



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FTA-LED-LW-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5313
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/19/14
[TEST DATE]03/19/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-FTA-LED-LW-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13473
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	136.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9755
Maximum Candela Angle	22.5H 60V
Maximum Candela (<90 Degrees Vertical)	9755
Maximum Candela Angle (<90 Degrees Vertical)	22.5H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1246 (9.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1538.5	N.A.	11.4
FM - Front-Medium (30-60)	5301.4	N.A.	39.3
FH - Front-High (60-80)	3240.5	N.A.	24.1
FVH - Front-Very High (80-90)	53.1	N.A.	0.4
BL - Back-Low (0-30)	1403.4	N.A.	10.4
BM - Back-Medium (30-60)	1588.2	N.A.	11.8
BH - Back-High (60-80)	337.4	N.A.	2.5
BVH - Back-Very High (80-90)	10.2	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	13472.7	N.A.	100.0
BUG Rating	B3-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4201	4201	4201	4201	4201	4201	4201	4201	4201	4201
2.5	4088	4115	4111	4127	4122	4130	4123	4127	4123	4126
5.0	3817	3834	3855	3884	3883	3917	3964	3995	4039	4088
7.5	3590	3594	3621	3636	3652	3694	3757	3838	3949	4044
10.0	3436	3450	3480	3490	3511	3534	3596	3711	3843	3989
12.5	3354	3373	3393	3397	3420	3451	3497	3602	3746	3951
15.0	3324	3337	3350	3348	3366	3392	3429	3521	3677	3941
17.5	3297	3320	3333	3325	3342	3343	3393	3473	3655	3980
20.0	3282	3312	3306	3307	3319	3324	3364	3444	3635	3994
22.5	3278	3293	3287	3291	3297	3309	3347	3401	3630	4049
25.0	3243	3275	3274	3271	3281	3294	3322	3414	3716	4240
27.5	3227	3261	3273	3267	3270	3285	3327	3499	3844	4393
30.0	3211	3243	3255	3268	3273	3282	3411	3659	3947	4432
32.5	3294	3318	3307	3266	3268	3307	3542	3793	3956	4304
35.0	3385	3422	3401	3367	3362	3368	3709	3853	3898	4123
37.5	3570	3601	3552	3502	3487	3607	3817	3870	3811	3956
40.0	3844	3845	3758	3717	3713	3905	3902	3829	3708	3785
42.5	4190	4189	4064	4047	4049	4199	4051	3771	3632	3623
45.0	4692	4701	4606	4563	4531	4449	4145	3730	3535	3499
47.5	5227	5227	5051	5138	5225	4749	4233	3773	3466	3397
50.0	6439	6415	6026	5907	5882	5220	4412	3797	3423	3327
52.5	7145	7163	7014	7395	7321	5681	4597	3852	3429	3353
55.0	7532	7559	7369	8114	8100	6856	4944	4052	3523	3334
57.5	8398	8438	8346	8780	8561	7641	5722	4292	3519	3178
60.0	8373	8450	8982	9755	9573	8128	6811	4504	3429	3025
62.5	6891	7121	8374	9391	9506	9060	7278	4763	3259	2758
65.0	4344	4472	5866	7141	7804	9003	7785	5279	2937	2434
67.5	2444	2526	3205	4113	4585	7063	7600	5164	2978	2173
70.0	985	1045	1455	2086	2456	4306	5707	5211	3332	1889
72.5	280	299	384	804	1180	2263	3167	4451	3387	1632
75.0	110	110	136	444	688	929	1387	2512	3000	1399
77.5	64	66	82	267	389	400	383	944	1974	1396
80.0	44	46	62	97	153	184	124	255	706	1246
82.5	25	28	35	39	43	63	70	107	177	616
85.0	13	14	16	20	21	24	31	63	68	107
87.5	0	1	2	3	4	5	6	9	14	8
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	4201	4201	4201	4201	4201	4201	4201	4201	4201	4201
2.5	4157	4158	4166	4182	4219	4242	4286	4303	4324	4318
5.0	4149	4161	4183	4244	4320	4374	4448	4463	4484	4491
7.5	4124	4164	4219	4314	4399	4469	4485	4455	4436	4429
10.0	4128	4183	4259	4375	4470	4458	4415	4359	4296	4249
12.5	4161	4228	4320	4480	4478	4403	4308	4179	4060	3972
15.0	4234	4344	4468	4609	4504	4314	4129	3933	3738	3580
17.5	4334	4463	4593	4715	4538	4208	3901	3578	3222	2899
20.0	4413	4545	4677	4719	4475	4060	3595	3013	2482	2087
22.5	4540	4695	4831	4780	4397	3856	3114	2313	1676	1307
25.0	4799	4941	5042	4892	4352	3570	2505	1629	1029	762
27.5	5089	5216	5262	5012	4325	3170	1857	1015	637	495

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CANDELA TABULATION - (Cont.)

