



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSQ-08L-FT-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12867
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/30/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] GSQ-08L-FT-40
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] OUTDOOR
[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7748
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	66
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3595
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	3595
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	300 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1364.5	N.A.	17.6
FM - Front-Medium (30-60)	3025.9	N.A.	39.1
FH - Front-High (60-80)	990.5	N.A.	12.8
FVH - Front-Very High (80-90)	43.9	N.A.	0.6
BL - Back-Low (0-30)	970.9	N.A.	12.5
BM - Back-Medium (30-60)	1136.9	N.A.	14.7
BH - Back-High (60-80)	204.9	N.A.	2.6
BVH - Back-Very High (80-90)	10.6	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7748.1	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles Horizontal Angles

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	2908	2908	2908	2908	2908	2908	2908	2908	2908	2908
2.5	2903	2905	2918	2925	2934	2948	2954	2959	2956	2959
5.0	2994	2996	3004	2999	2997	3003	3002	2996	2986	2979
7.5	3114	3117	3126	3124	3128	3117	3085	3049	3017	3000
10.0	3190	3190	3206	3227	3232	3231	3190	3111	3042	2997
12.5	3237	3239	3256	3273	3278	3284	3240	3137	3036	2965
15.0	3327	3322	3327	3334	3314	3292	3244	3157	3036	2952
17.5	3409	3404	3409	3407	3359	3280	3226	3159	3053	2938
20.0	3471	3467	3462	3466	3398	3307	3237	3172	3051	2906
22.5	3506	3500	3509	3506	3429	3347	3258	3170	3054	2879
25.0	3551	3544	3555	3522	3441	3372	3271	3153	3039	2840
27.5	3572	3573	3582	3548	3456	3382	3267	3119	2999	2791
30.0	3595	3580	3584	3535	3449	3360	3228	3069	2932	2720
32.5	3585	3576	3571	3503	3432	3334	3185	3017	2841	2634
35.0	3560	3551	3530	3465	3393	3286	3123	2946	2766	2542
37.5	3513	3505	3479	3427	3334	3204	3048	2868	2661	2443
40.0	3441	3429	3412	3348	3263	3118	2959	2771	2551	2323
42.5	3353	3332	3315	3248	3162	3020	2843	2650	2425	2199
45.0	3241	3228	3201	3130	3035	2906	2726	2523	2289	2064
47.5	3106	3087	3066	3000	2901	2769	2593	2394	2153	1923
50.0	2957	2936	2912	2844	2753	2609	2448	2244	2008	1776
52.5	2775	2772	2745	2678	2575	2442	2270	2075	1848	1629
55.0	2590	2584	2560	2498	2392	2261	2093	1897	1686	1476
57.5	2384	2384	2359	2297	2198	2068	1909	1726	1528	1321
60.0	2154	2148	2126	2085	1989	1861	1721	1555	1360	1170
62.5	1911	1903	1890	1837	1760	1656	1531	1377	1199	1016
65.0	1658	1652	1632	1597	1541	1448	1339	1203	1041	875
67.5	1402	1397	1381	1354	1303	1238	1148	1031	880	734
70.0	1152	1149	1134	1115	1076	1032	959	864	734	608
72.5	909	897	898	886	860	822	778	695	595	490
75.0	663	673	675	670	655	633	597	541	465	381
77.5	458	459	473	472	467	457	429	392	343	280
80.0	279	279	285	297	292	300	286	264	228	191
82.5	127	128	134	143	152	159	161	153	135	111
85.0	18	19	24	27	42	55	63	65	59	47
87.5	0	0	1	1	1	1	3	6	9	8
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles Horizontal Angles

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0.0	2908	2908	2908	2908	2908	2908	2908	2908	2908	2908
2.5	2959	2958	2939	2923	2906	2883	2864	2842	2822	2815
5.0	2974	2966	2935	2902	2869	2828	2792	2760	2736	2728
7.5	2986	2970	2918	2871	2826	2776	2730	2678	2641	2622
10.0	2972	2944	2875	2823	2767	2695	2634	2581	2537	2517
12.5	2936	2903	2815	2743	2671	2591	2529	2471	2434	2398
15.0	2915	2871	2767	2678	2583	2480	2411	2360	2323	2283
17.5	2897	2847	2733	2612	2497	2388	2304	2240	2169	2123
20.0	2864	2812	2677	2547	2420	2289	2174	2080	2023	1985
22.5	2822	2756	2615	2453	2314	2164	2035	1935	1879	1832
25.0	2775	2691	2529	2349	2196	2023	1899	1794	1731	1681
27.5	2707	2618	2435	2242	2076	1884	1753	1645	1573	1531

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CANDELA TABULATION - (Cont.)

