



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-FT-LED-29-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7787
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/21/16
[TESTDATE]05/05/16
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XMR-FT-LED-29-50-IL
[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	22020
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18741
Maximum Candela Angle	47.5H 70V
Maximum Candela (<90 Degrees Vertical)	18741
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3009 (13.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1861.2	N.A.	8.5
FM - Front-Medium (30-60)	8092.0	N.A.	36.7
FH - Front-High (60-80)	9132.7	N.A.	41.5
FVH - Front-Very High (80-90)	239.7	N.A.	1.1
BL - Back-Low (0-30)	892.7	N.A.	4.1
BM - Back-Medium (30-60)	1399.7	N.A.	6.4
BH - Back-High (60-80)	395.8	N.A.	1.8
BVH - Back-Very High (80-90)	6.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	22020.3	N.A.	100.0
BUG Rating	B2-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>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	3799	3799	3799	3799	3799	3799	3799	3799	3799	3799
2.5	3970	3966	3953	3954	3954	3947	3913	3924	3908	3876
5.0	3950	3944	3946	3968	3983	4008	3990	4023	4028	3993
7.5	3905	3898	3904	3934	3967	4020	4005	4065	4110	4116
10.0	3903	3899	3909	3948	3985	4053	4047	4118	4193	4241
12.5	3940	3936	3946	3989	4035	4111	4110	4190	4287	4374
15.0	3986	3987	4004	4051	4106	4196	4198	4283	4392	4507
17.5	4038	4042	4065	4119	4183	4287	4298	4388	4502	4636
20.0	4112	4123	4146	4201	4267	4380	4396	4488	4603	4751
22.5	4222	4223	4244	4298	4365	4468	4489	4575	4691	4839
25.0	4350	4350	4365	4411	4467	4554	4572	4649	4763	4905
27.5	4508	4507	4516	4545	4576	4637	4651	4712	4818	4952
30.0	4688	4687	4689	4698	4695	4727	4735	4768	4857	4979
32.5	4877	4877	4876	4871	4840	4837	4831	4833	4888	4987
35.0	5083	5095	5073	5054	5014	4972	4958	4916	4921	4986
37.5	5328	5340	5309	5271	5214	5153	5132	5045	4977	4992
40.0	5632	5644	5615	5563	5476	5390	5364	5240	5077	5024
42.5	6010	6026	5990	5925	5829	5717	5706	5541	5245	5100
45.0	6528	6552	6504	6456	6314	6161	6176	5959	5525	5265
47.5	7296	7285	7255	7191	7034	6782	6798	6575	5946	5532
50.0	8129	8122	8116	8118	7946	7651	7614	7370	6539	5913
52.5	9008	9019	9096	9225	9052	8715	8679	8398	7320	6477
55.0	9783	9835	10050	10428	10361	10027	10010	9681	8355	7160
57.5	10400	10528	10870	11569	11801	11668	11583	11254	9564	8038
60.0	10788	10947	11458	12560	13300	13338	13297	12980	10938	8966
62.5	10970	11118	11914	13359	14497	15181	15422	14961	12421	9762
65.0	10504	10642	11748	13832	15754	16918	17298	16922	13499	10131
67.5	9006	9037	10548	13522	16716	18217	18471	17781	13694	9555
70.0	6354	6624	8165	12019	16302	18713	18741	17322	12440	7593
72.5	2661	2875	4117	7865	13916	17121	17309	14555	9022	4368
75.0	1229	1298	1866	3331	8288	12993	13017	10668	4615	1928
77.5	813	850	1352	2093	3445	6583	7250	5508	2034	1082
80.0	556	589	1027	1608	2034	3009	2980	2248	1099	699
82.5	418	449	846	1234	1141	872	725	558	542	427
85.0	261	263	421	439	387	293	221	155	189	214
87.5	71	80	126	170	95	71	68	70	79	96
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	3799	3799	3799	3799	3799	3799	3799	3799	3799	3799
2.5	3849	3847	3822	3766	3752	3723	3685	3647	3619	3599
5.0	3930	3902	3847	3717	3615	3490	3343	3209	3098	3018
7.5	4046	3992	3902	3673	3426	3144	2843	2592	2403	2280
10.0	4192	4113	3982	3622	3197	2729	2323	2041	1859	1759
12.5	4357	4256	4077	3556	2913	2313	1928	1713	1584	1504
15.0	4529	4410	4175	3472	2632	2014	1716	1533	1431	1369
17.5	4691	4559	4262	3362	2378	1847	1586	1432	1340	1286
20.0	4835	4691	4334	3228	2192	1753	1506	1370	1280	1220
22.5	4957	4798	4382	3086	2085	1687	1458	1322	1219	1156
25.0	5041	4881	4398	2961	2022	1638	1416	1266	1153	1061
27.5	5096	4929	4385	2864	1986	1605	1370	1192	1013	880

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CANDELA TABULATION - (Cont.)

