



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FTA-LED-HO-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5070
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]01/27/14
[TEST DATE]01/27/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-FTA-LED-HO-CW
[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	31808
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	300.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16461
Maximum Candela Angle	22.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	16461
Maximum Candela Angle (<90 Degrees Vertical)	22.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3332 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3785.4	N.A.	11.9
FM - Front-Medium (30-60)	12309.7	N.A.	38.7
FH - Front-High (60-80)	7796.4	N.A.	24.5
FVH - Front-Very High (80-90)	188.8	N.A.	0.6
BL - Back-Low (0-30)	3174.8	N.A.	10.0
BM - Back-Medium (30-60)	3684.5	N.A.	11.6
BH - Back-High (60-80)	839.6	N.A.	2.6
BVH - Back-Very High (80-90)	28.8	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	31808.0	N.A.	100.0
BUG Rating	B4-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>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	10194	10194	10194	10194	10194	10194	10194	10194	10194	10194
2.5	10396	10343	10327	10306	10302	10266	10229	10192	10157	10167
5.0	10216	10151	10165	10160	10172	10187	10191	10203	10194	10203
7.5	9662	9598	9649	9686	9722	9834	9941	10086	10181	10226
10.0	8862	8807	8898	8982	9045	9285	9542	9852	10095	10235
12.5	8241	8238	8278	8364	8390	8620	9001	9508	9927	10249
15.0	8036	8014	8036	8069	8086	8205	8500	9055	9702	10281
17.5	7925	7897	7915	7936	7950	8021	8186	8591	9440	10346
20.0	7902	7871	7881	7870	7875	7919	8058	8288	9138	10401
22.5	7905	7877	7885	7864	7867	7879	7957	8157	8886	10448
25.0	7926	7898	7893	7872	7873	7888	7903	8130	8756	10588
27.5	8035	8006	7967	7921	7912	7917	7935	8198	8818	10650
30.0	8279	8250	8171	8071	8045	7987	8038	8329	8973	10625
32.5	8637	8608	8510	8356	8296	8146	8281	8576	9049	10296
35.0	9094	9062	8907	8730	8661	8468	8686	8769	8939	9799
37.5	9834	9798	9491	9213	9124	8951	9031	8877	8765	9403
40.0	10586	10538	10298	10014	9930	9593	9383	8881	8631	9060
42.5	11269	11144	10902	10741	10744	10499	9792	8942	8479	8668
45.0	12271	12092	11703	11508	11536	11421	10309	9089	8321	8354
47.5	13492	13373	12916	12740	12736	12177	10963	9335	8237	8103
50.0	14334	14245	14064	14181	14185	13095	11427	9651	8305	7989
52.5	14383	14344	14668	15867	15798	14115	11956	10143	8557	7969
55.0	13162	13138	13637	15908	16200	15172	12782	10663	8842	7936
57.5	12973	12930	13119	14324	14529	15223	13860	11151	8981	7674
60.0	14174	14114	13962	14447	14344	13656	14201	11663	8842	7240
62.5	15008	14944	15485	16461	15801	13451	13193	11747	8552	6846
65.0	13126	13358	14487	16370	16228	14749	12370	11080	8043	6205
67.5	10305	10508	11370	12943	13415	15397	13105	9509	7340	5662
70.0	7019	7130	8172	9662	10452	13001	13294	8876	6818	5128
72.5	3594	3554	4317	5924	6827	9600	10383	9396	6107	4373
75.0	1307	1288	1676	2683	3149	5305	6836	7832	5615	3582
77.5	354	349	490	924	1184	2026	3055	4886	5481	2951
80.0	144	145	185	308	358	596	871	1944	3332	2558
82.5	80	84	106	133	136	184	237	456	1017	1852
85.0	48	51	57	77	76	82	104	193	197	567
87.5	14	14	14	18	20	22	26	43	64	49
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	10194	10194	10194	10194	10194	10194	10194	10194	10194	10194
2.5	10166	10157	10134	10112	10109	10107	10126	10142	10179	10177
5.0	10183	10156	10113	10061	9989	9913	9849	9785	9772	9708
7.5	10194	10164	10110	9991	9819	9625	9455	9328	9251	9195
10.0	10240	10211	10133	9917	9623	9326	9120	8990	8928	8880
12.5	10343	10316	10207	9859	9413	9075	8891	8786	8718	8660
15.0	10536	10527	10380	9859	9266	8902	8736	8561	8296	8076
17.5	10815	10831	10648	9921	9206	8816	8541	7985	7432	7032
20.0	11118	11125	10891	9921	9163	8734	8062	7079	6173	5488
22.5	11451	11437	11101	9876	9157	8497	7223	5864	4679	3902
25.0	11914	11827	11369	9932	9220	8090	6199	4517	3240	2531
27.5	12372	12267	11663	10084	9275	7580	5075	3229	2103	1571

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CANDELA TABULATION - (Cont.)