30.0	2635	2538	2339	2137	1942	1753	1604	1496	1422	1377
32.5	2544	2439	2221	2015	1791	1609	1457	1343	1262	1208
35.0	2440	2333	2102	1878	1646	1464	1310	1188	1103	1049
37.5	2331	2209	1974	1736	1498	1308	1158	1035	943	897
40.0	2208	2085	1844	1593	1359	1165	1012	891	798	756
42.5	2067	1953	1716	1445	1216	1023	861	741	669	630
45.0	1929	1814	1573	1301	1076	885	725	619	558	523
47.5	1792	1678	1424	1164	946	749	608	515	456	429
50.0	1646	1531	1281	1034	818	632	505	422	368	344
52.5	1497	1385	1145	893	694	527	415	339	293	270
55.0	1349	1244	1011	773	586	436	336	271	234	214
57.5	1207	1104	877	662	490	358	271	217	185	170
60.0	1064	968	756	563	402	289	216	173	146	135
62.5	922	839	644	470	329	230	171	137	119	111
65.0	785	710	543	389	266	185	137	110	99	94
67.5	662	596	449	317	213	148	109	91	84	81
70.0	546	485	362	253	168	115	87	75	71	69
72.5	438	389	287	197	128	90	69	62	59	58
75.0	340	301	220	142	96	67	53	50	48	48
77.5	249	221	160	99	67	47	39	37	37	37
80.0	171	151	105	64	42	30	27	26	26	26
82.5	102	88	60	36	23	17	16	16	17	17
85.0	43	40	25	15	9	8	8	8	9	9
87.5	8	7	5	3	2	2	2	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

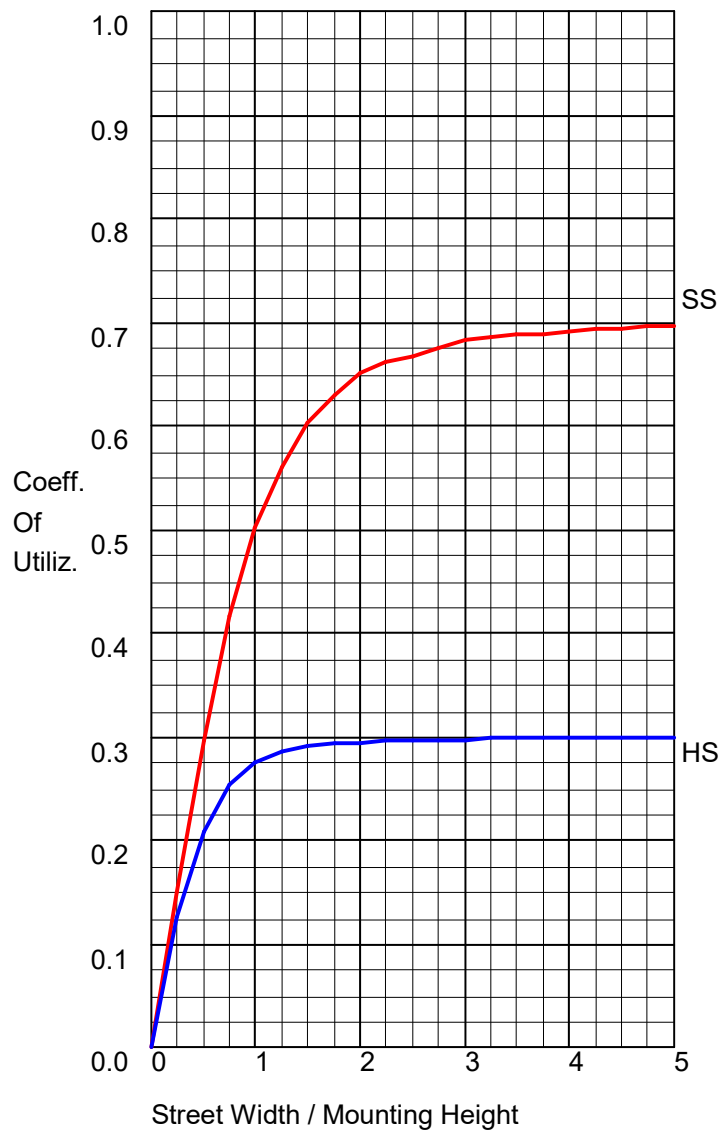
	180
0.0	2908
2.5	2813
5.0	2726
7.5	2621
10.0	2516
12.5	2394
15.0	2277
17.5	2111
20.0	1979
22.5	1829
25.0	1674
27.5	1508
30.0	1360
32.5	1202
35.0	1042
37.5	893
40.0	752
42.5	626
45.0	519
47.5	425
50.0	341
52.5	270
55.0	208
57.5	166
60.0	134
62.5	110
65.0	94

