



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XMR-3-LED-29-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7785  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]11/21/16  
[TESTDATE]05/05/16  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XMR-3-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 III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28667
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	25785
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	25785
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2690 (9.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1250.0	N.A.	4.4
FM - Front-Medium (30-60)	10501.3	N.A.	36.6
FH - Front-High (60-80)	9752.5	N.A.	34.0
FVH - Front-Very High (80-90)	320.5	N.A.	1.1
BL - Back-Low (0-30)	1324.8	N.A.	4.6
BM - Back-Medium (30-60)	3882.2	N.A.	13.5
BH - Back-High (60-80)	1528.0	N.A.	5.3
BVH - Back-Very High (80-90)	108.1	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	28667.4	N.A.	100.0
BUG Rating	B3-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>57.5</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	2639	2639	2639	2639	2639	2639	2639	2639	2639	2639
<b>2.5</b>	2611	2616	2611	2623	2624	2628	2635	2637	2641	2640
<b>5.0</b>	2527	2532	2528	2540	2554	2573	2598	2605	2621	2636
<b>7.5</b>	2448	2448	2449	2470	2495	2526	2562	2573	2606	2648
<b>10.0</b>	2376	2376	2379	2406	2442	2494	2547	2560	2596	2643
<b>12.5</b>	2347	2348	2352	2381	2420	2473	2529	2543	2581	2631
<b>15.0</b>	2358	2360	2369	2402	2445	2491	2538	2553	2601	2650
<b>17.5</b>	2397	2396	2412	2457	2517	2563	2597	2607	2643	2679
<b>20.0</b>	2460	2462	2486	2557	2626	2689	2717	2721	2756	2777
<b>22.5</b>	2592	2593	2617	2724	2814	2924	3004	3017	3087	3097
<b>25.0</b>	2823	2828	2864	3026	3168	3319	3478	3555	3564	3436
<b>27.5</b>	3162	3173	3287	3470	3664	3870	4094	4108	4006	3730
<b>30.0</b>	3672	3685	3837	4047	4285	4540	4705	4691	4477	4071
<b>32.5</b>	4401	4394	4560	4759	5034	5366	5430	5361	5037	4486
<b>35.0</b>	5206	5201	5380	5579	5905	6249	6223	6122	5692	4974
<b>37.5</b>	5878	5893	6170	6451	6868	7222	7109	6963	6394	5456
<b>40.0</b>	6440	6498	6859	7375	7907	8269	8065	7858	7089	5874
<b>42.5</b>	7091	7173	7617	8339	9106	9373	9039	8763	7782	6253
<b>45.0</b>	8048	8160	8705	9515	10416	10545	10004	9639	8447	6615
<b>47.5</b>	9088	9156	9779	10736	11821	11755	10924	10477	9056	6996
