



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-2-LED-35-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8225
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/2016
[TEST DATE]10/17/16
[MANUFACT]LSI INDUSTRIES, INC
[LUMCAT]XMR-2-LED-35-50
[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 II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	34850
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26794
Maximum Candela Angle	82.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	26794
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1747 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2448.6	N.A.	7.0
FM - Front-Medium (30-60)	12132.8	N.A.	34.8
FH - Front-High (60-80)	7802.4	N.A.	22.4
FVH - Front-Very High (80-90)	158.9	N.A.	0.5
BL - Back-Low (0-30)	1997.4	N.A.	5.7
BM - Back-Medium (30-60)	7250.5	N.A.	20.8
BH - Back-High (60-80)	2924.1	N.A.	8.4
BVH - Back-Very High (80-90)	135.4	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	34850.1	N.A.	100.0
BUG Rating	B4-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>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	4902	4902	4902	4902	4902	4902	4902	4902	4902	4902
2.5	4971	4970	4956	4968	4961	4948	4935	4942	4924	4907
5.0	5033	5031	5021	5031	5025	5009	4997	5000	4976	4953
7.5	5098	5097	5090	5105	5098	5081	5078	5077	5054	5023
10.0	5188	5186	5186	5200	5197	5184	5185	5185	5163	5127
12.5	5272	5275	5281	5309	5322	5321	5333	5348	5307	5265
15.0	5323	5327	5342	5405	5454	5487	5520	5550	5502	5460
17.5	5343	5352	5382	5477	5569	5661	5745	5793	5739	5693
20.0	5373	5381	5430	5548	5681	5825	5982	6070	6014	5952
22.5	5414	5425	5487	5633	5794	5974	6220	6381	6335	6262
25.0	5473	5484	5556	5720	5906	6118	6427	6713	6703	6628
27.5	5568	5580	5657	5836	6040	6271	6625	7065	7160	7064
30.0	5730	5736	5814	5994	6210	6467	6834	7417	7643	7560
32.5	6004	6018	6061	6219	6444	6710	7070	7765	8154	8101
35.0	6405	6415	6423	6558	6734	7002	7373	8106	8677	8680
37.5	6964	6970	6970	7013	7123	7376	7737	8438	9237	9300
40.0	7779	7778	7766	7661	7661	7877	8181	8787	9776	9962
42.5	8864	8914	8814	8663	8440	8549	8736	9201	10296	10647
45.0	10042	10090	9992	9852	9567	9507	9447	9618	10804	11402
47.5	10971	11005	10945	10928	10929	10864	10453	10150	11345	12244
50.0	11523	11514	11514	11668	12014	12553	11987	10895	11975	13144
52.5	11360	11399	11506	11888	12706	13884	13945	11952	12716	14147
55.0	10592	10662	10872	11440	12731	14899	16389	13469	13524	15659
57.5	9299	9327	9651	10198	11855	14813	18560	15955	14810	17457
60.0	7466	7473	7560	8121	9944	13442	19930	19017	16244	19542
62.5	5141	5120	4895	5392	7017	10701	20263	22204	18499	22006
65.0	3175	3091	2952	2990	4058	6620	18707	24072	20953	24985
67.5	1967	1932	1899	1847	2254	3331	13973	23951	23489	26794
70.0	1248	1239	1263	1269	1496	1913	7270	20500	23912	25218
72.5	775	810	834	924	1082	1302	3271	13400	19028	16159
75.0	555	579	570	663	788	986	1778	6577	10183	5756
77.5	423	442	436	492	567	732	1145	3165	4041	1748
80.0	357	374	345	371	417	541	700	1615	1747	935
82.5	319	311	259	268	292	398	442	799	854	487
85.0	224	217	176	174	184	257	266	320	432	242
87.5	106	107	93	90	87	113	112	107	110	91
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	4902	4902	4902	4902	4902	4902	4902	4902	4902	4902
2.5	4903	4888	4904	4888	4896	4897	4890	4884	4872	4860
5.0	4947	4923	4935	4903	4883	4856	4820	4789	4754	4713
7.5	5015	4982	4988	4933	4873	4798	4707	4615	4535	4469
10.0	5119	5085	5073	4984	4867	4716	4549	4386	4277	4191
12.5	5255	5212	5187	5056	4858	4611	4363	4167	4054	3995
15.0	5437	5383	5353	5151	4850	4492	4189	4017	3960	3946
17.5	5653	5585	5537	5262	4838	4370	4062	3974	3997	4038
20.0	5904	5830	5749	5381	4808	4250	4011	4032	4126	4206
22.5	6204	6118	6009	5531	4768	4159	4048	4158	4310	4427
25.0	6573	6461	6321	5701	4721	4138	4156	4341	4552	4718
27.5	6999	6875	6695	5902	4693	4209	4326	4589	4884	5123

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CANDELA TABULATION - (Cont.)