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CANDELA TABULATION - (Cont.)

67.5	81
70.0	69
72.5	59
75.0	48
77.5	36
80.0	26
82.5	17
85.0	9
87.5	1
90.0	0

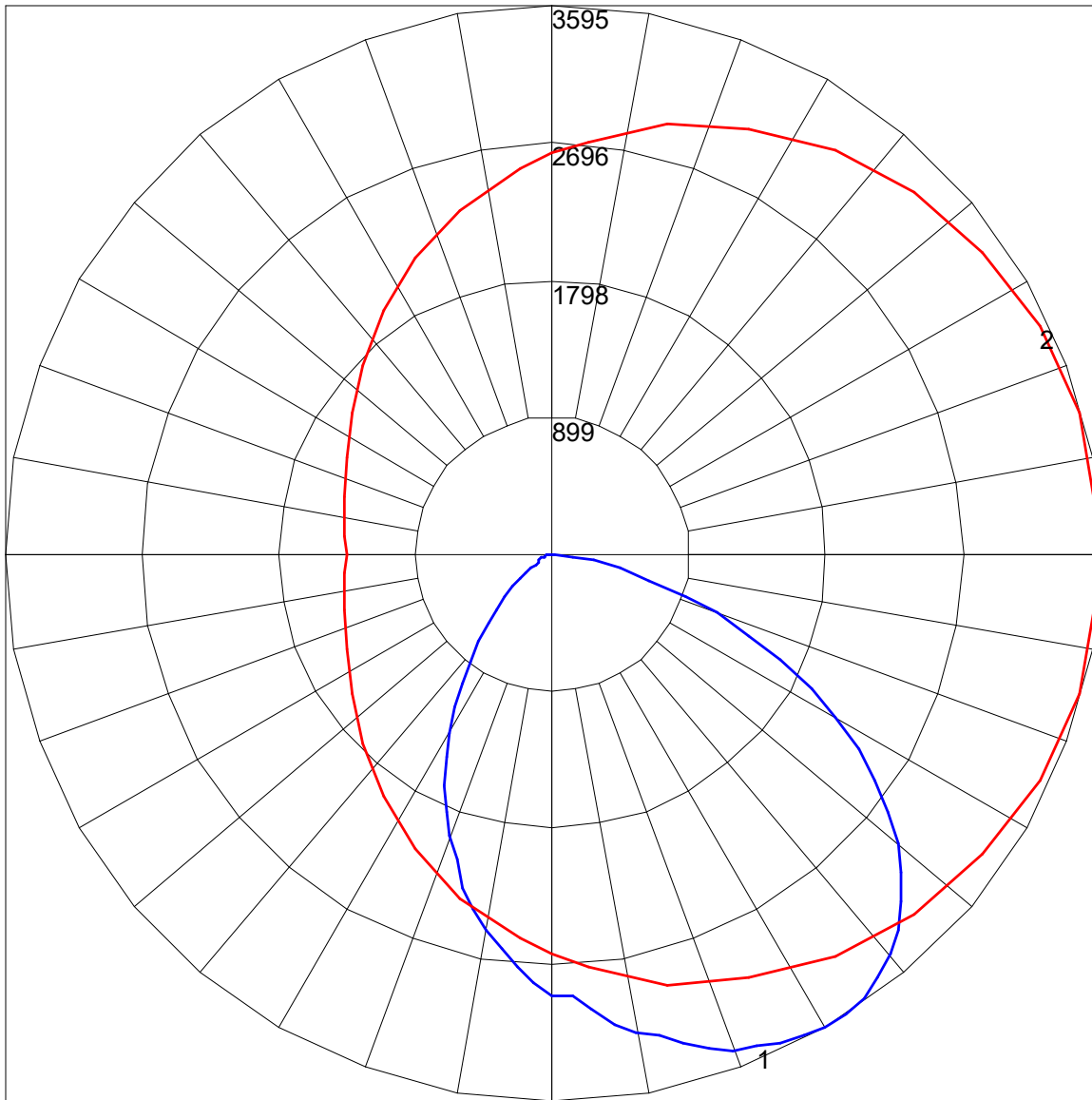
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

