



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-5W-LED-35-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7767
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/21/16
[TESTDATE]05/02/16
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XMR-5W-LED-35-50-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_SEARCH_SOURCE]LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20821
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16524
Maximum Candela Angle	47.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	16524
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1338 (6.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1327.7	N.A.	6.4
FM - Front-Medium (30-60)	7268.2	N.A.	34.9
FH - Front-High (60-80)	7996.6	N.A.	38.4
FVH - Front-Very High (80-90)	98.5	N.A.	0.5
BL - Back-Low (0-30)	1003.7	N.A.	4.8
BM - Back-Medium (30-60)	2107.0	N.A.	10.1
BH - Back-High (60-80)	1011.8	N.A.	4.9
BVH - Back-Very High (80-90)	8.0	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	20821.5	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>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270
2.5	2298	2304	2301	2301	2294	2294	2293	2288	2285	2277
5.0	2350	2358	2353	2351	2339	2335	2332	2322	2315	2300
7.5	2423	2432	2426	2423	2406	2397	2392	2379	2366	2345
10.0	2512	2524	2518	2516	2498	2488	2490	2465	2444	2415
12.5	2619	2635	2630	2632	2630	2609	2614	2581	2550	2510
15.0	2752	2771	2771	2778	2786	2764	2767	2726	2680	2622
17.5	2906	2928	2935	2955	2974	2962	2951	2898	2832	2756
20.0	3071	3097	3115	3163	3195	3183	3170	3101	3010	2911
22.5	3251	3281	3320	3384	3440	3438	3419	3335	3219	3091
25.0	3452	3498	3538	3628	3706	3715	3697	3613	3457	3281
27.5	3671	3733	3802	3900	3996	4014	3994	3899	3704	3485
30.0	3883	3954	4051	4189	4311	4336	4312	4203	3971	3716
32.5	4112	4193	4308	4481	4640	4682	4654	4531	4286	3974
35.0	4354	4443	4585	4806	4982	5039	5010	4882	4595	4230
37.5	4624	4697	4874	5129	5345	5413	5380	5240	4910	4515
40.0	4864	4945	5153	5464	5722	5812	5777	5627	5255	4828
42.5	5169	5252	5463	5799	6113	6250	6237	6037	5614	5156
45.0	5499	5582	5802	6168	6538	6666	6650	6448	5976	5485
47.5	5837	5918	6147	6571	6977	7114	7068	6861	6369	5883
50.0	6247	6323	6538	6963	7406	7565	7521	7305	6790	6276
52.5	6635	6731	6955	7388	7850	8033	7983	7765	7221	6682
55.0	7059	7158	7382	7807	8317	8514	8460	8230	7721	7207
57.5	7612	7737	7936	8322	8831	9092	9034	8821	8273	7709
60.0	8286	8346	8512	8903	9463	9768	9705	9417	8863	8410
62.5	8969	9032	9195	9582	10222	10608	10642	10202	9535	9015
65.0	9570	9637	9857	10317	11199	11716	11705	11104	10408	10028
67.5	9691	9777	10174	11022	12639	13310	13375	12712	11719	11050
70.0	8171	8422	9462	10836	13758	16219	16121	14451	12407	10529
72.5	2678	2756	4347	8054	12388	16313	16524	13671	9602	6752
75.0	606	593	837	2105	6865	12495	12381	9414	5041	2799
77.5	285	277	328	563	1576	4764	5792	3978	1784	1000
80.0	141	147	161	210	456	1140	1338	1190	845	536
82.5	73	75	84	109	173	289	310	469	463	335
85.0	34	36	41	56	85	132	138	158	217	238
87.5	20	21	25	30	39	50	55	81	122	184
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	2270	2270	2270	2270	2270	2270	2270	2270	2270	2270
2.5	2268	2269	2275	2259	2267	2268	2268	2263	2259	2257
5.0	2286	2283	2288	2271	2275	2274	2273	2265	2261	2258
7.5	2324	2318	2321	2306	2308	2305	2303	2297	2286	2283
10.0	2385	2384	2380	2366	2368	2366	2362	2352	2333	2325
12.5	2479	2467	2462	2451	2458	2459	2453	2434	2409	2384
15.0	2579	2563	2568	2556	2574	2581	2570	2545	2508	2469
17.5	2695	2676	2682	2677	2712	2728	2723	2680	2572	2420
20.0	2834	2813	2820	2838	2876	2904	2895	2669	2239	1920
22.5	2991	2966	2974	3009	3064	3113	2924	2284	1739	1423
25.0	3155	3124	3135	3188	3267	3294	2616	1794	1268	1071
27.5	3331	3295	3311	3381	3503	3259	2145	1320	1084	1046

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CANDELA TABULATION - (Cont.)

