



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-35-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7789
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/21/16
[TESTDATE]05/06/16
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XMR-FT-LED-35-30-IL
[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	22382
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	315.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17629
Maximum Candela Angle	42.5H 65V
Maximum Candela (<90 Degrees Vertical)	17629
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2183 (9.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1576.0	N.A.	7.0
FM - Front-Medium (30-60)	9850.6	N.A.	44.0
FH - Front-High (60-80)	7963.9	N.A.	35.6
FVH - Front-Very High (80-90)	241.5	N.A.	1.1
BL - Back-Low (0-30)	942.6	N.A.	4.2
BM - Back-Medium (30-60)	1530.2	N.A.	6.8
BH - Back-High (60-80)	271.4	N.A.	1.2
BVH - Back-Very High (80-90)	5.6	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	22381.8	N.A.	100.0
BUG Rating	B2-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	3383	3383	3383	3383	3383	3383	3383	3383	3383	3383
2.5	3368	3363	3361	3369	3372	3366	3381	3384	3394	3396
5.0	3209	3210	3218	3243	3268	3280	3300	3331	3368	3395
7.5	3051	3054	3070	3105	3142	3185	3209	3280	3353	3410
10.0	2934	2940	2963	3009	3064	3119	3148	3240	3338	3429
12.5	2874	2881	2909	2968	3041	3112	3144	3242	3354	3468
15.0	2883	2896	2930	3006	3091	3169	3201	3305	3419	3529
17.5	2983	3004	3045	3130	3221	3306	3334	3421	3514	3602
20.0	3180	3204	3265	3351	3451	3527	3543	3587	3641	3692
22.5	3490	3519	3578	3675	3771	3833	3837	3833	3818	3810
25.0	3884	3938	3974	4063	4159	4222	4215	4162	4047	3956
27.5	4349	4401	4435	4515	4606	4703	4672	4560	4343	4126
30.0	4822	4876	4916	5001	5084	5217	5189	5034	4678	4316
32.5	5328	5338	5394	5496	5580	5758	5741	5570	5063	4554
35.0	5780	5790	5863	5986	6097	6310	6309	6154	5505	4824
37.5	6254	6261	6348	6494	6669	6885	6916	6775	6012	5150
40.0	6776	6783	6877	7049	7290	7490	7534	7431	6586	5573
42.5	7355	7364	7463	7699	7947	8197	8246	8134	7252	6090
45.0	8017	8052	8169	8406	8690	8955	9006	8940	8010	6694
47.5	8727	8762	8957	9225	9549	9831	9905	9886	8883	7424
50.0	9396	9428	9706	10118	10506	10879	10973	11100	9899	8143
52.5	9856	9892	10257	10982	11562	12024	12117	12292	10886	8819
55.0	10103	10169	10638	11638	12587	13270	13549	13698	11837	9442
57.5	10339	10430	11017	12262	13541	14915	14911	14853	12668	9765
60.0	10798	10938	11579	12974	14997	16050	16048	15708	13022	9620
62.5	10812	11005	11916	13963	16212	16993	16853	15913	12729	8881
65.0	10252	10456	11510	14118	16898	17629	17298	15045	11522	7552
67.5	9414	9570	10734	13383	16519	17258	16786	13645	9562	5566
70.0	7402	7345	8941	11982	14938	15732	14783	11266	6622	3525
72.5	3662	3584	4987	8309	12108	12591	12114	7971	4093	1977
75.0	1553	1648	2337	3947	7202	8536	8519	4972	2101	1032
77.5	1022	1086	1599	2361	3365	4320	4543	2673	1101	663
80.0	739	797	1252	1830	2115	2183	2145	1283	695	477
82.5	548	592	1016	1398	1236	981	819	436	429	321
85.0	406	444	709	710	416	307	261	170	191	189
87.5	118	121	182	216	109	72	70	69	73	85
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	3383	3383	3383	3383	3383	3383	3383	3383	3383	3383
2.5	3402	3418	3415	3400	3403	3404	3398	3386	3373	3361
5.0	3419	3437	3439	3415	3387	3344	3287	3231	3166	3102
7.5	3457	3484	3480	3420	3321	3167	2986	2796	2638	2537
10.0	3499	3532	3523	3402	3174	2865	2547	2251	2094	1993
12.5	3558	3593	3571	3356	2958	2499	2135	1916	1823	1782
15.0	3634	3666	3629	3273	2693	2181	1919	1822	1740	1691
17.5	3711	3737	3677	3148	2427	2014	1878	1765	1652	1575
20.0	3779	3801	3713	2995	2233	1979	1844	1688	1563	1509
22.5	3851	3865	3740	2812	2141	1977	1793	1617	1524	1515
25.0	3932	3928	3756	2635	2113	1958	1742	1567	1528	1540
27.5	4008	3976	3754	2486	2103	1928	1686	1534	1510	1536

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CANDELA TABULATION - (Cont.)