30.0	7519	7361	7139	6113	4703	4351	4578	4931	5332	5636
32.5	8063	7891	7624	6339	4773	4577	4906	5366	5837	6195
35.0	8651	8463	8132	6539	4927	4889	5306	5814	6311	6677
37.5	9280	9073	8690	6730	5174	5254	5692	6226	6750	7097
40.0	9950	9763	9261	6920	5487	5613	6010	6553	7075	7411
42.5	10648	10458	9861	7108	5817	5908	6244	6745	7206	7429
45.0	11393	11188	10500	7278	6088	6104	6356	6685	6887	6905
47.5	12224	12042	11147	7416	6260	6165	6225	6217	6171	6091
50.0	13155	12944	11831	7514	6306	6025	5778	5514	5316	5175
52.5	14232	13898	12539	7571	6241	5617	5179	4760	4466	4322
55.0	15744	15121	13260	7631	6095	5132	4492	4046	3769	3621
57.5	17573	16732	13971	7715	5912	4633	3913	3528	3225	3165
60.0	19630	18375	14661	7840	5762	4185	3486	3223	2849	2784
62.5	22012	19964	15434	7883	5619	3826	3173	2997	2417	2305
65.0	24445	21227	15312	7602	5301	3448	2852	2607	1931	1754
67.5	25633	20672	13219	6513	4533	2814	2309	2059	1402	1223
70.0	23080	16289	8593	4318	3266	2044	1703	1468	1017	919
72.5	13870	8790	4167	2407	1978	1337	1218	1036	735	645
75.0	4435	3073	1984	1290	1171	965	860	709	524	469
77.5	1458	1137	1019	830	793	752	589	497	410	362
80.0	764	622	569	619	619	516	405	358	453	370
82.5	402	326	305	456	434	312	282	282	642	615
85.0	228	175	163	293	184	187	193	324	676	423
87.5	93	64	57	62	62	59	45	36	138	20
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

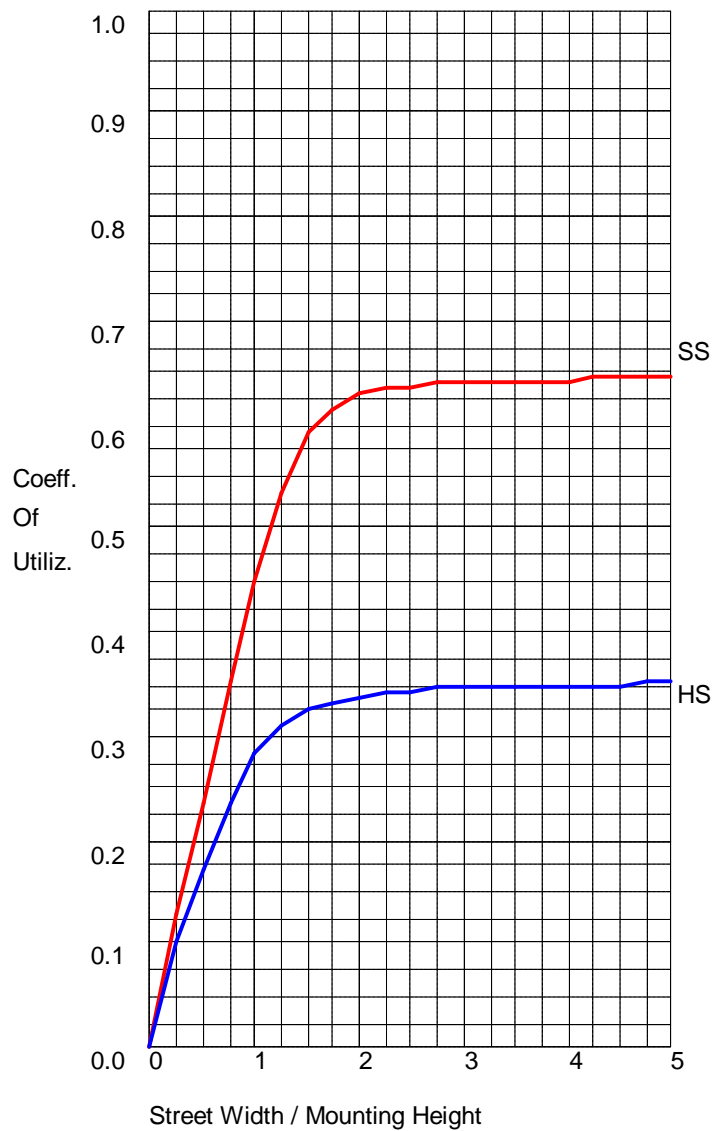
	<u>175.0</u>	<u>180.0</u>
0.0	4902	4902
2.5	4854	4846
5.0	4703	4694
7.5	4442	4432
10.0	4154	4143
12.5	3970	3959
15.0	3946	3936
17.5	4057	4049
20.0	4254	4237
22.5	4495	4478
25.0	4815	4793
27.5	5258	5278
30.0	5794	5814
32.5	6354	6339
35.0	6823	6802
37.5	7220	7195
40.0	7494	7468
42.5	7417	7378
45.0	6845	6798
47.5	5992	5988
50.0	5073	5077
52.5	4213	4130
55.0	3492	3458
57.5	3095	3064
60.0	2679	2645
62.5	2180	2141
65.0	1593	1547