30.0	3540	3498	3514	3594	3730	2973	1640	1138	1086	1047
32.5	3767	3720	3734	3825	3868	2488	1268	1141	1096	1050
35.0	3991	3939	3952	4065	3811	1962	1199	1156	1105	1042
37.5	4235	4179	4190	4312	3585	1512	1215	1172	1082	947
40.0	4545	4466	4484	4580	3177	1319	1238	1157	967	771
42.5	4845	4789	4773	4838	2634	1292	1255	1061	770	576
45.0	5162	5094	5091	4942	2057	1307	1226	871	547	404
47.5	5545	5469	5459	4932	1688	1325	1100	640	374	314
50.0	5917	5842	5823	4757	1436	1316	881	420	294	261
52.5	6340	6270	6238	4469	1347	1225	613	300	245	217
55.0	6855	6778	6738	4037	1360	1033	385	244	203	178
57.5	7327	7251	7206	3463	1362	732	265	201	163	139
60.0	7996	7912	7893	3116	1344	452	216	161	125	122
62.5	8612	8563	8443	2821	1289	265	175	123	133	144
65.0	9684	9585	9106	2533	1175	189	135	131	146	183
67.5	10630	10519	9155	2350	1038	162	130	186	182	263
70.0	9200	8964	7536	1906	896	202	244	258	276	341
72.5	5381	5116	4283	989	531	219	298	289	295	293
75.0	1905	1744	1384	365	162	133	221	275	176	101
77.5	680	611	456	147	70	43	166	115	40	21
80.0	411	360	255	67	29	22	44	20	8	3
82.5	244	184	125	25	11	9	12	4	0	0
85.0	146	97	48	5	1	2	1	0	0	0
87.5	85	33	14	1	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

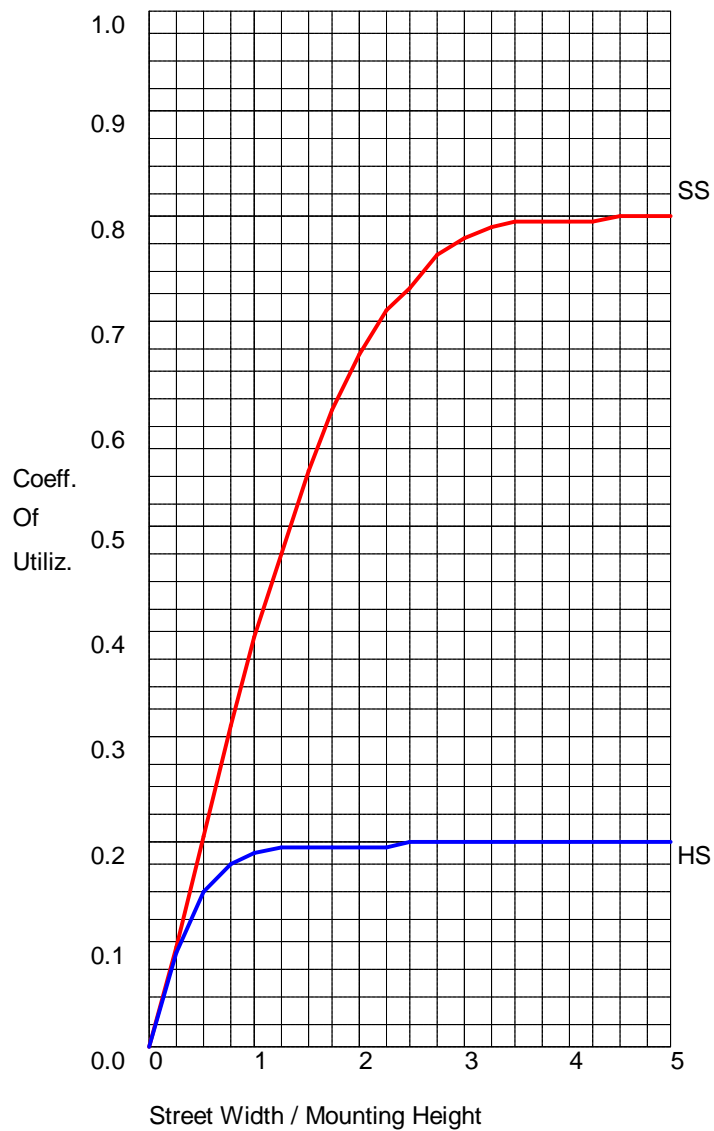
	175.0	180.0
0.0	2270	2270
2.5	2254	2249
5.0	2255	2250
7.5	2281	2275
10.0	2319	2312
12.5	2373	2366
15.0	2447	2439
17.5	2307	2291
20.0	1798	1782
22.5	1285	1293
25.0	1037	1029
27.5	1027	1020
30.0	1027	1019
32.5	1027	1019
35.0	994	983
37.5	863	847
40.0	678	664
42.5	495	484
45.0	361	357
47.5	297	295
50.0	247	247
52.5	205	201
55.0	165	162
57.5	124	122
60.0	129	128
62.5	130	122
65.0	156	137