30.0	4082	4016	3734	2397	2089	1895	1629	1467	1460	1503
32.5	4168	4053	3694	2352	2062	1853	1553	1350	1385	1508
35.0	4281	4098	3659	2338	2033	1804	1439	1183	1344	1520
37.5	4426	4163	3633	2325	1990	1734	1264	1027	1253	1311
40.0	4630	4271	3633	2314	1925	1625	1088	894	963	1011
42.5	4889	4393	3655	2294	1835	1444	944	734	731	738
45.0	5227	4571	3735	2287	1703	1228	829	612	604	564
47.5	5613	4776	3847	2273	1508	1009	680	520	537	433
50.0	6022	4986	3966	2219	1204	757	518	435	443	356
52.5	6395	5168	4058	2102	846	530	386	365	331	297
55.0	6707	5303	4093	1866	585	422	310	298	242	275
57.5	6724	5262	3998	1501	469	381	265	229	217	255
60.0	6410	4981	3657	1106	419	333	222	202	167	175
62.5	5674	4264	2985	826	368	264	189	143	107	128
65.0	4460	3233	2034	617	298	195	165	96	74	92
67.5	3080	2217	1169	455	211	167	107	73	57	69
70.0	1869	1386	601	297	141	113	75	59	50	60
72.5	953	696	336	169	98	63	51	50	56	60
75.0	537	383	226	112	69	44	35	48	45	45
77.5	385	273	161	80	40	30	28	31	31	29
80.0	264	191	118	51	21	19	15	16	12	8
82.5	180	123	77	23	12	11	8	5	0	0
85.0	105	65	31	8	6	5	3	1	0	0
87.5	46	18	8	3	2	2	2	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

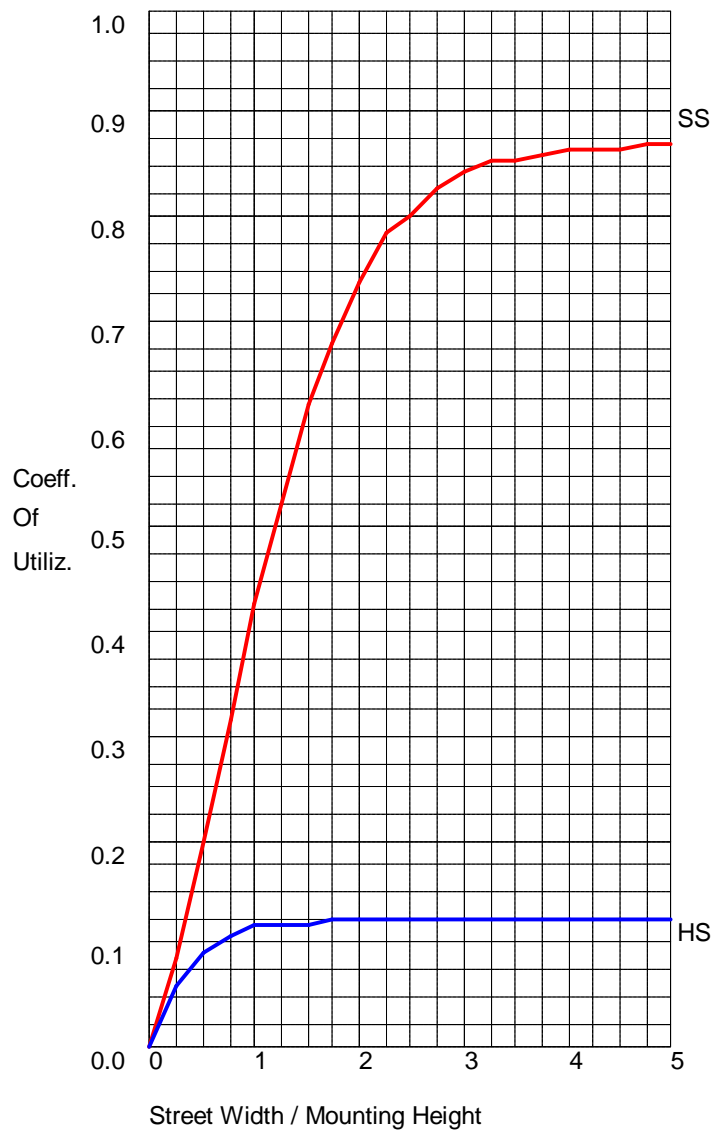
	175.0	180.0
0.0	3383	3383
2.5	3349	3338
5.0	3069	3056
7.5	2478	2466
10.0	1943	1933
12.5	1756	1748
15.0	1662	1651
17.5	1541	1536
20.0	1494	1487
22.5	1528	1525
25.0	1551	1545
27.5	1523	1512
30.0	1469	1443
32.5	1452	1409
35.0	1399	1351
37.5	1073	1008
40.0	751	699
42.5	570	536
45.0	448	429
47.5	381	369
50.0	335	327
52.5	296	296
55.0	303	305
57.5	266	264
60.0	201	191
62.5	156	151
65.0	125	125