<b>50.0</b>	10031	10087	10708	11768	12926	12877	11751	11312	9625	7479
<b>52.5</b>	11145	11188	11809	12850	13814	13701	12441	11926	10220	8047
<b>55.0</b>	12681	12663	13138	13964	14888	14062	12840	12357	10844	8776
<b>57.5</b>	14758	14719	15185	15541	16040	14781	13056	12660	11423	9751
<b>60.0</b>	16202	16430	16946	17637	17933	15805	13409	13037	12115	11187
<b>62.5</b>	15018	15212	16375	17910	19813	17533	14790	14261	13183	12719
<b>65.0</b>	8462	8645	11453	15540	19630	20684	17108	16263	15283	14146
<b>67.5</b>	4262	4206	5026	8701	15882	21754	21553	20758	17649	14884
<b>70.0</b>	2351	2455	2900	4057	8020	18904	25785	25418	19576	13285
<b>72.5</b>	1374	1453	1789	2666	4053	10953	24531	25120	17861	7384
<b>75.0</b>	926	988	1255	2025	3022	5271	15931	16526	9557	2390
<b>77.5</b>	691	735	945	1666	2366	3351	6675	6204	3123	1214
<b>80.0</b>	486	519	720	1369	1979	2339	2690	2488	1749	702
<b>82.5</b>	302	318	514	1058	1551	1571	1377	1335	981	416
<b>85.0</b>	197	203	337	761	1025	884	585	638	467	245
<b>87.5</b>	138	142	216	531	551	249	166	209	184	136
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	2639	2639	2639	2639	2639	2639	2639	2639	2639	2639