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CANDELA TABULATION - (Cont.)

67.5	219	198
70.0	266	240
72.5	216	196
75.0	57	47
77.5	1	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

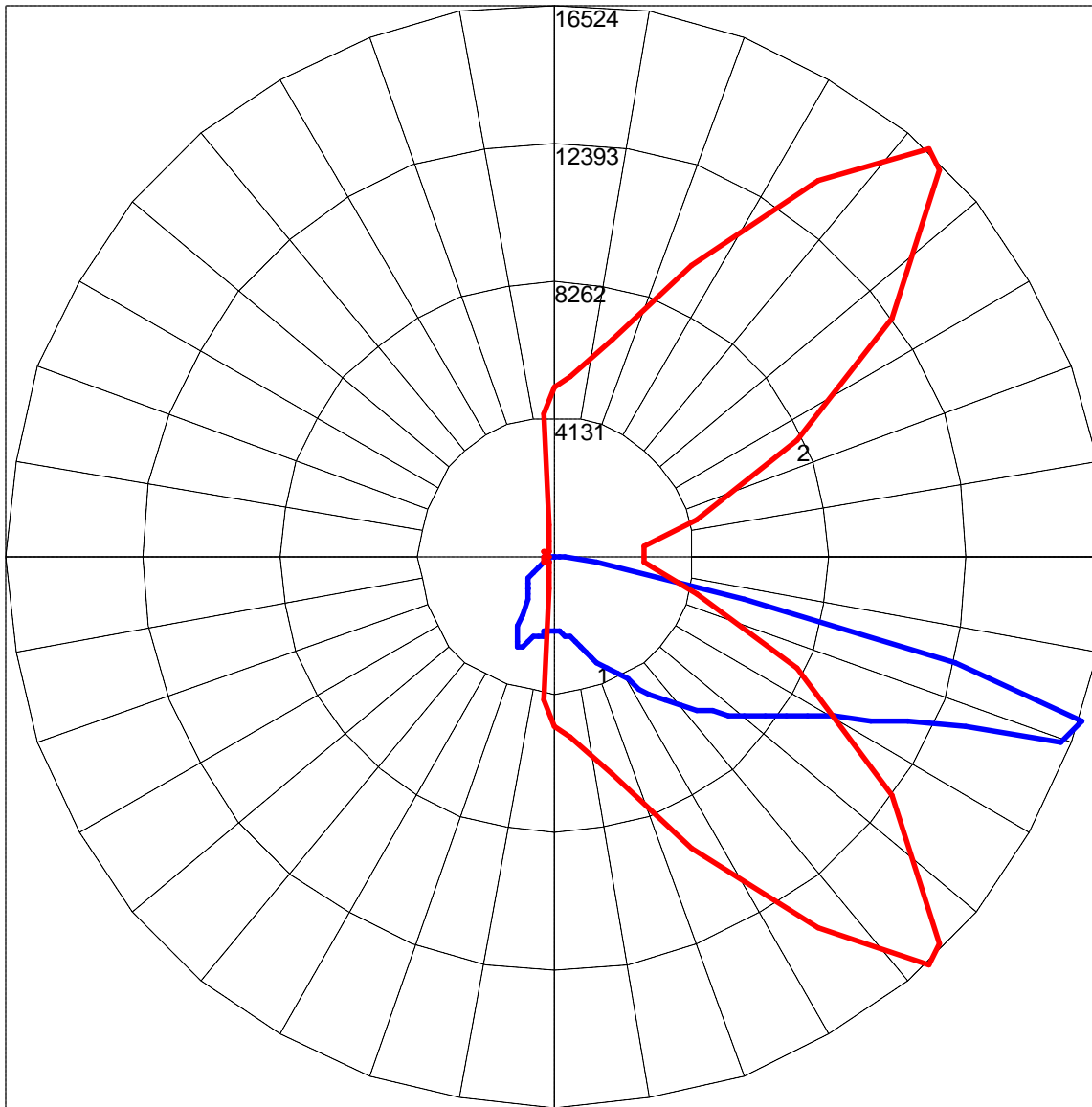
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