30.0	12672	12574	11874	10195	9214	6908	4048	2219	1374	1061
32.5	12533	12468	11660	10066	8883	6098	3200	1599	1035	868
35.0	12245	12218	11307	9753	8157	5181	2617	1353	903	792
37.5	11994	12058	11058	9458	7135	4219	2385	1346	857	734
40.0	11564	11742	10695	9082	6057	3256	2399	1329	824	687
42.5	10924	11241	10345	8598	4947	2564	2175	1178	796	657
45.0	10425	10847	10017	8055	3783	2141	1819	1195	765	616
47.5	10062	10627	9790	7440	2827	1793	1568	1244	773	561
50.0	9793	10525	9693	6776	2155	1505	1380	1269	701	407
52.5	9581	10515	9668	6103	1769	1298	1223	1087	548	239
55.0	9120	9991	9303	5328	1579	1104	1067	746	466	194
57.5	8412	9383	8584	4434	1459	921	796	441	415	206
60.0	7701	8737	7893	3602	1325	814	430	291	306	230
62.5	6880	7910	6937	2760	1181	664	262	231	262	231
65.0	5922	6713	5870	2048	959	404	239	244	234	188
67.5	5191	5683	4995	1575	762	278	263	300	207	145
70.0	4565	4989	4117	1272	532	256	283	296	150	100
72.5	3702	3965	3050	969	318	276	275	193	97	67
75.0	2774	2877	2130	695	234	245	200	122	64	44
77.5	1863	1981	1314	430	231	162	134	79	44	28
80.0	1365	1268	753	253	193	83	74	40	21	14
82.5	811	615	349	159	122	39	31	14	8	5
85.0	387	256	100	69	39	12	9	5	3	1
87.5	94	37	12	12	8	6	4	2	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

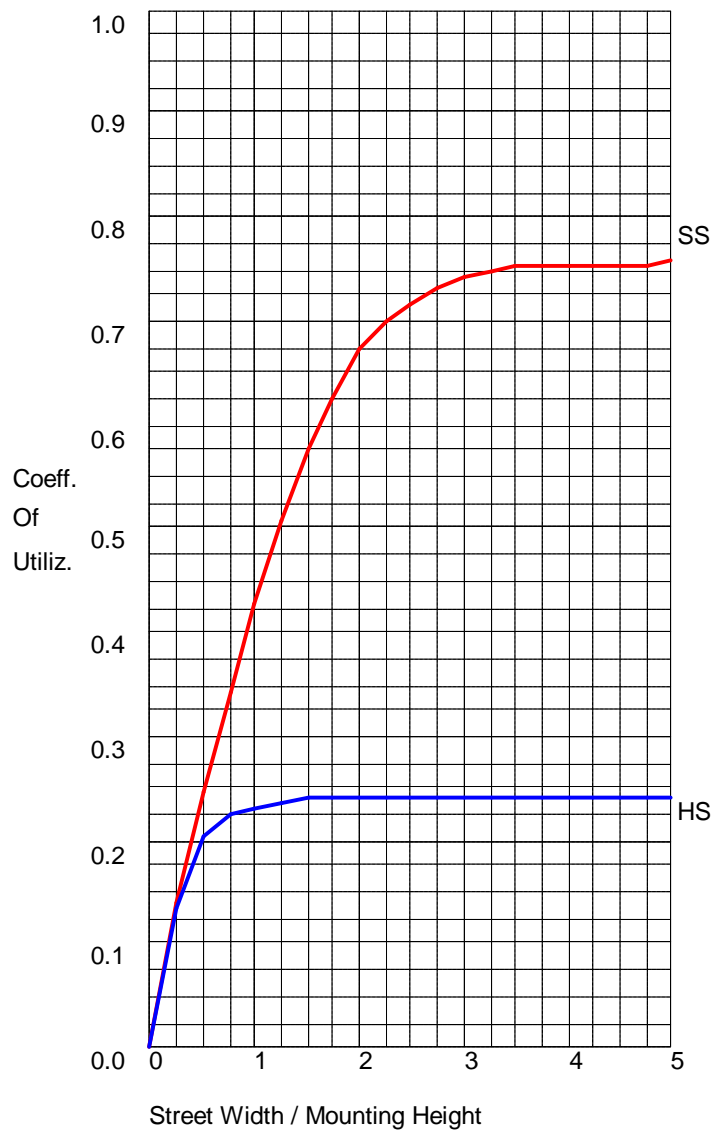
	175.0	180.0
0.0	10194	10194
2.5	10203	10218
5.0	9707	9677
7.5	9182	9159
10.0	8871	8860
12.5	8625	8603
15.0	7945	7883
17.5	6792	6700
20.0	5144	5109
22.5	3534	3490
25.0	2225	2193
27.5	1345	1355
30.0	968	971
32.5	821	817
35.0	750	734
37.5	701	679
40.0	677	644
42.5	643	602
45.0	594	557
47.5	491	445
50.0	314	254
52.5	174	145
55.0	147	111
57.5	156	129
60.0	165	154
62.5	173	162
65.0	157	147