<b>2.5</b>	2641	2658	2660	2658	2660	2664	2666	2666	2662	2656
<b>5.0</b>	2650	2667	2673	2674	2688	2709	2730	2749	2762	2769
<b>7.5</b>	2680	2700	2708	2716	2753	2801	2846	2886	2913	2924
<b>10.0</b>	2690	2714	2727	2754	2836	2920	2987	3024	3040	3046
<b>12.5</b>	2693	2719	2734	2770	2886	3007	3103	3132	3113	3104
<b>15.0</b>	2715	2747	2766	2825	2972	3091	3156	3196	3188	3166
<b>17.5</b>	2728	2757	2784	2871	3051	3181	3207	3235	3275	3241
<b>20.0</b>	2790	2801	2826	2932	3144	3240	3275	3286	3325	3304
<b>22.5</b>	3008	2974	2944	2980	3225	3313	3355	3343	3347	3337
<b>25.0</b>	3206	3099	3026	3005	3262	3357	3434	3400	3348	3349
<b>27.5</b>	3356	3175	3046	2997	3260	3387	3468	3441	3357	3358

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**CANDELA TABULATION - (Cont.)**

30.0	3540	3263	3054	2969	3248	3392	3476	3470	3404	3433
32.5	3753	3367	3053	2894	3200	3371	3472	3502	3530	3615
35.0	4024	3509	3064	2788	3119	3305	3460	3555	3683	3882
37.5	4279	3640	3077	2677	3020	3226	3430	3541	3835	4298
40.0	4510	3749	3078	2559	2903	3142	3322	3492	4422	5035
42.5	4724	3857	3081	2438	2768	3013	3180	3604	5415	5038
45.0	4935	3979	3104	2325	2623	2864	3088	3787	6404	4559