30.0	5159	5305	5342	5049	4259	2712	1338	690	470	392
32.5	4979	5140	5194	4871	4025	2245	993	562	411	355
35.0	4808	4982	5041	4620	3590	1830	849	522	392	331
37.5	4692	4879	4945	4413	3012	1581	879	510	380	310
40.0	4517	4786	4869	4172	2429	1456	1000	513	368	295
42.5	4267	4647	4774	3927	1829	1309	1054	471	346	282
45.0	4055	4441	4627	3602	1352	1087	946	465	327	272
47.5	3838	4308	4541	3222	978	856	731	509	317	249
50.0	3732	4264	4513	2837	776	682	590	567	300	181
52.5	3741	4253	4478	2454	710	581	548	562	229	77
55.0	3616	3966	4063	2056	687	501	494	394	193	47
57.5	3407	3717	3735	1709	658	455	395	214	208	53
60.0	3169	3457	3458	1392	590	413	209	129	142	50
62.5	2735	3043	2989	1035	484	328	82	73	79	60
65.0	2423	2613	2526	789	403	176	72	70	78	60
67.5	2168	2274	2140	604	345	116	77	82	70	60
70.0	1870	1925	1720	477	216	98	88	95	75	56
72.5	1495	1460	1222	366	106	91	101	107	59	43
75.0	1057	1080	804	266	82	94	100	74	34	27
77.5	677	686	480	144	67	77	89	45	16	13
80.0	472	461	248	64	55	43	53	23	8	6
82.5	255	212	84	41	46	20	23	11	4	4
85.0	133	82	27	23	22	6	4	3	3	1
87.5	13	9	6	6	5	4	2	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

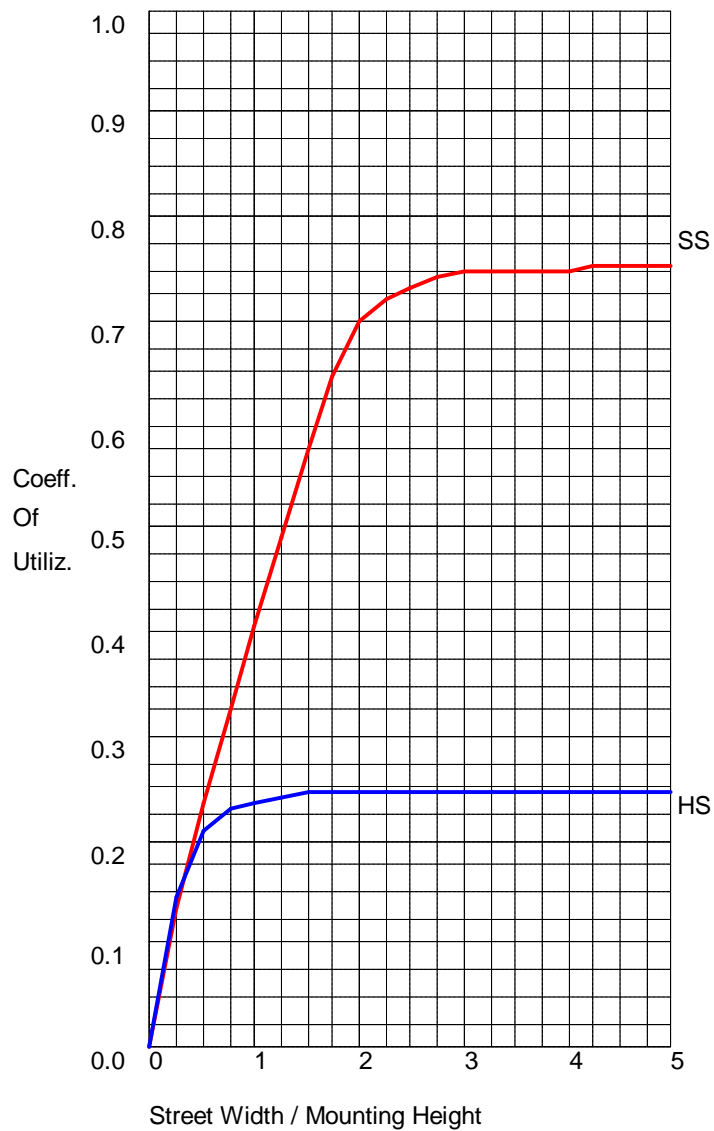
	175.0	180.0
0.0	4201	4201
2.5	4314	4350
5.0	4486	4518
7.5	4423	4456
10.0	4237	4245
12.5	3932	3939
15.0	3471	3483
17.5	2732	2739
20.0	1897	1898
22.5	1141	1138
25.0	655	650
27.5	445	444
30.0	368	367
32.5	332	330
35.0	307	305
37.5	290	283
40.0	280	266
42.5	283	261
45.0	270	246
47.5	231	213
50.0	148	111
52.5	69	37
55.0	50	30
57.5	49	29
60.0	42	31
62.5	40	38
65.0	51	48