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CANDELA TABULATION - (Cont.)

67.5	1154	1130
70.0	872	828
72.5	649	646
75.0	471	504
77.5	347	354
80.0	325	328
82.5	398	392
85.0	182	173
87.5	1	0
90.0	0	0

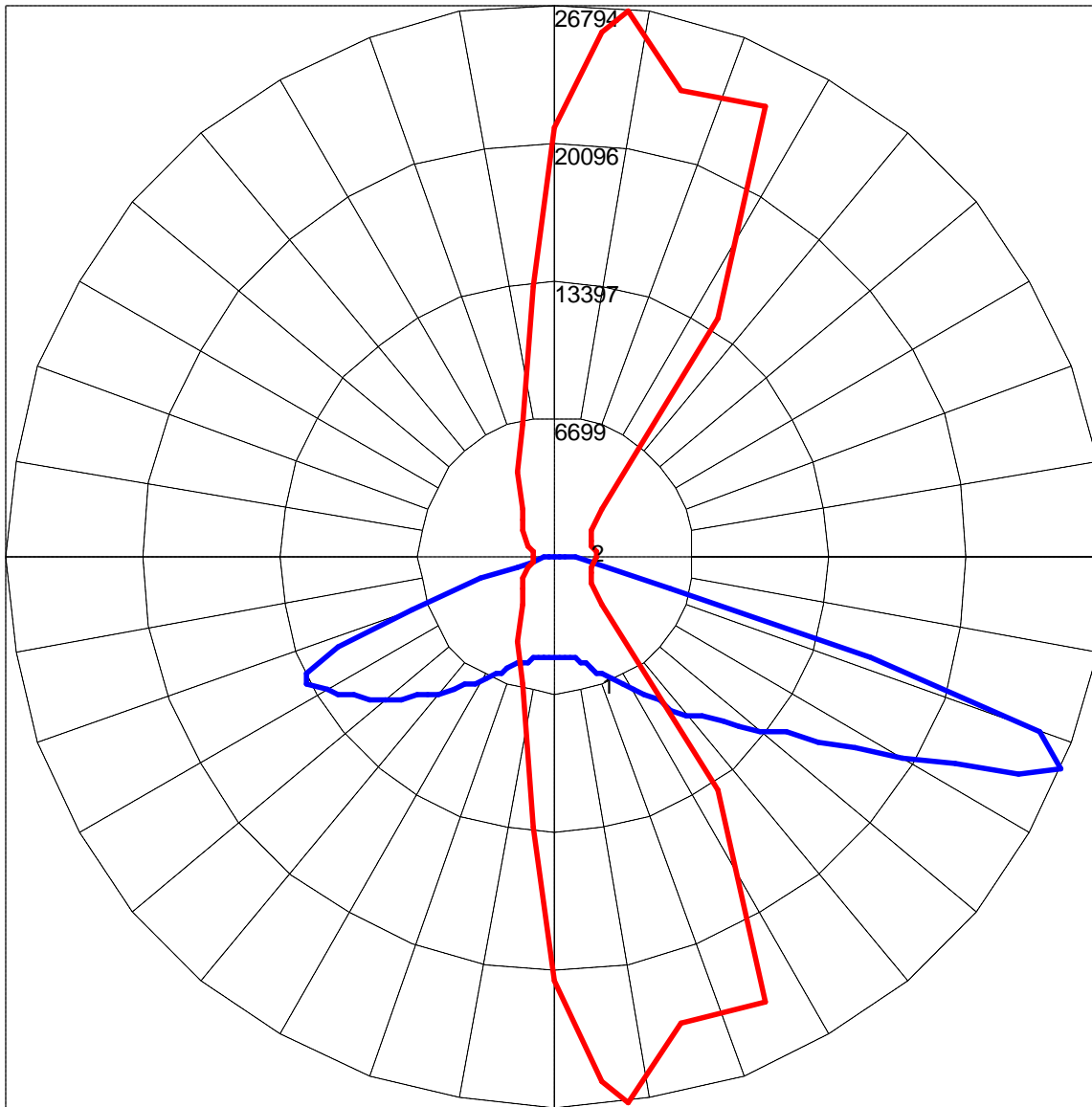
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