47.5	5190	4151	3171	2243	2483	2759	3017	3917	6832	4240
50.0	5525	4399	3285	2200	2358	2663	2939	3937	6774	4054
52.5	5968	4684	3425	2179	2249	2569	2842	3721	6347	3919
55.0	6366	4896	3578	2158	2131	2459	2714	3312	5684	3800
57.5	6561	5013	3686	2127	2007	2324	2550	2844	4865	3672
60.0	7121	5631	3789	2083	1878	2156	2362	2494	3906	3458
62.5	8801	6274	3506	1942	1709	1960	2162	2182	2929	3271
65.0	10632	6348	2880	1642	1479	1721	1928	1867	2093	2981
67.5	11104	5390	2040	1219	1218	1416	1579	1609	1580	2583
70.0	7635	2980	1176	893	985	1078	1216	1355	1319	2136
72.5	2900	1290	644	690	792	794	898	1098	1093	1692
75.0	1125	631	428	539	634	648	727	934	868	1266
77.5	653	397	333	440	531	556	623	626	524	714
80.0	387	266	252	345	436	449	444	459	388	492
82.5	251	178	190	277	338	287	304	330	266	314
85.0	153	107	142	232	195	190	218	184	138	168
87.5	75	49	110	146	115	105	91	75	52	66
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

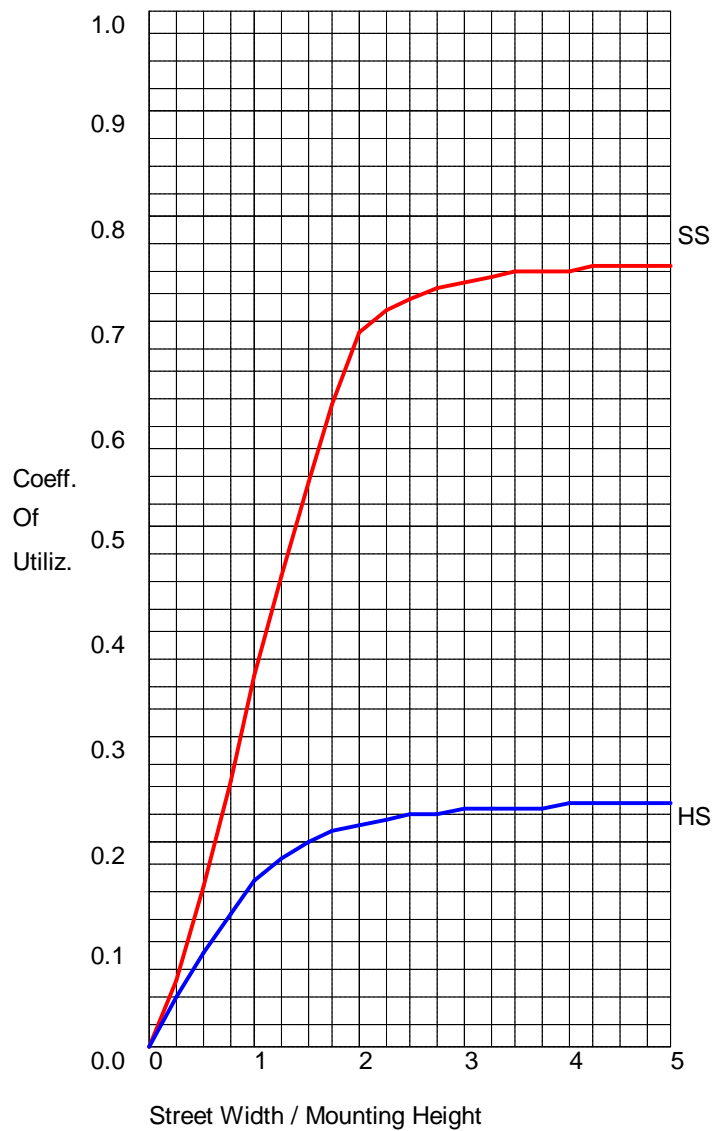
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	2639	2639
2.5	2649	2636
5.0	2769	2766
7.5	2927	2922
10.0	3043	3032
12.5	3104	3090
15.0	3178	3165
17.5	3243	3232
20.0	3281	3273
22.5	3285	3283
