



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11802
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/05/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-LED-18L-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21353
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	149.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12728
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	12728
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4101 (19.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-50.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1369.4	N.A.	6.4
FM - Front-Medium (30-60)	6500.6	N.A.	30.4
FH - Front-High (60-80)	7139.5	N.A.	33.4
FVH - Front-Very High (80-90)	425.9	N.A.	2.0
BL - Back-Low (0-30)	1338.4	N.A.	6.3
BM - Back-Medium (30-60)	3190.5	N.A.	14.9
BH - Back-High (60-80)	1283.9	N.A.	6.0
BVH - Back-Very High (80-90)	104.6	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	21352.7	N.A.	100.0
BUG Rating	B3-U0-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-50.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	2932	2932	2932	2932	2932	2932	2932	2932	2932	2932
2.5	2912	2913	2915	2928	2925	2926	2932	2934	2933	2938
5.0	2865	2872	2878	2887	2904	2916	2924	2942	2953	2966
7.5	2797	2807	2818	2845	2876	2893	2915	2961	2994	3009
10.0	2784	2788	2800	2826	2865	2880	2906	2970	3029	3061
12.5	2805	2811	2826	2857	2891	2903	2932	2994	3064	3123
15.0	2863	2866	2885	2912	2946	2961	2987	3043	3105	3179
17.5	2949	2960	2974	2997	3033	3052	3066	3110	3164	3239
20.0	3061	3075	3092	3121	3143	3152	3164	3186	3223	3291
22.5	3214	3217	3234	3262	3285	3290	3289	3293	3295	3335
25.0	3401	3394	3409	3429	3451	3448	3441	3407	3381	3391
27.5	3609	3620	3626	3630	3637	3635	3617	3547	3475	3446
30.0	3868	3873	3874	3869	3861	3853	3824	3716	3590	3510
32.5	4125	4135	4143	4137	4125	4100	4066	3914	3726	3575
35.0	4399	4412	4429	4428	4412	4374	4342	4140	3883	3664
37.5	4672	4699	4719	4752	4730	4689	4647	4422	4062	3765
40.0	4961	4991	5034	5068	5089	5057	4994	4746	4292	3900
42.5	5256	5317	5357	5424	5479	5454	5398	5111	4577	4077
45.0	5614	5637	5710	5815	5911	5887	5843	5549	4924	4301
47.5	5974	5976	6077	6254	6401	6408	6336	6098	5340	4582
50.0	6272	6278	6450	6707	6923	6944	6890	6671	5819	4934
52.5	6533	6541	6763	7110	7447	7537	7519	7333	6415	5343
55.0	6728	6757	7007	7462	7938	8093	8167	8021	7045	5837
57.5	6847	6876	7182	7782	8414	8637	8829	8772	7746	6361
60.0	6936	7005	7334	8042	8874	9215	9476	9572	8502	6886
62.5	7148	7216	7584	8380	9362	9757	10137	10416	9211	7238
65.0	7482	7574	7994	8897	9936	10365	10928	11184	9666	7232
67.5	7941	8014	8588	9688	10780	11296	11767	11596	9498	6443
70.0	7514	7638	8592	10600	11961	12306	12426	11173	8047	4659
72.5	6336	6499	7543	9896	12348	12728	12310	9349	5516	2790
75.0	4132	4268	5575	7787	10588	10926	10262	6595	3361	1778
77.5	2073	2179	3087	4921	6984	7473	6969	4138	2191	1181
80.0	980	1091	1745	2654	3675	4101	3927	2595	1381	758
82.5	589	621	1150	1665	1734	2284	2220	1395	825	414
85.0	445	470	789	1023	1188	1148	1014	626	395	223
87.5	291	331	522	562	710	499	206	231	127	90
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	85	90	95	105	115	125	135	145	155	165
0.0	2932	2932	2932	2932	2932	2932	2932	2932	2932	2932
2.5	2946	2947	2958	2938	2950	2955	2953	2948	2938	2932
5.0	2973	2980	2988	2977	2982	2976	2959	2938	2931	2924
7.5	3021	3033	3036	3023	3003	2988	2970	2963	2970	2973
10.0	3088	3102	3104	3069	3025	3009	3018	3032	3049	3041
12.5	3159	3171	3172	3113	3059	3055	3074	3088	3099	3103
15.0	3234	3242	3237	3151	3094	3102	3117	3129	3153	3155
17.5	3304	3311	3295	3180	3120	3135	3159	3169	3183	3187
20.0	3363	3367	3349	3205	3149	3164	3195	3192	3199	3209
22.5	3407	3426	3391	3216	3162	3183	3212	3202	3221	3237
25.0	3446	3464	3437	3216	3164	3191	3213	3208	3242	3264
27.5	3480	3493	3462	3200	3147	3184	3205	3213	3254	3283

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-50.IES

CANDELA TABULATION - (Cont.)