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CANDELA TABULATION - (Cont.)

67.5	53	51
70.0	48	46
72.5	35	33
75.0	20	19
77.5	8	8
80.0	4	4
82.5	3	3
85.0	0	0
87.5	0	0
90.0	0	0

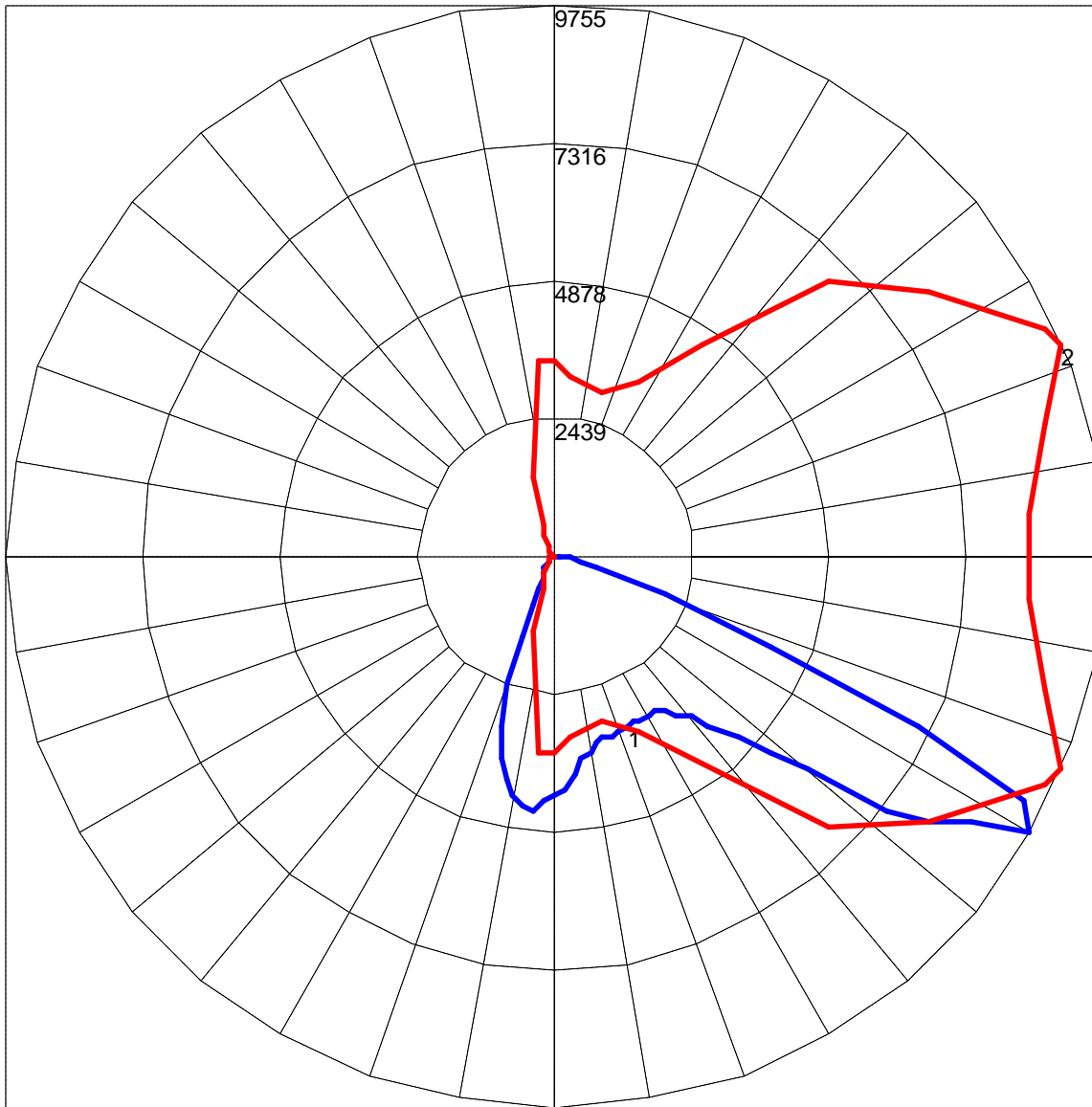
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