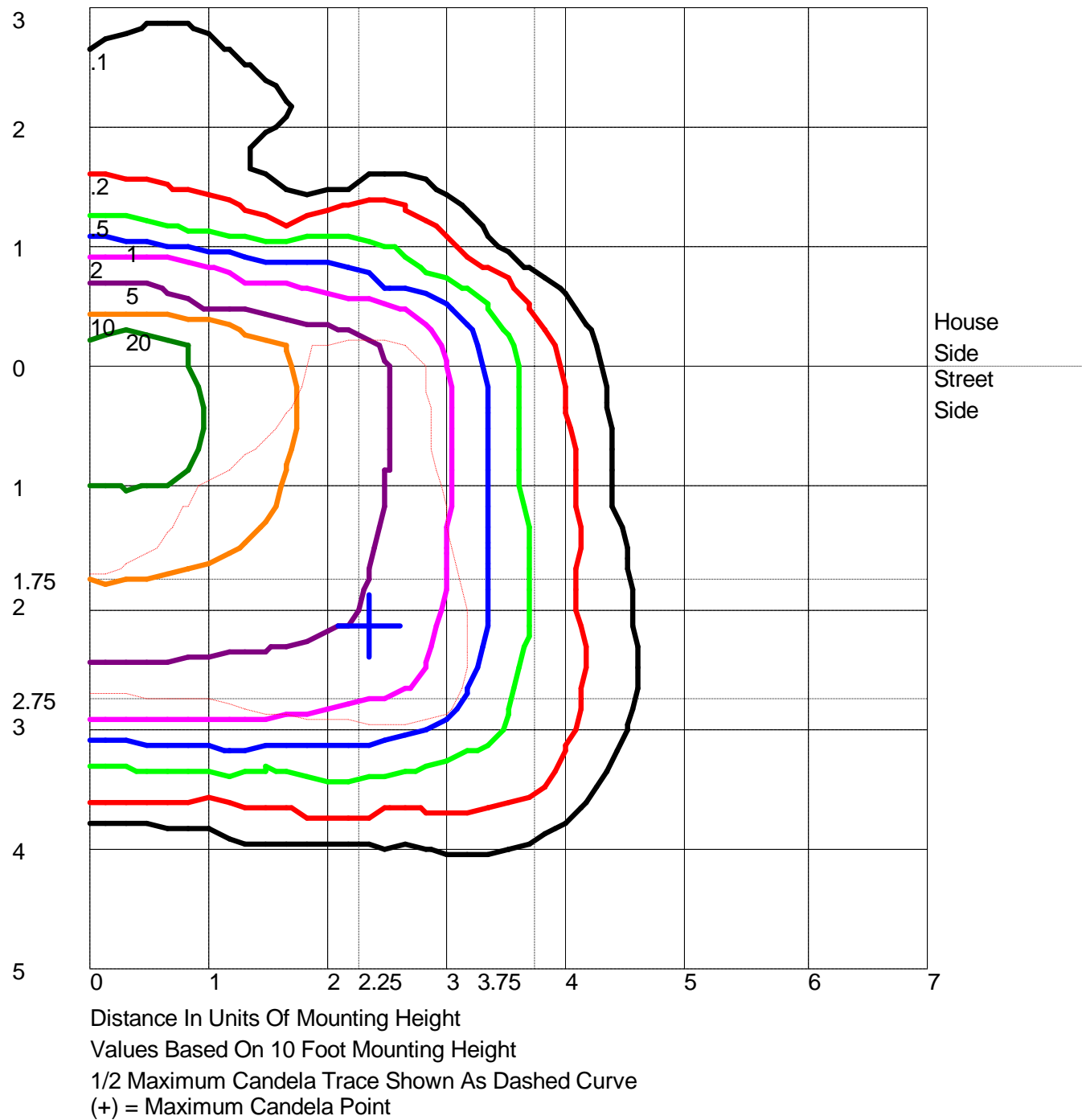
	Lumens	Percent Of Luminaire
Downward Street Side	16691.0	80.2
Downward House Side	4130.5	19.8
Downward Total	20821.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20821.5	100.0