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CANDELA TABULATION - (Cont.)

67.5	102	106
70.0	92	100
72.5	79	87
75.0	54	59
77.5	21	10
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

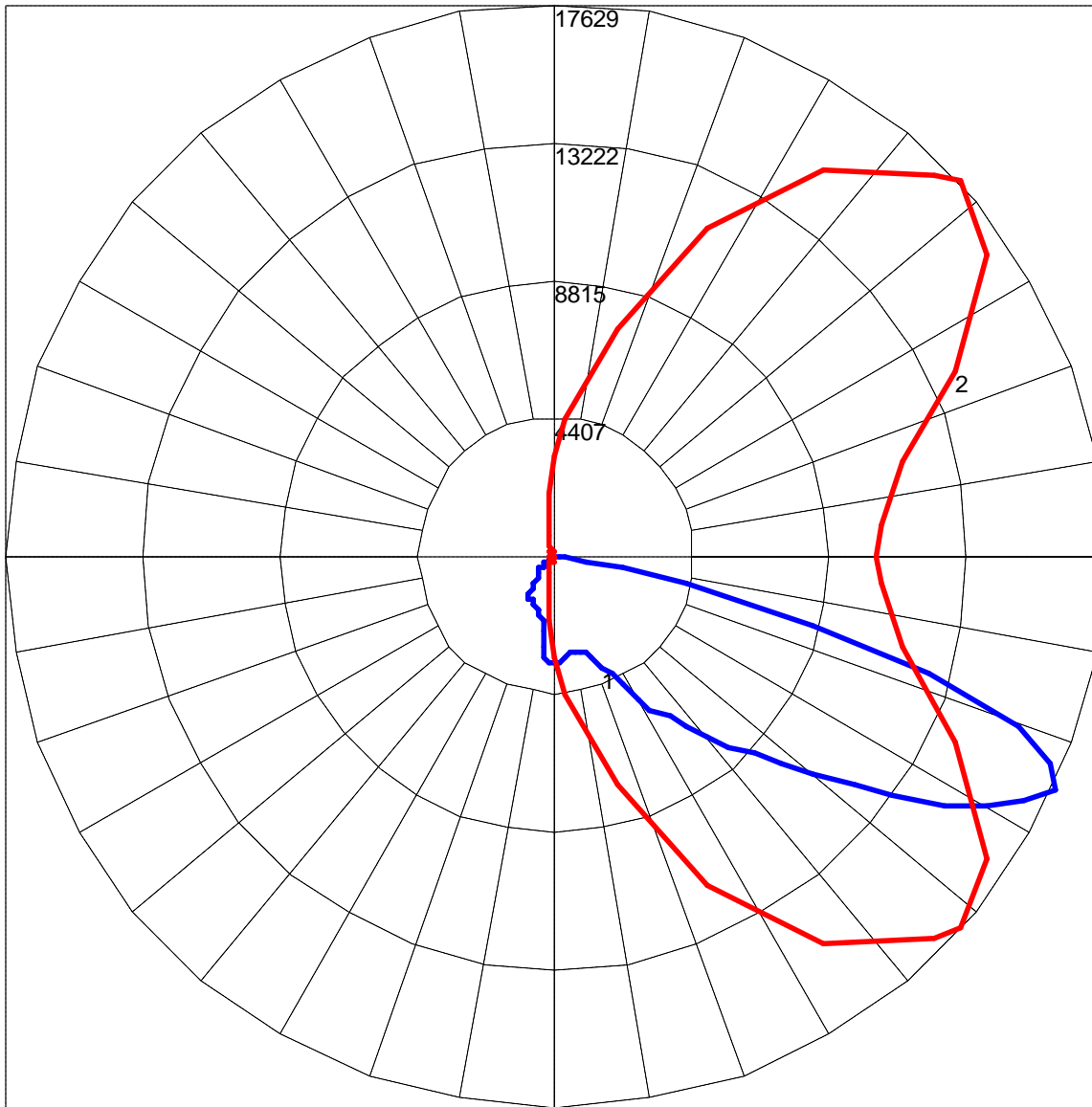
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