30.0	5122	4939	4339	2801	1945	1567	1312	1052	815	675
32.5	5118	4918	4270	2761	1906	1521	1209	862	643	561
35.0	5093	4874	4184	2731	1860	1465	1035	704	565	494
37.5	5065	4824	4111	2708	1810	1368	864	625	496	418
40.0	5048	4778	4060	2688	1746	1194	748	550	428	372
42.5	5065	4764	4054	2672	1645	987	646	468	377	380
45.0	5136	4805	4099	2663	1432	763	509	389	352	369
47.5	5288	4914	4221	2636	1105	556	386	315	319	303
50.0	5511	5087	4401	2545	759	407	306	266	270	219
52.5	5894	5398	4640	2397	527	343	262	229	226	195
55.0	6335	5770	4909	2155	438	311	233	199	199	225
57.5	6858	6155	5172	1830	406	281	204	183	213	191
60.0	7412	6548	5312	1486	379	236	171	188	142	127
62.5	7765	6722	5089	1138	332	189	178	128	100	93
65.0	7584	6327	4184	845	237	172	147	95	82	98
67.5	6731	5254	2642	631	170	160	106	85	85	73
70.0	4624	3416	1249	356	128	115	87	82	62	52
72.5	2153	1476	559	184	105	78	78	63	49	36
75.0	936	631	274	113	77	61	55	46	17	14
77.5	573	388	177	77	48	43	35	20	9	9
80.0	380	249	118	52	29	27	14	7	6	6
82.5	225	146	73	26	15	11	8	7	6	2
85.0	122	72	32	10	7	7	6	3	1	0
87.5	53	22	10	5	6	6	5	3	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

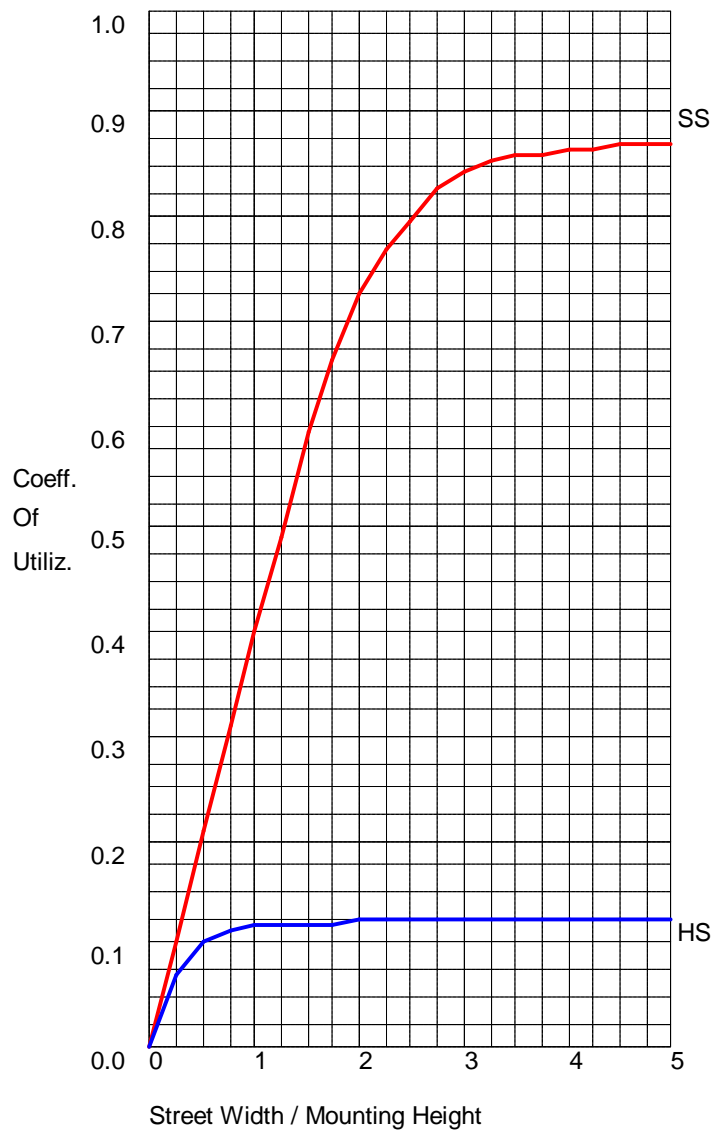
	<u>175.0</u>	<u>180.0</u>
0.0	3799	3799
2.5	3583	3582
5.0	2974	2987
7.5	2221	2228
10.0	1716	1715
12.5	1470	1448
15.0	1341	1326
17.5	1258	1248
20.0	1191	1182
22.5	1127	1119
25.0	1010	999
27.5	811	798
30.0	619	610
32.5	535	532
35.0	462	455
37.5	387	384
40.0	358	355
42.5	416	390
45.0	302	271
47.5	229	226
50.0	206	205
52.5	204	204
55.0	242	241
57.5	167	157
60.0	108	104
62.5	80	78
65.0	89	87