25.0	3278	3273
27.5	3293	3286
30.0	3394	3378
32.5	3634	3614
35.0	3922	3857
37.5	4187	4050
40.0	4085	3808
42.5	3588	3405
45.0	3359	3213
47.5	3219	3080
50.0	3059	2917
52.5	2870	2713
55.0	2691	2499
57.5	2528	2254
60.0	2346	1963
62.5	2255	1767
65.0	2164	1732

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	2181	1930
<b>70.0</b>	2253	2140
<b>72.5</b>	2159	2230
<b>75.0</b>	1692	2068
<b>77.5</b>	1321	1643
<b>80.0</b>	773	872
<b>82.5</b>	360	343
<b>85.0</b>	160	153
<b>87.5</b>	112	56
<b>90.0</b>	0	0

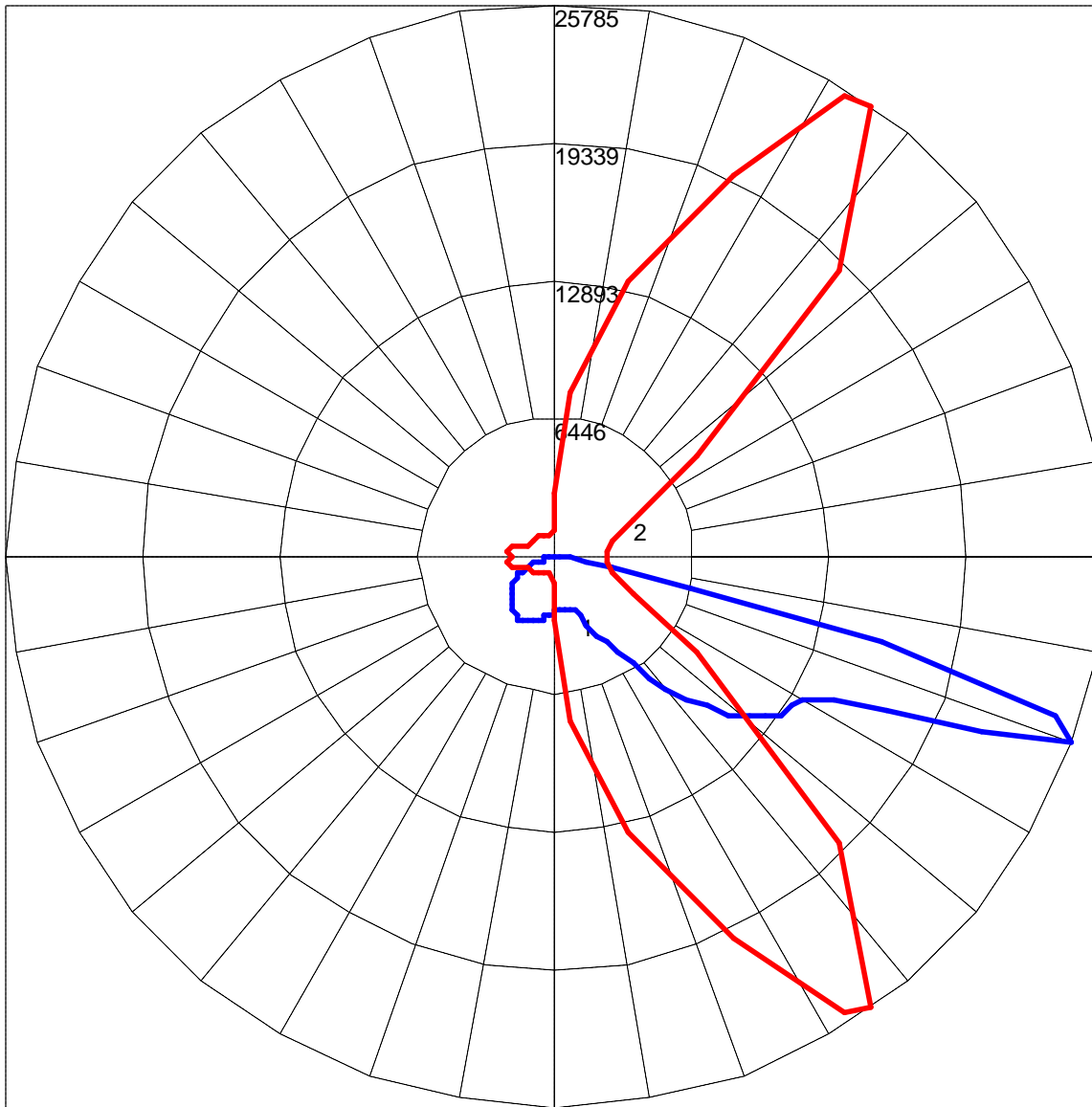
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

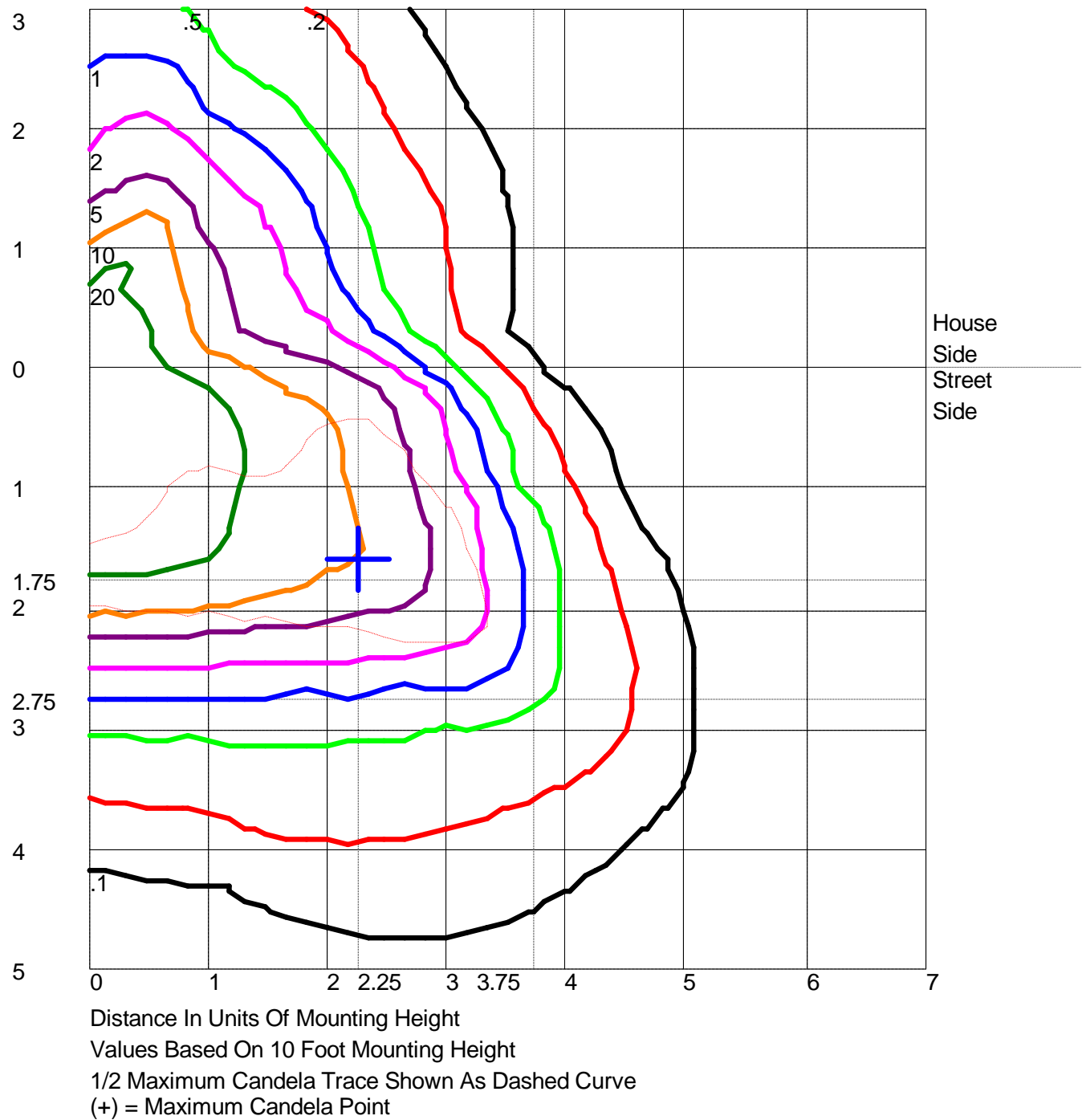
	Lumens	Percent Of Luminaire
Downward Street Side	21824.3	76.1
Downward House Side	6843.1	23.9
Downward Total	28667.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28667.4	100.0

POLAR GRAPH



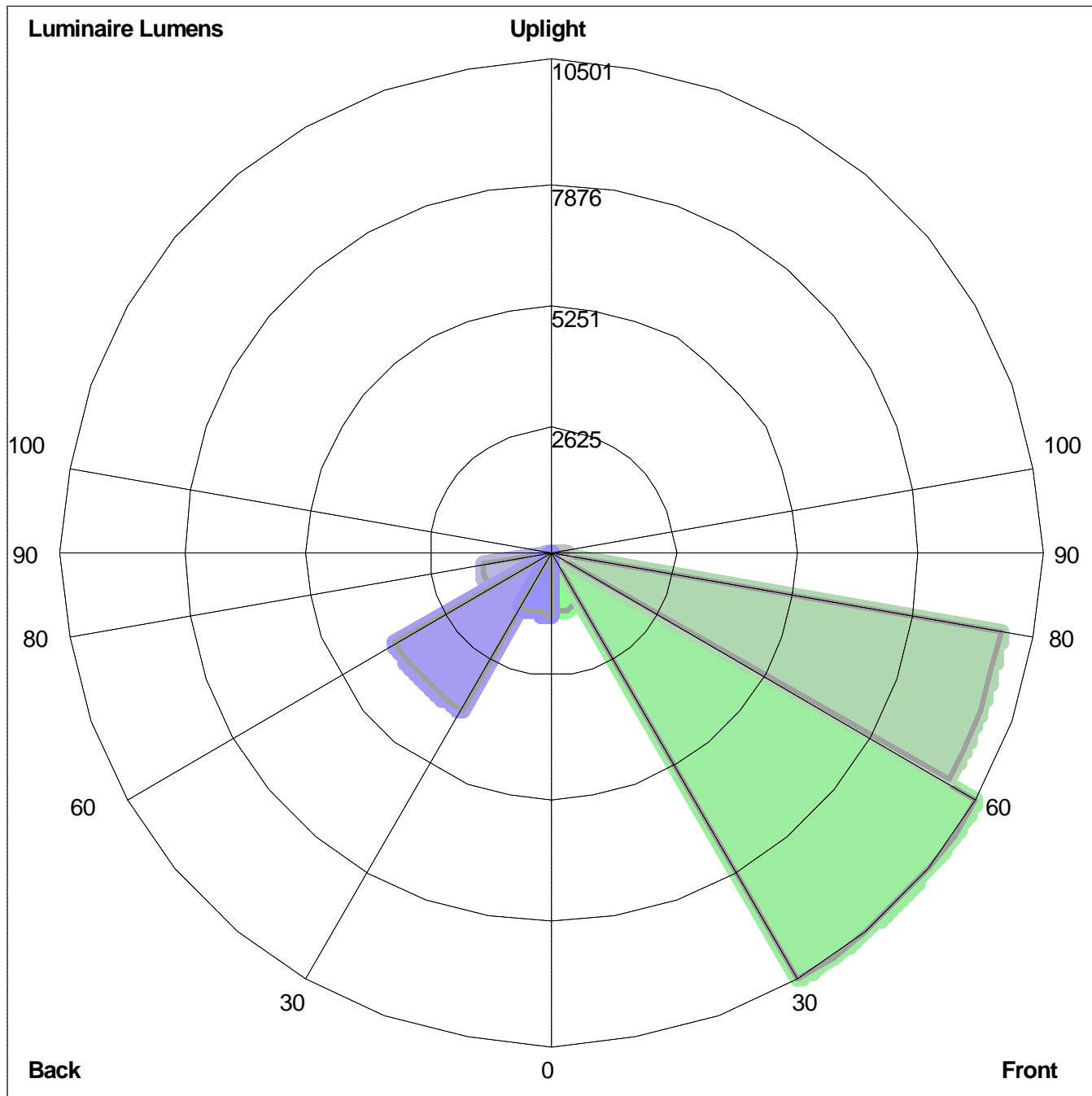
Maximum Candela = 25785 Located At Horizontal Angle = 55, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 1250.0, Medium=10501.3, High=9752.5, Very High=320.5  
Back: Low=1324.8, Medium=3882.2, High= 1528.0, Very High=108.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4