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CANDELA TABULATION - (Cont.)

67.5	115	108
70.0	75	71
72.5	51	48
75.0	34	33
77.5	22	22
80.0	12	11
82.5	5	4
85.0	0	0
87.5	0	0
90.0	0	0

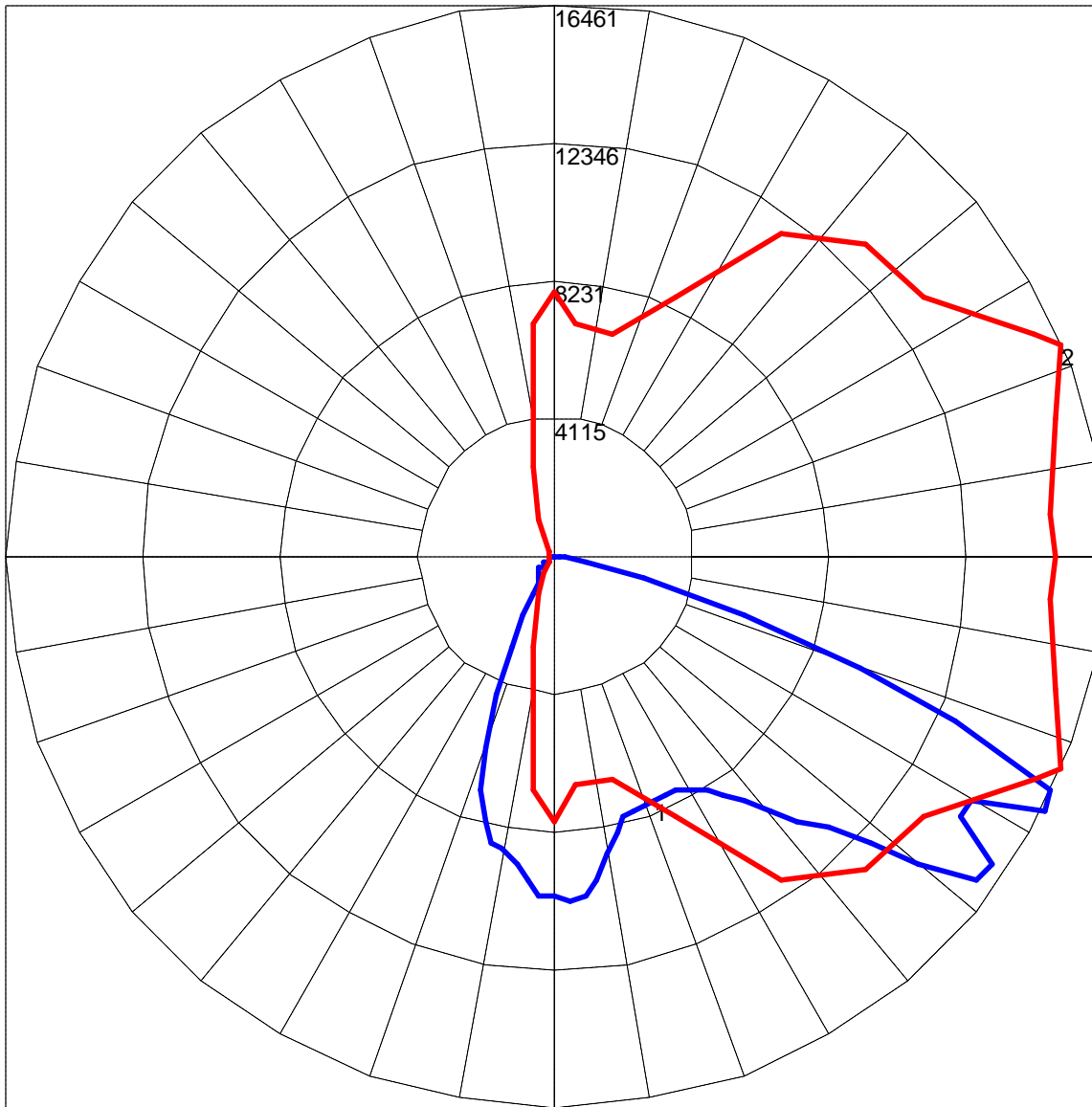
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