30.0	3504	3514	3470	3176	3129	3168	3190	3205	3257	3299
32.5	3522	3519	3464	3136	3096	3141	3158	3181	3252	3311
35.0	3527	3511	3456	3088	3044	3093	3109	3148	3234	3320
37.5	3548	3498	3437	3031	2984	3028	3042	3085	3207	3307
40.0	3585	3494	3418	2965	2901	2952	2959	3017	3171	3304
42.5	3636	3502	3390	2897	2797	2866	2862	2942	3148	3201
45.0	3736	3531	3378	2815	2683	2751	2754	2856	3124	2943
47.5	3872	3595	3386	2745	2556	2632	2633	2760	2980	2692
50.0	4051	3691	3419	2682	2412	2492	2501	2666	2771	2486
52.5	4294	3827	3479	2626	2262	2348	2360	2547	2551	2302
55.0	4585	3984	3541	2575	2109	2209	2212	2397	2336	2124
57.5	4890	4163	3609	2518	1958	2061	2073	2213	2099	1891
60.0	5125	4273	3564	2443	1812	1917	1929	2014	1841	1715
62.5	5162	4128	3197	2315	1663	1764	1767	1812	1646	1570
65.0	4804	3595	2456	2071	1500	1600	1589	1660	1488	1455
67.5	3884	2682	1723	1684	1327	1428	1444	1517	1346	1354
70.0	2481	1696	1214	1286	1126	1245	1306	1358	1214	1260
72.5	1411	1016	859	957	922	1055	1146	1189	1085	1136
75.0	933	648	558	695	717	847	958	1004	849	775
77.5	605	408	381	506	558	680	773	616	492	537
80.0	342	247	268	375	436	530	448	421	382	425
82.5	214	164	180	277	340	290	299	317	256	313
85.0	125	84	99	180	164	178	192	174	125	204
87.5	41	19	33	58	65	70	64	69	54	83
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

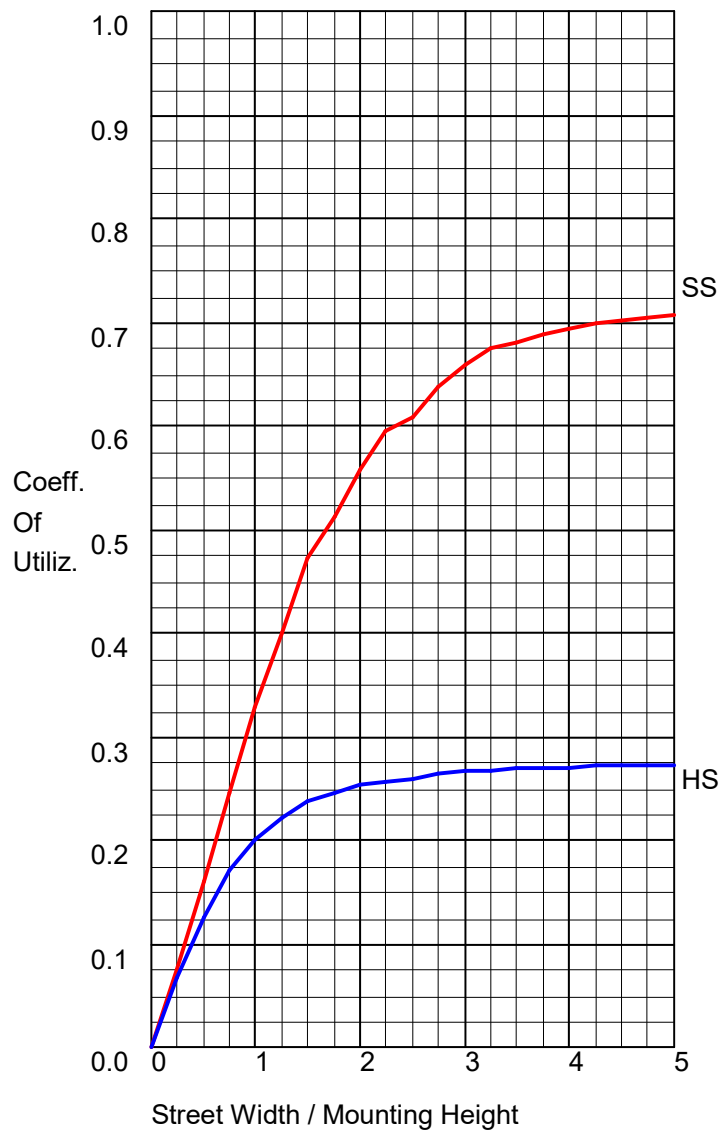
	175	180
0.0	2932	2932
2.5	2940	2935
5.0	2925	2920
7.5	2971	2966
10.0	3039	3039
12.5	3107	3102
15.0	3155	3149
17.5	3190	3180
20.0	3219	3222
22.5	3253	3258
25.0	3283	3292
27.5	3309	3322
30.0	3337	3351
32.5	3361	3369
35.0	3367	3378
37.5	3349	3359
40.0	3264	3247
42.5	2957	2941
45.0	2704	2696
47.5	2513	2488
50.0	2349	2325
52.5	2186	2164
55.0	2003	1990
57.5	1797	1781
60.0	1647	1632
62.5	1537	1527
65.0	1449	1446