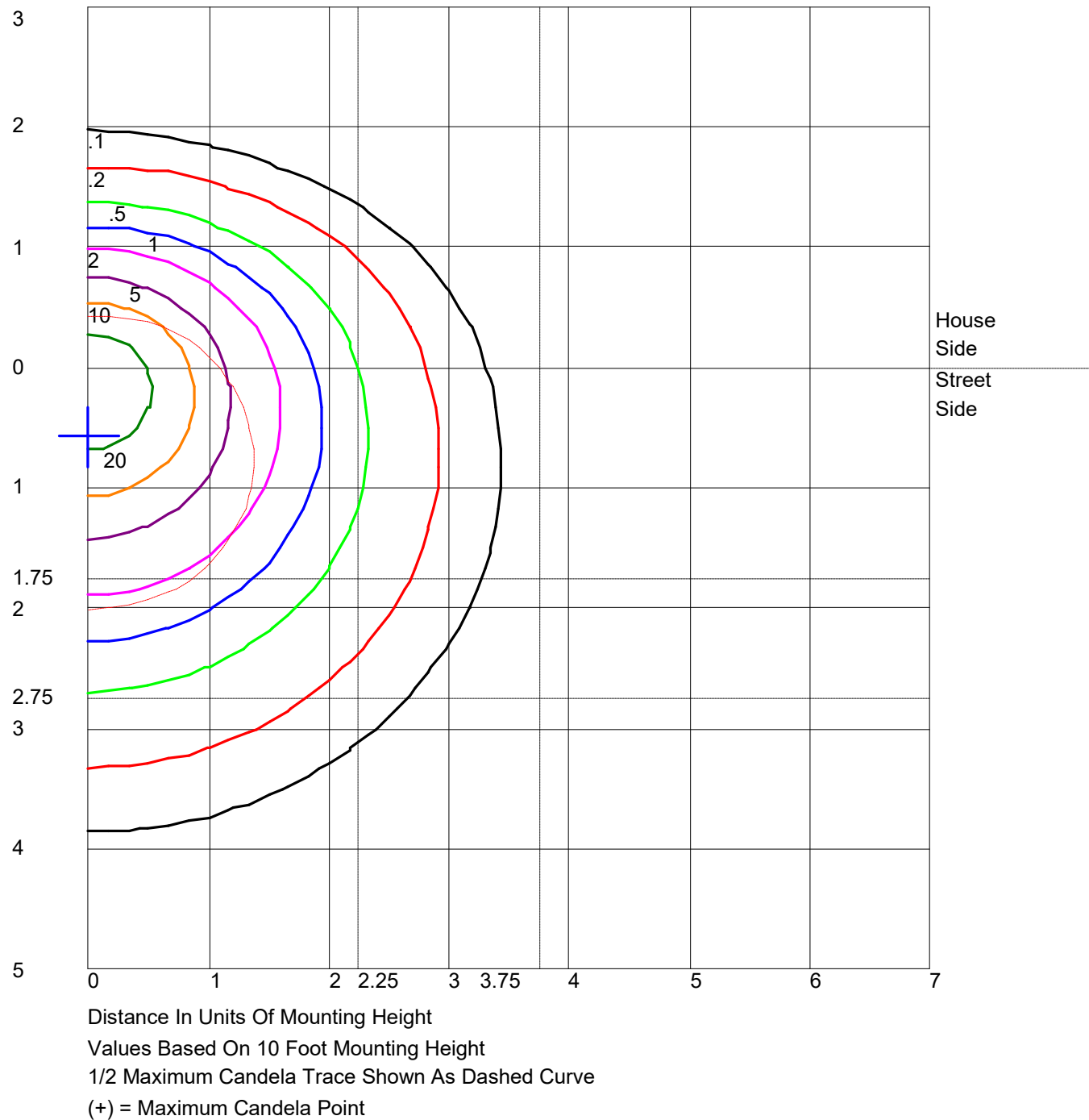
	Lumens	Percent Of Luminaire
Downward Street Side	5424.8	70.0
Downward House Side	2323.3	30.0
Downward Total	7748.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7748.1	100.0