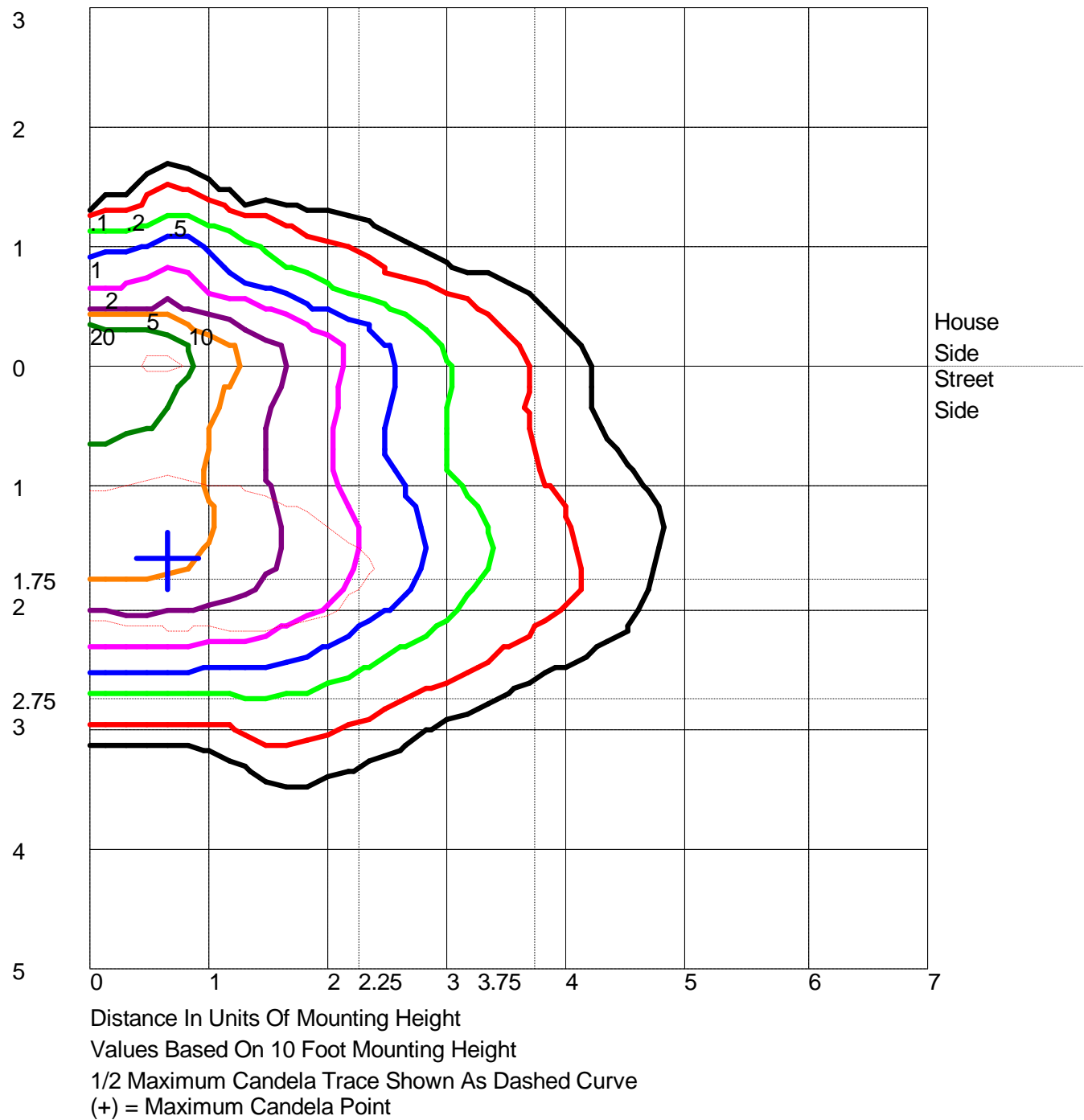
	Lumens	Percent Of Luminaire
Downward Street Side	10133.4	75.2
Downward House Side	3339.1	24.8
Downward Total	13472.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	13472.5	100.0

