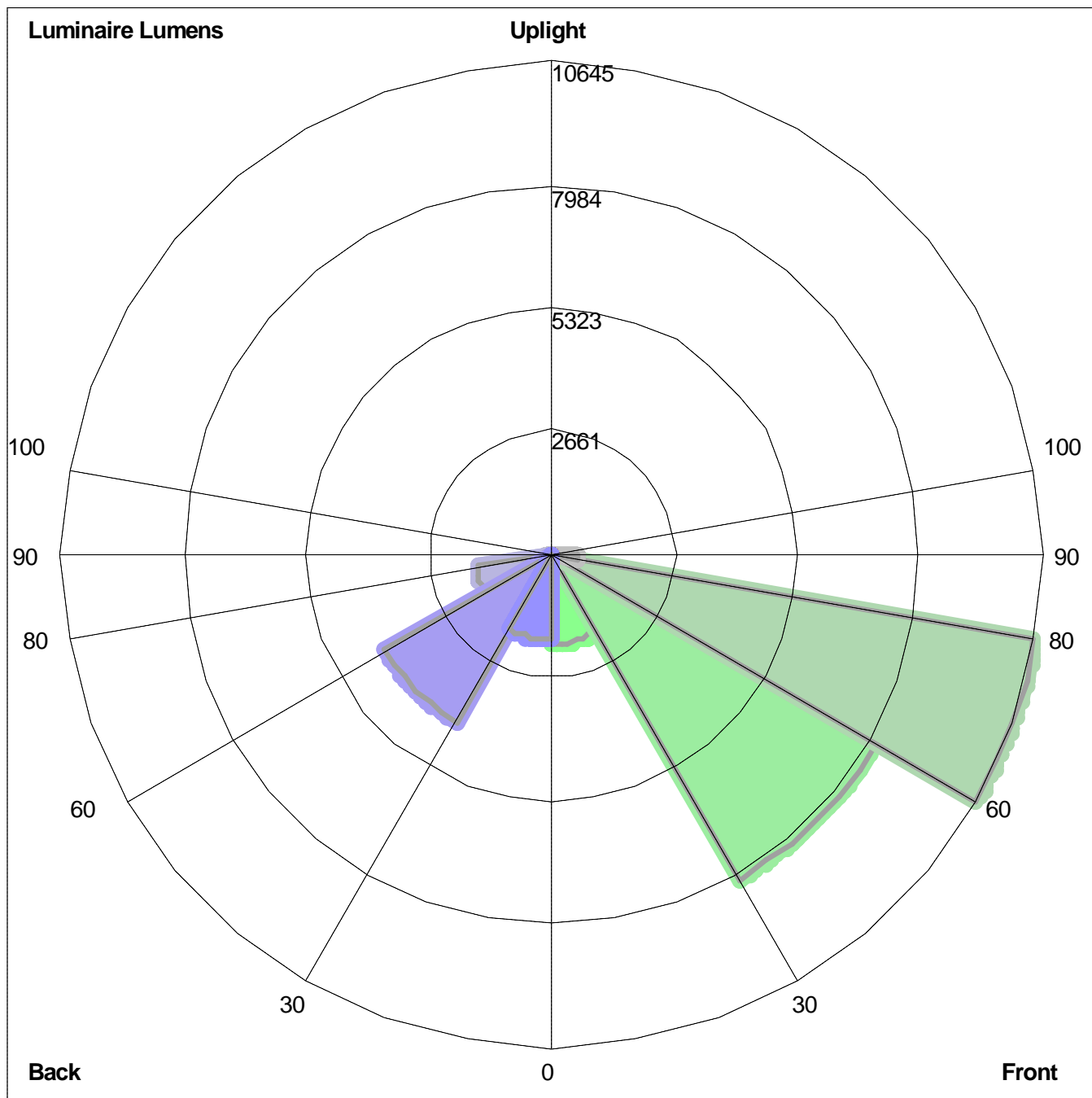


Maximum Candela = 19266 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1943.7, Medium=8108.2, High=10645.4, Very High=506.8
Back: Low=1864.1, Medium=4163.8, High=1680.1, Very High=124.9
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4