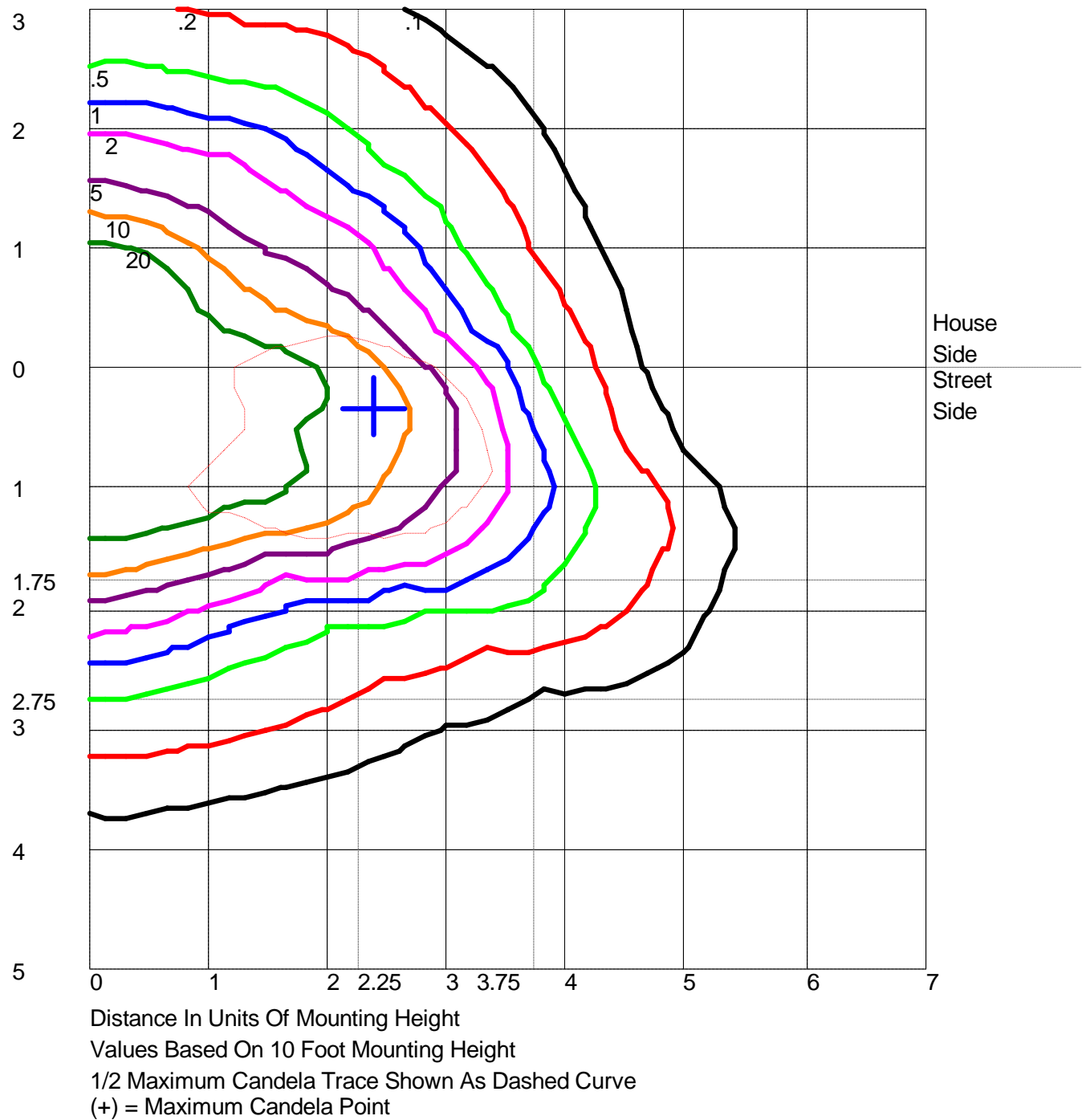
	Lumens	Percent Of Luminaire
Downward Street Side	22542.6	64.7
Downward House Side	12307.4	35.3
Downward Total	34850.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	34850.0	100.0