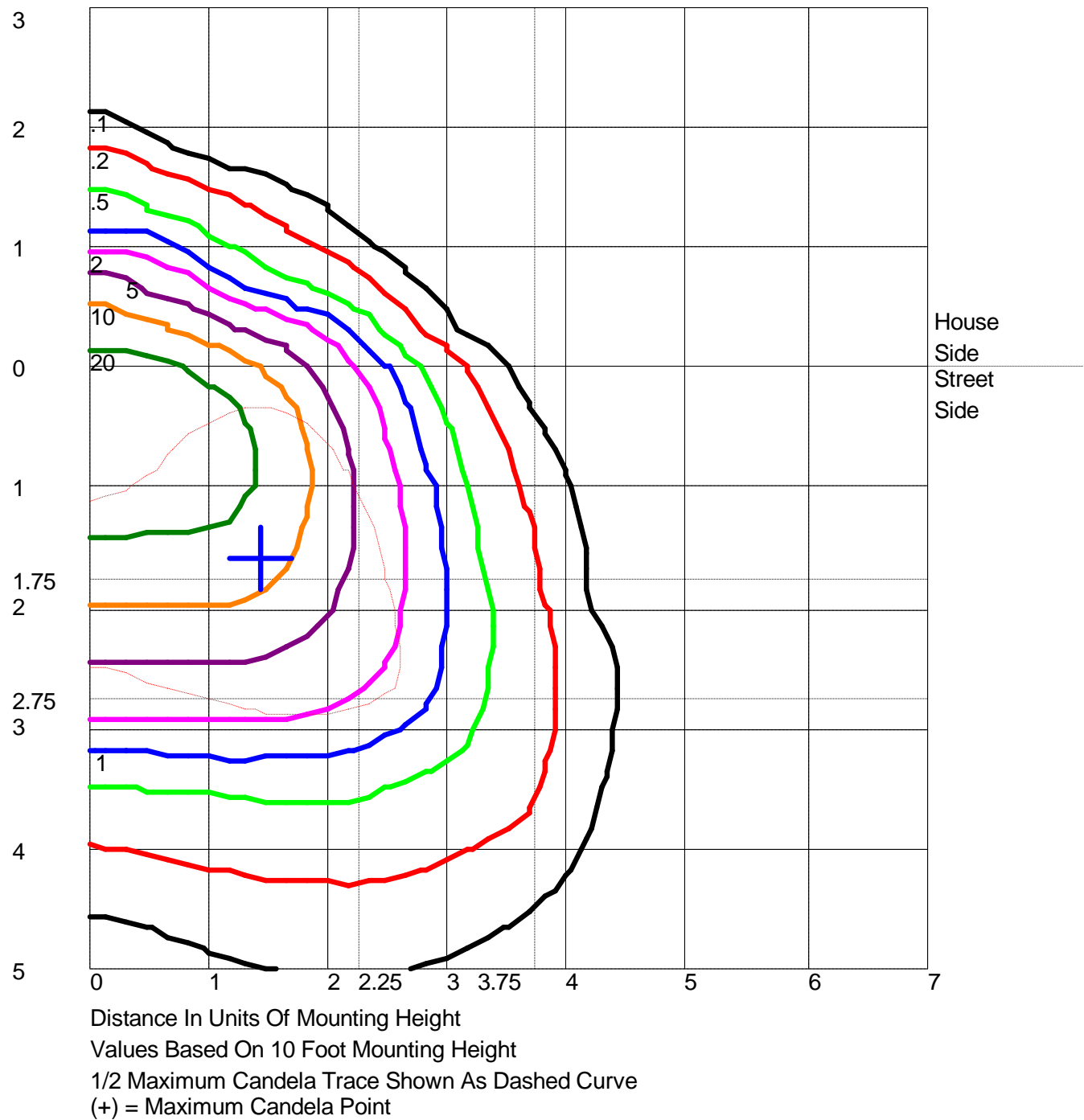
	Lumens	Percent Of Luminaire
Downward Street Side	19632.0	87.7
Downward House Side	2749.9	12.3
Downward Total	22381.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22381.9	100.0