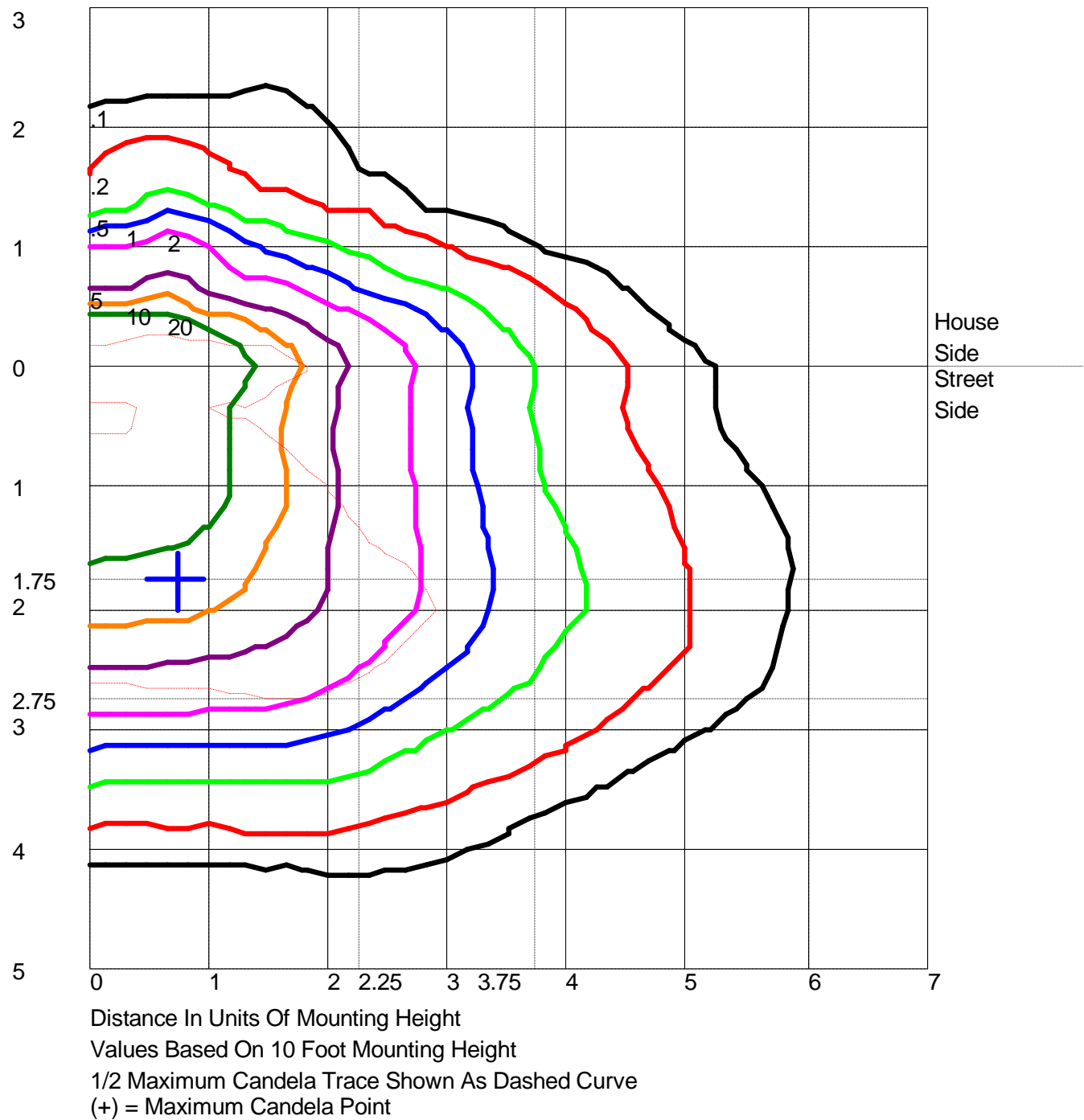
	Lumens	Percent Of Luminaire
Downward Street Side	24080.3	75.7
Downward House Side	7727.7	24.3
Downward Total	31808.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31808.0	100.0