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CANDELA TABULATION - (Cont.)

67.5	62	60
70.0	44	42
72.5	26	24
75.0	15	13
77.5	4	0
80.0	1	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

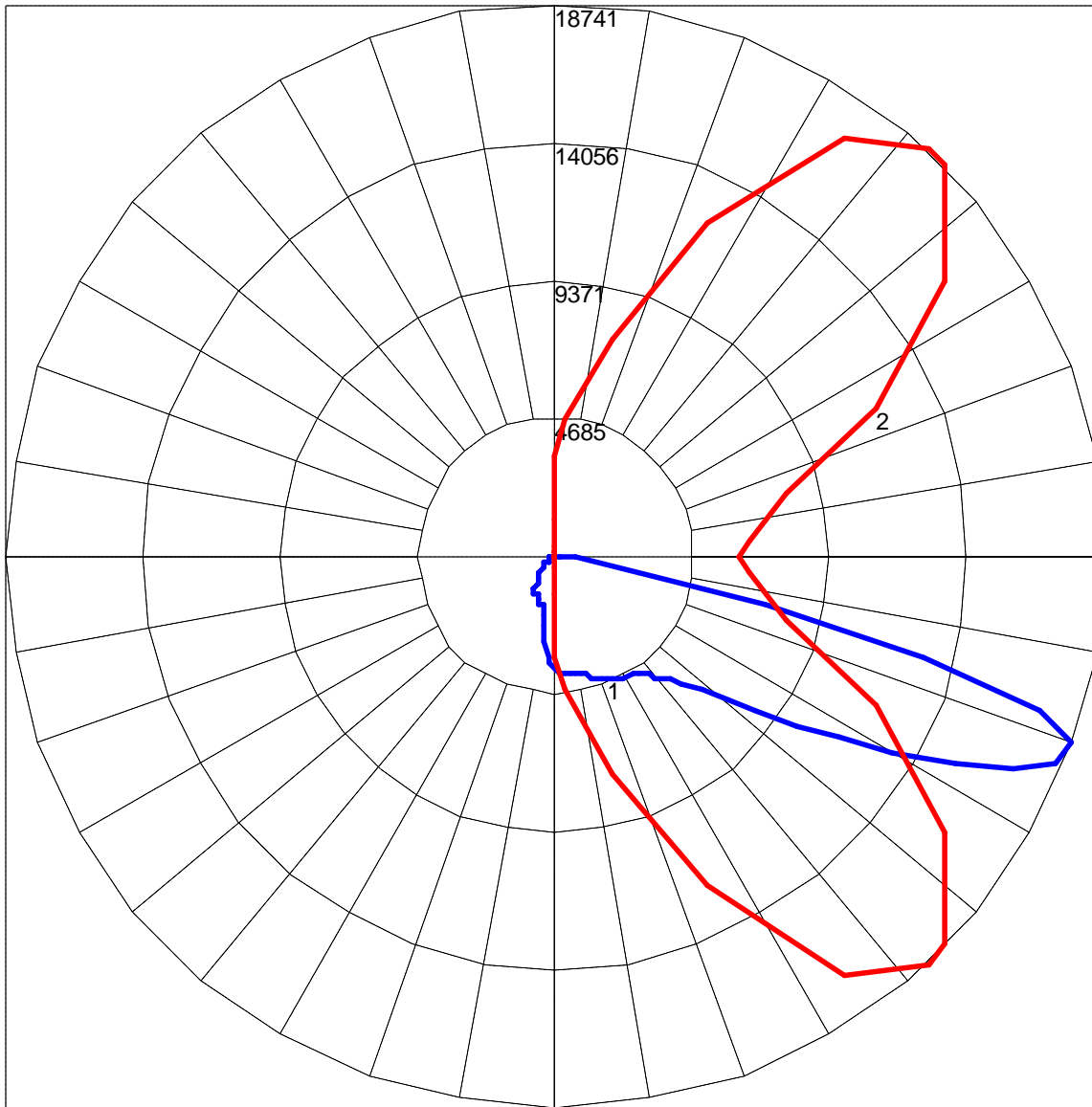
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