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-50.IES

CANDELA TABULATION - (Cont.)

67.5	1378	1375
70.0	1322	1311
72.5	1200	1195
75.0	832	825
77.5	696	708
80.0	575	605
82.5	448	464
85.0	296	327
87.5	154	190
90.0	0	0

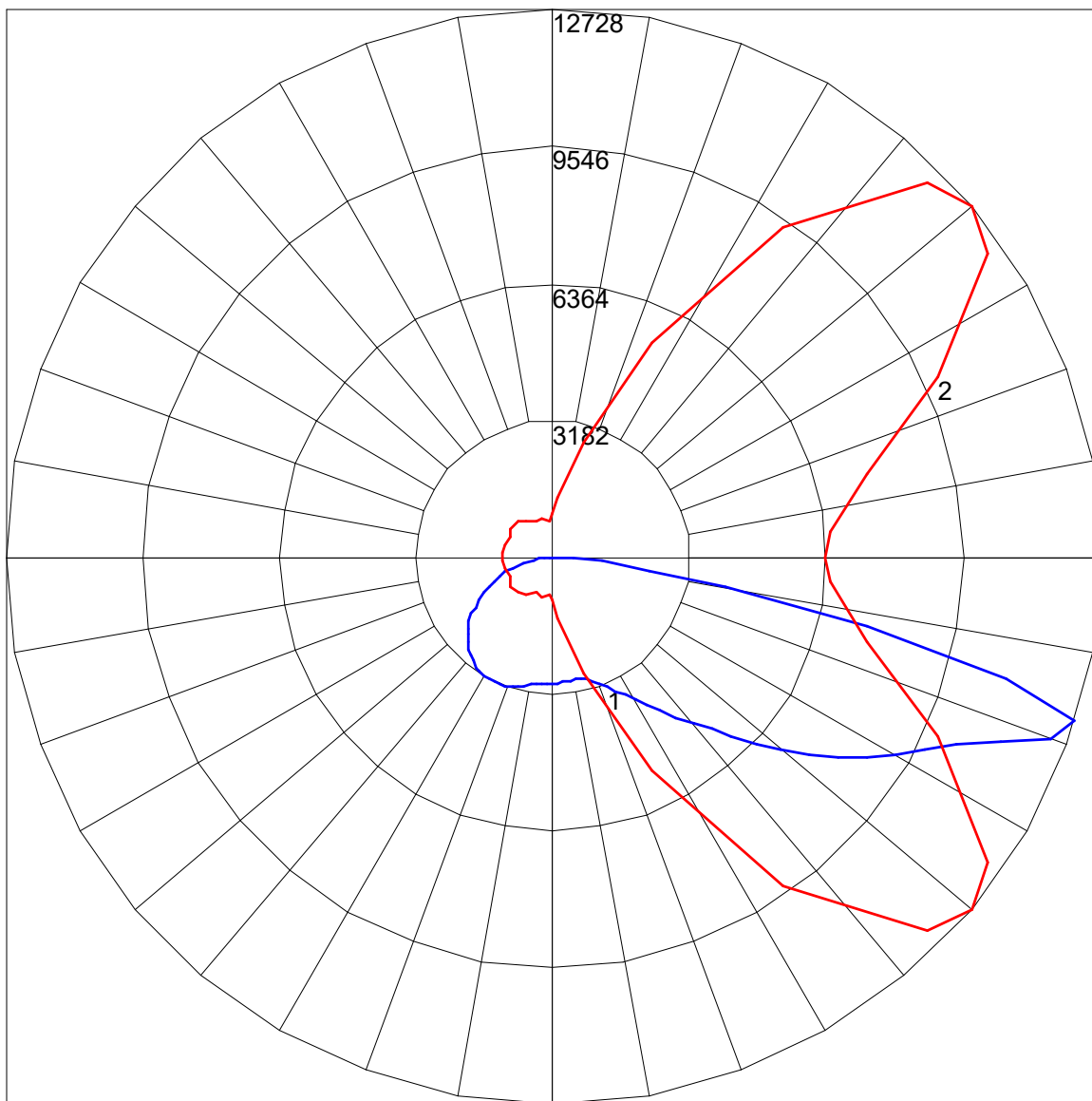
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