POLAR GRAPH

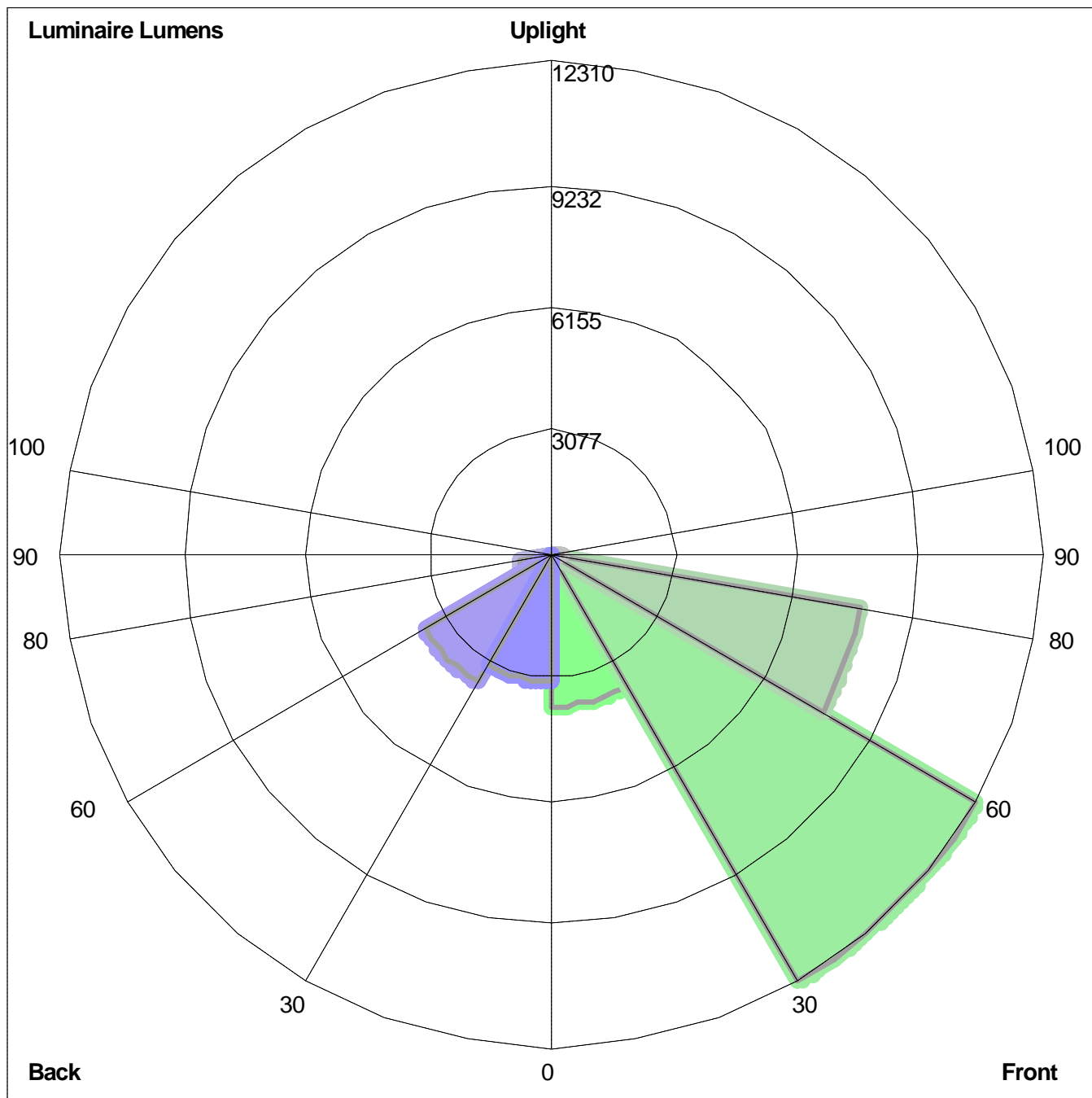


Maximum Candela = 16461 Located At Horizontal Angle = 22.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3785.4, Medium=12309.7, High=7796.4, Very High=188.8
Back: Low=3174.8, Medium=3684.5, High=839.6, Very High=28.8
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4