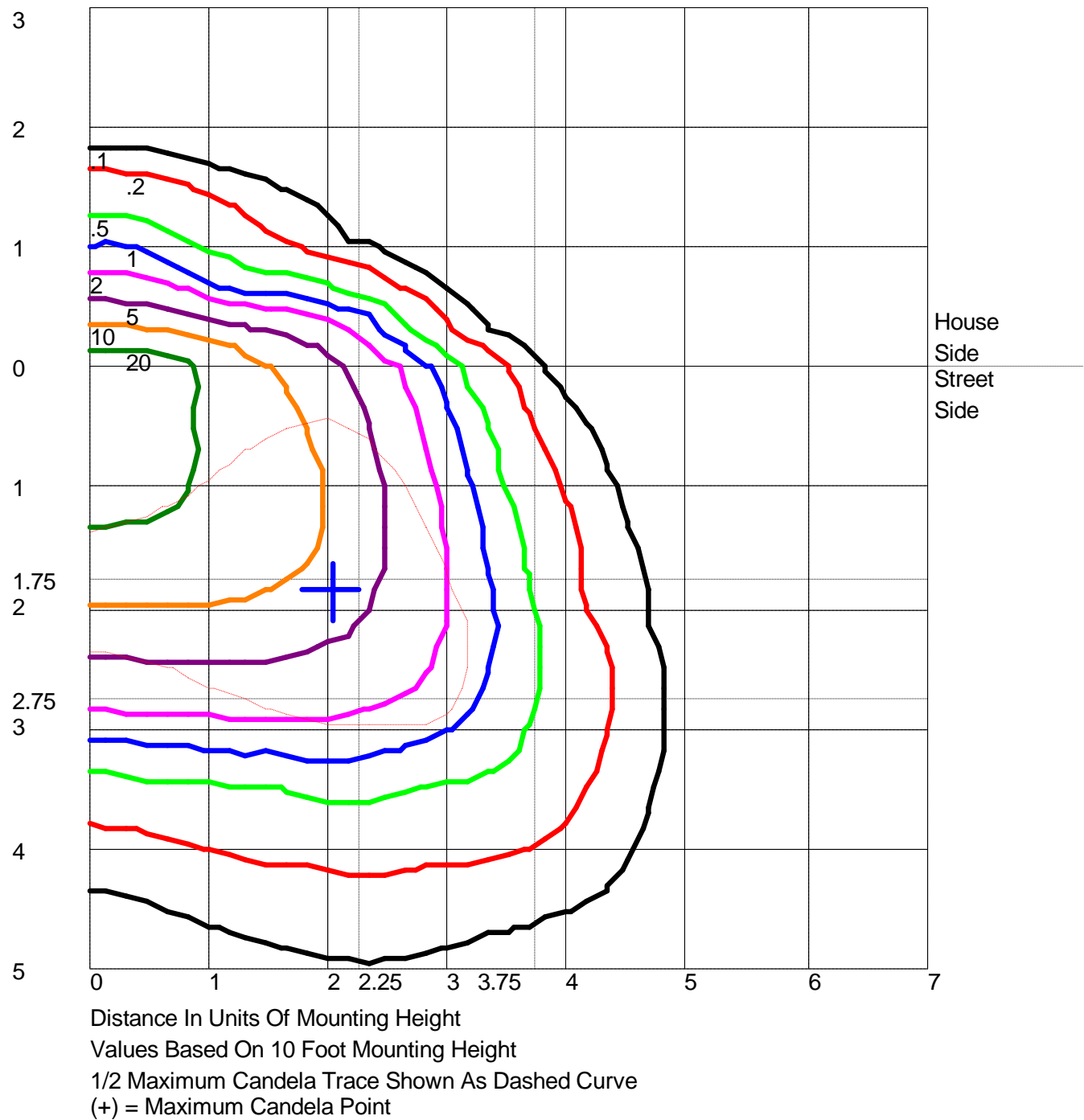
	Lumens	Percent Of Luminaire
Downward Street Side	19325.7	87.8
Downward House Side	2694.6	12.2
Downward Total	22020.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22020.3	100.0