POLAR GRAPH

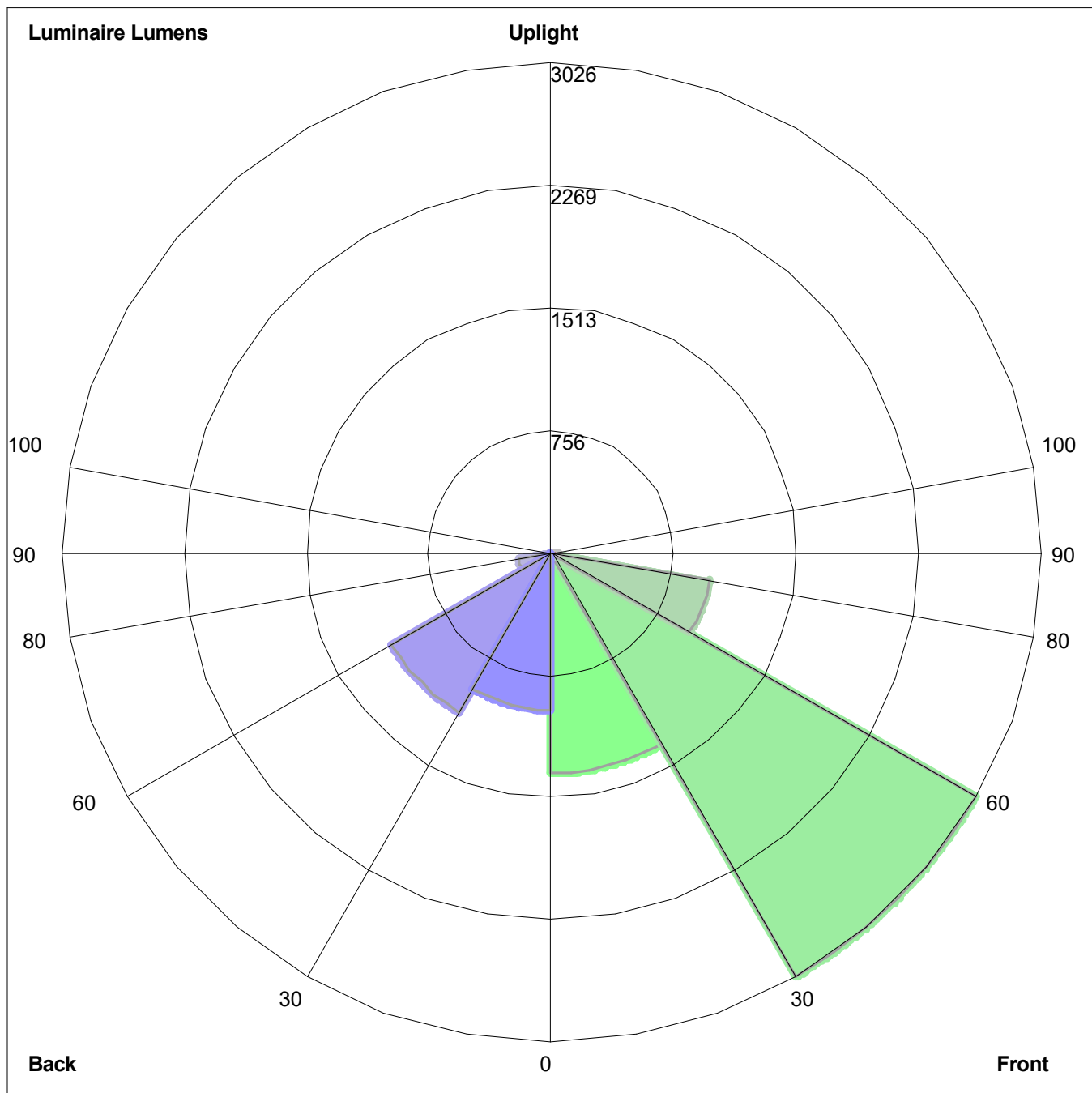


Maximum Candela = 3595 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1364.5, Medium=3025.9, High=990.5, Very High=43.9
Back: Low=970.9, Medium=1136.9, High=204.9, Very High=10.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1