POLAR GRAPH

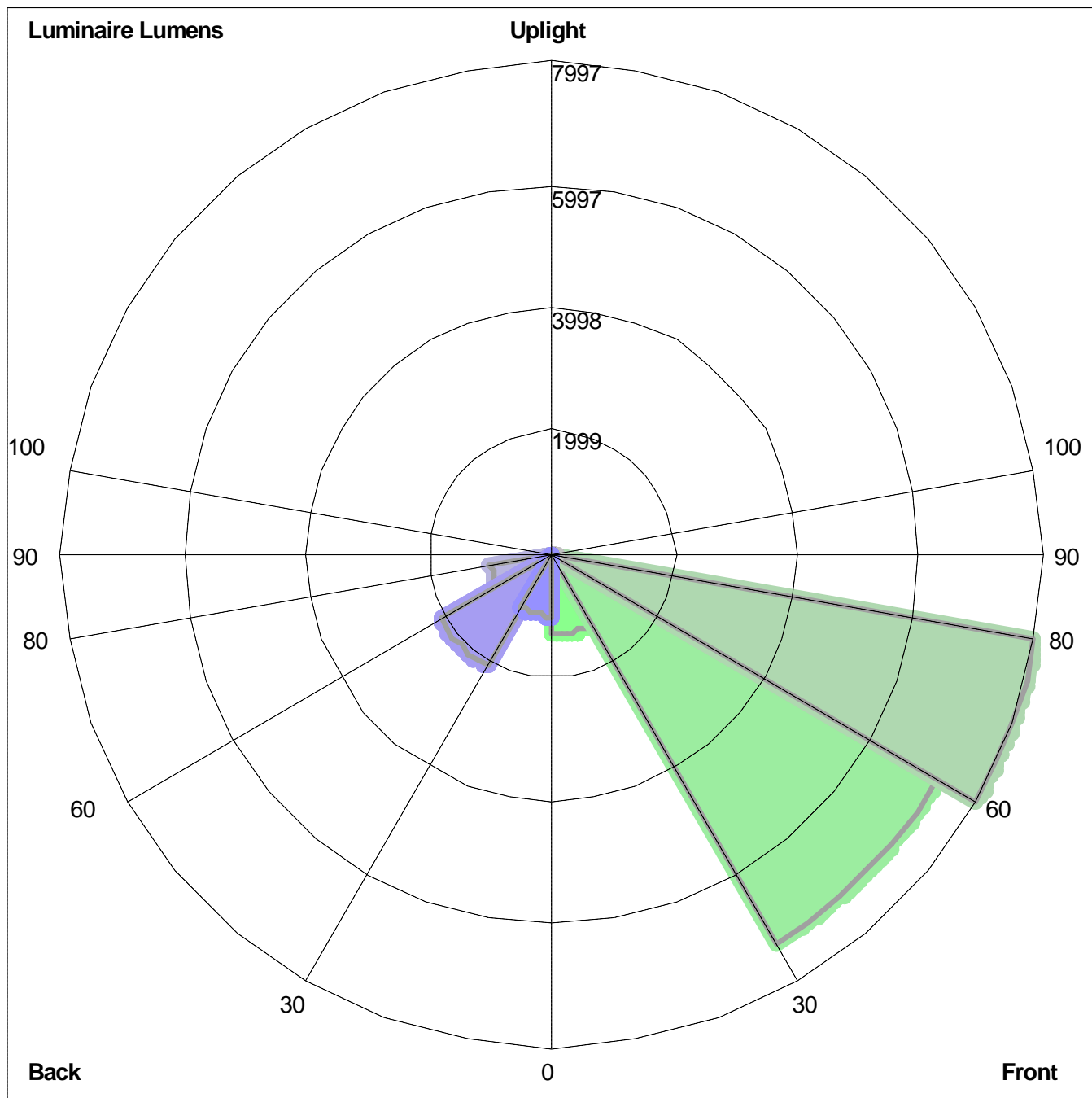


Maximum Candela = 16524 Located At Horizontal Angle = 47.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1327.7, Medium=7268.2, High=7996.6, Very High=98.5
Back: Low=1003.7, Medium= 2107.0, High=1011.8, Very High=8.0
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4