POLAR GRAPH

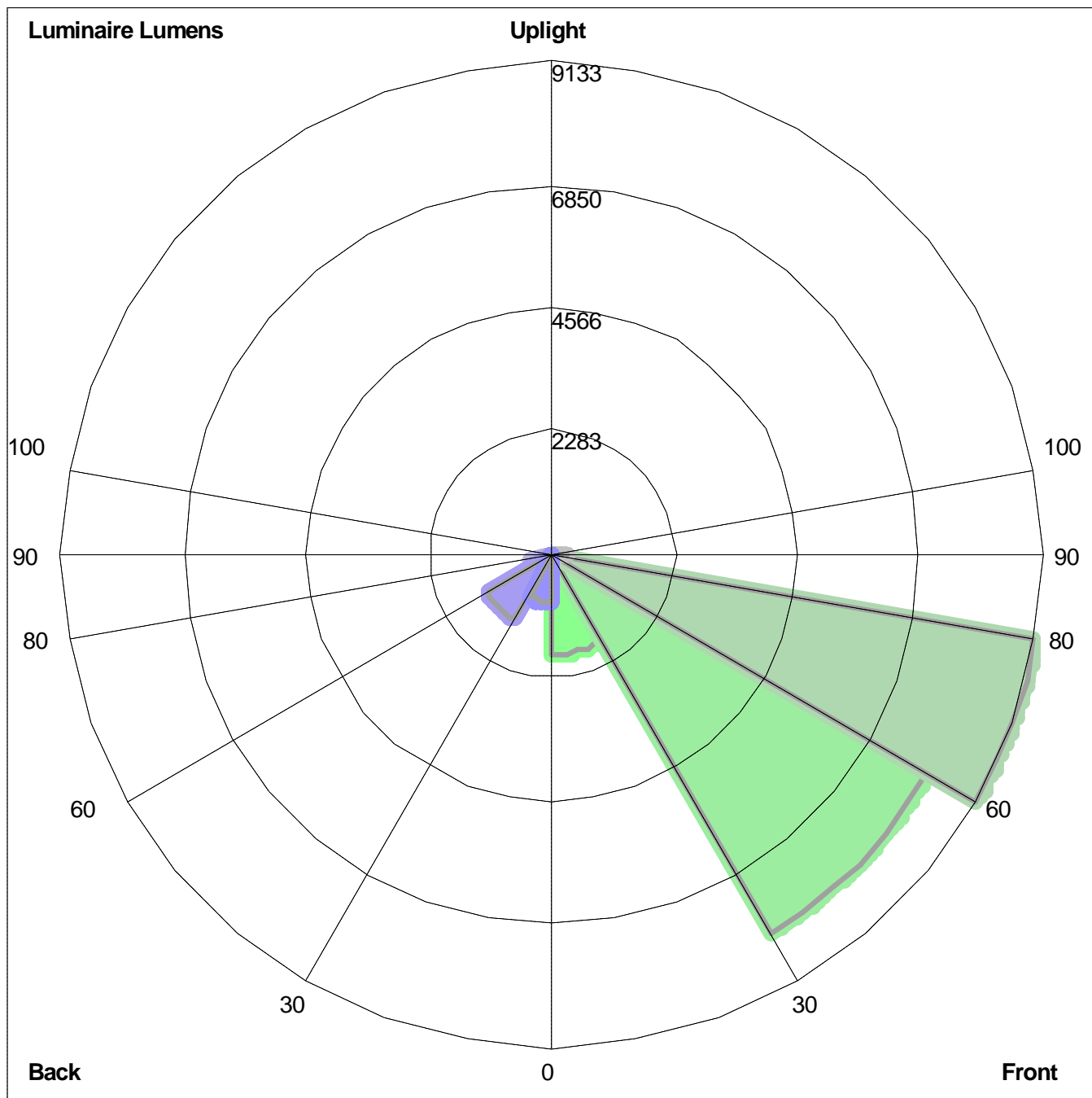


Maximum Candela = 18741 Located At Horizontal Angle = 47.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1861.2, Medium= 8092.0, High=9132.7, Very High=239.7
Back: Low=892.7, Medium=1399.7, High=395.8, Very High=6.5
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4