POLAR GRAPH

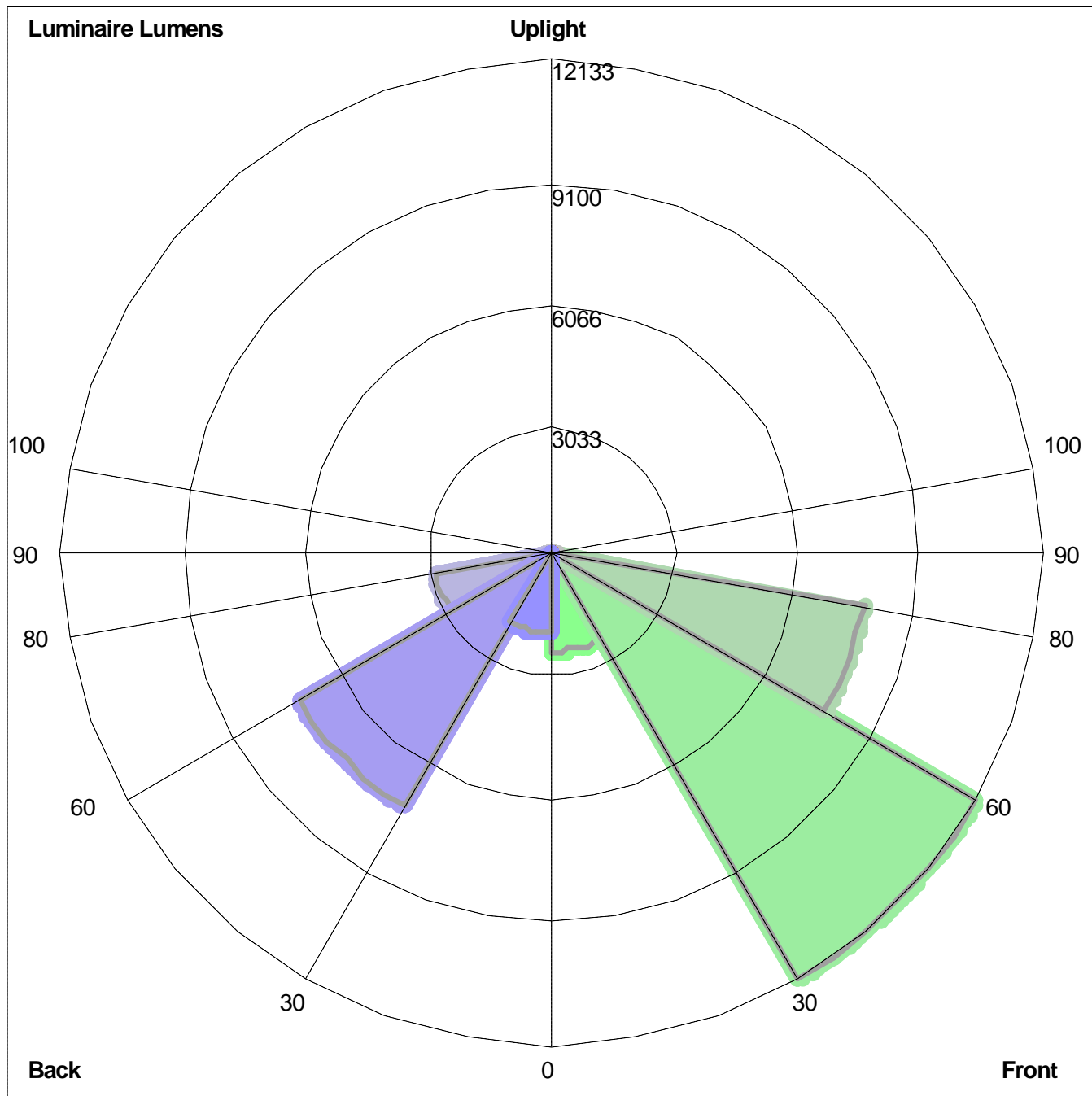


Maximum Candela = 26794 Located At Horizontal Angle = 82.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2448.6, Medium=12132.8, High=7802.4, Very High=158.9
Back: Low=1997.4, Medium=7250.5, High=2924.1, Very High=135.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4