POLAR GRAPH

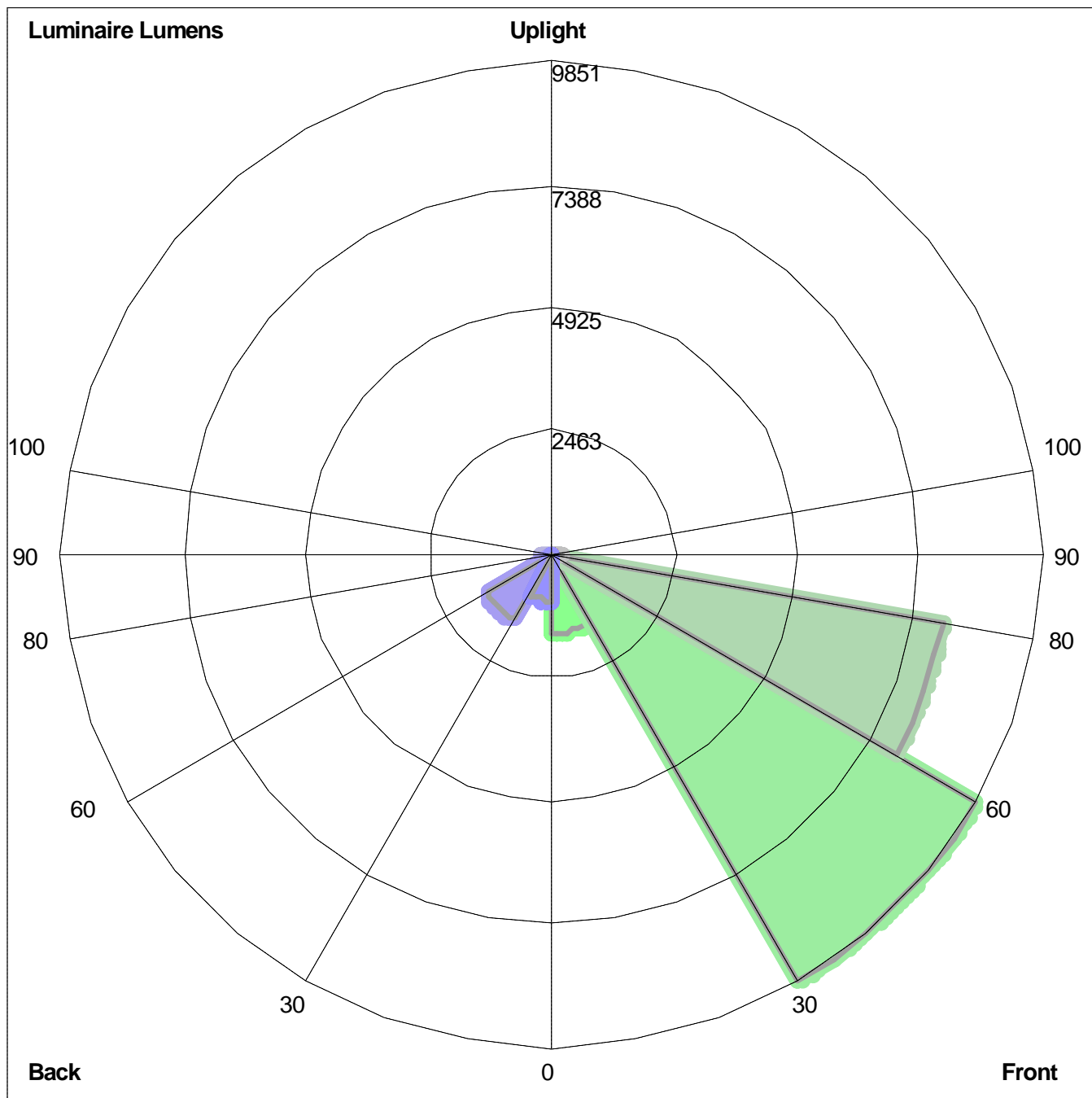


Maximum Candela = 17629 Located At Horizontal Angle = 42.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1576.0, Medium=9850.6, High=7963.9, Very High=241.5
Back: Low=942.6, Medium=1530.2, High=271.4, Very High=5.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4