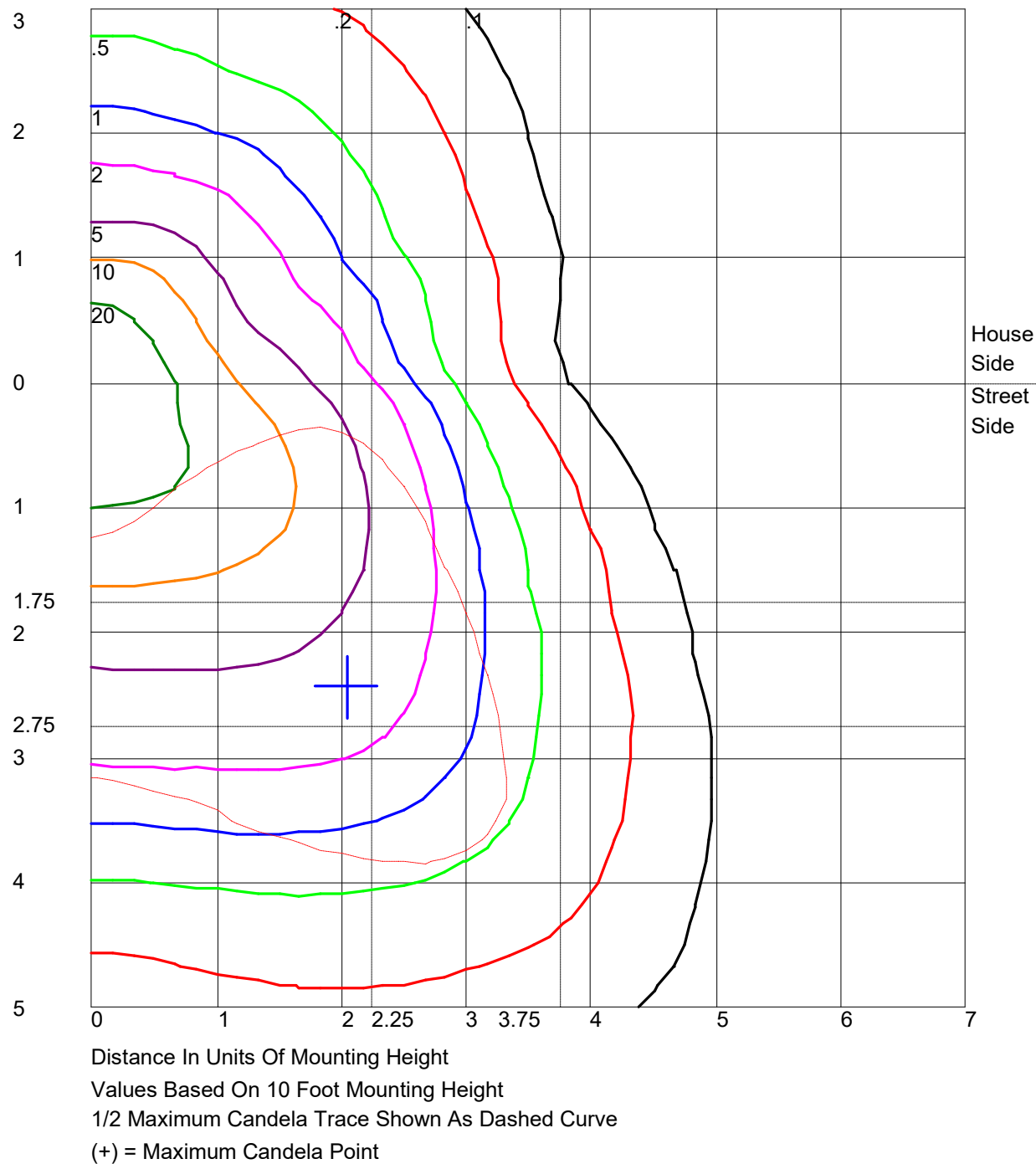
	Lumens	Percent Of Luminaire
Downward Street Side	15435.3	72.3
Downward House Side	5917.3	27.7
Downward Total	21352.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21352.6	100.0