POLAR GRAPH

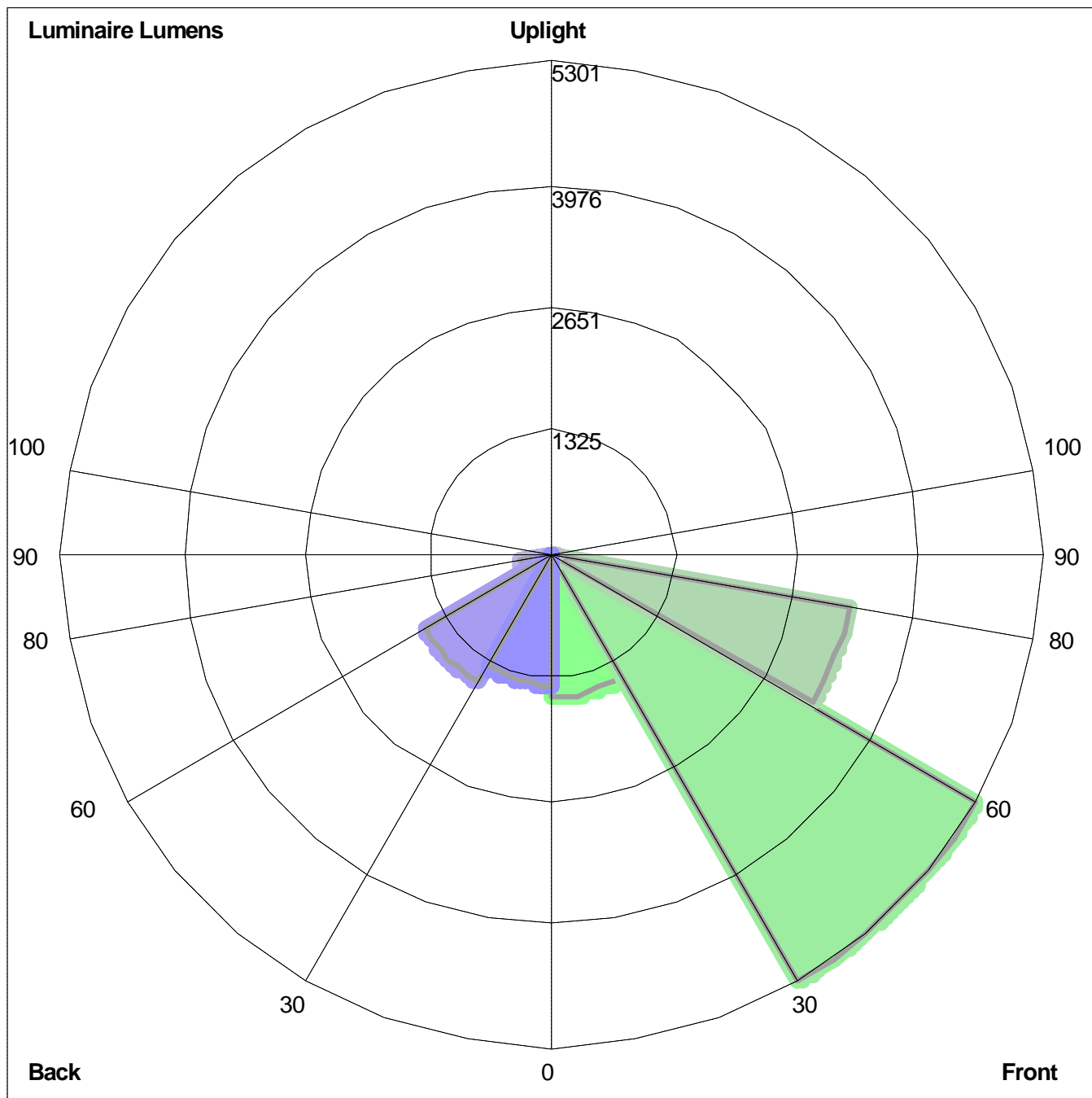


Maximum Candela = 9755 Located At Horizontal Angle = 22.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1538.5, Medium=5301.4, High=3240.5, Very High=53.1
Back: Low=1403.4, Medium=1588.2, High=337.4, Very High=10.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2