POLAR GRAPH

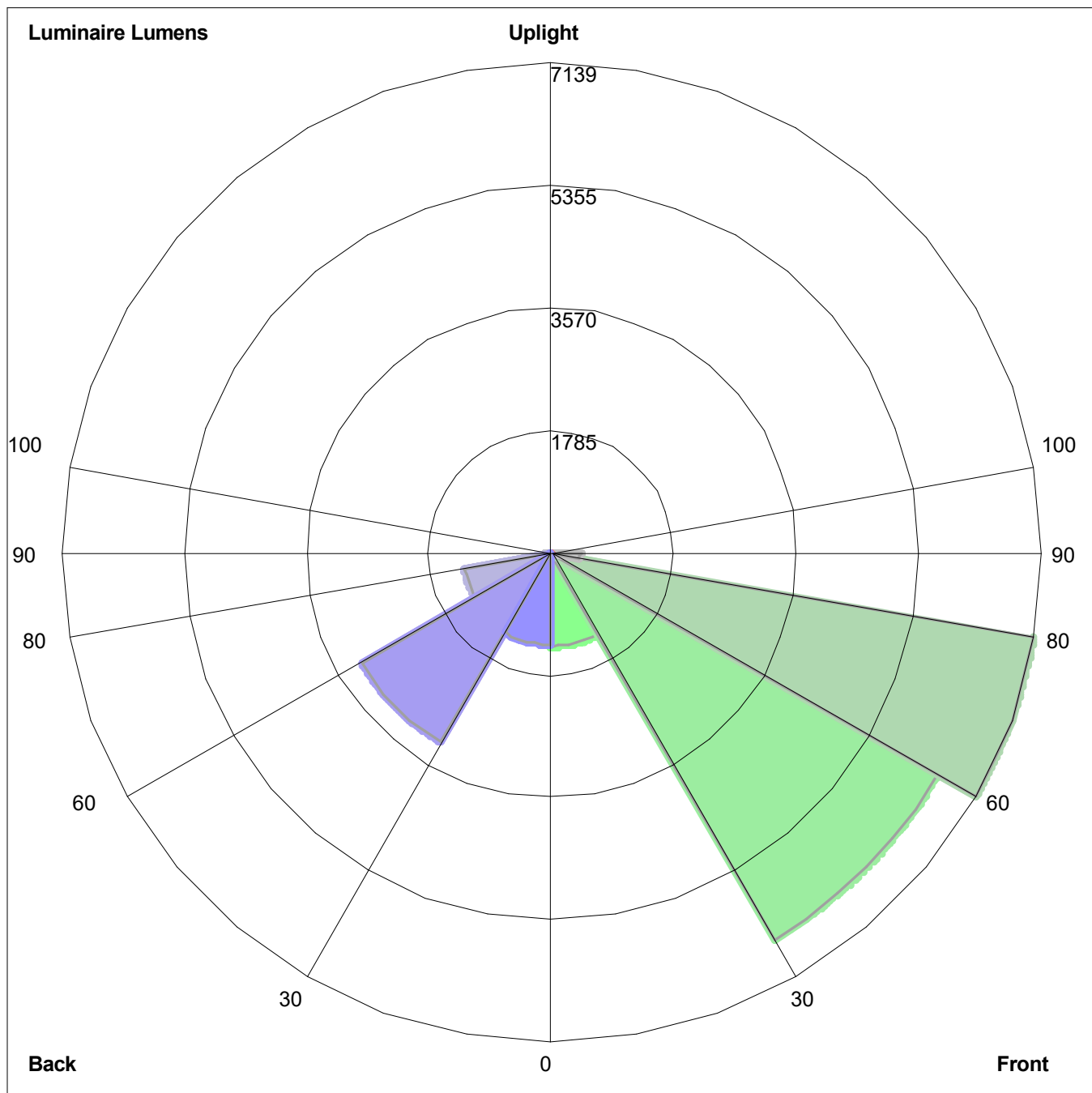


Maximum Candela = 12728 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1369.4, Medium=6500.6, High=7139.5, Very High=425.9
Back: Low=1338.4, Medium=3190.5, High=1283.9, Very High=104.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3