



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-3-LED-SS-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5003
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]01/09/14
[TEST DATE]01/09/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-3-LED-SS-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20181
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	186.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12129
Maximum Candela Angle	50H 55V
Maximum Candela (<90 Degrees Vertical)	12129
Maximum Candela Angle (<90 Degrees Vertical)	50H 55V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1250 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2550.8	N.A.	12.6
FM - Front-Medium (30-60)	9592.1	N.A.	47.5
FH - Front-High (60-80)	4175.7	N.A.	20.7
FVH - Front-Very High (80-90)	71.2	N.A.	0.4
BL - Back-Low (0-30)	1285.0	N.A.	6.4
BM - Back-Medium (30-60)	1855.8	N.A.	9.2
BH - Back-High (60-80)	635.1	N.A.	3.1
BVH - Back-Very High (80-90)	15.7	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	20181.4	N.A.	100.0
BUG Rating	B3-U0-G2		

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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>50</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	3782	3782	3782	3782	3782	3782	3782	3782	3782	3782
2.5	3791	3795	3805	3808	3817	3831	3839	3859	3865	3860
5.0	3737	3736	3772	3839	3938	4059	4115	4199	4302	4316
7.5	3764	3764	3833	3949	4130	4331	4425	4561	4780	4889
10.0	4027	4027	4150	4372	4595	4845	4944	5068	5299	5469
12.5	4448	4479	4682	5006	5237	5501	5582	5657	5731	5798
15.0	4832	4878	5266	5784	6087	6110	6039	5963	5886	5867
17.5	5173	5238	5826	6553	6894	6631	6371	6155	5943	5852
20.0	5351	5458	6389	7404	7644	7096	6677	6275	5872	5753
22.5	5211	5354	6597	7860	8166	7482	6955	6413	5744	5606
25.0	5088	5279	6707	8029	8311	7789	7269	6668	5661	5397
27.5	5009	5264	6939	8127	8270	7965	7616	7028	5770	5222
30.0	4923	5259	7187	8223	8229	8048	7859	7431	6070	5233
32.5	4854	5257	7490	8294	8122	8028	7998	7780	6481	5380
35.0	4952	5405	7770	8366	7975	7922	7977	7987	7023	5653
37.5	5083	5676	8056	8257	8003	7847	7930	8083	7669	6110
40.0	5376	6089	8291	8216	8284	7990	7992	8168	8365	6752
42.5	6054	6787	8618	8407	8739	8495	8285	8430	9104	7672
45.0	6739	7507	9072	8770	9187	9325	8933	8879	9773	8550
47.5	7225	8066	9296	9075	9572	10325	9854	9476	10193	9057
50.0	7129	8013	9204	9294	9902	11148	10865	10317	10380	9736
52.5	6289	7218	8332	8996	10264	11717	11690	11173	10634	10054
55.0	5959	6798	7503	8050	10082	11948	12129	11876	10547	9911
57.5	4440	5090	5974	7242	9243	11705	11995	11850	10376	9788
60.0	3882	4369	4713	5605	8312	10638	11237	11376	10060	9469
62.5	2233	2622	3309	4751	6593	9324	10080	10321	9946	9441
65.0	1689	1816	1938	2917	5666	7474	8880	9516	9965	9537
67.5	820	804	1269	2199	3353	6590	7534	8884	9339	8363
70.0	155	182	244	785	2584	5214	6961	7526	7611	7449
72.5	104	122	185	369	1547	4458	5013	6014	6203	5764
75.0	74	74	138	277	1304	3061	3779	3965	4197	4186
77.5	45	50	89	148	786	1884	2221	2457	2636	2757
80.0	28	31	47	82	353	762	959	1065	1250	1067
82.5	21	20	25	36	98	233	267	305	357	295
85.0	9	10	12	14	20	36	52	78	85	59
87.5	5	5	6	7	9	10	11	13	12	11
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<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>
0.0	3782	3782	3782	3782	3782	3782	3782	3782	3782	3782
2.5	3865	3863	3855	3829	3801	3762	3741	3697	3667	3652
5.0	4317	4327	4291	4221	4119	3973	3798	3585	3399	3269
7.5	4915	4909	4867	4746	4493	4122	3765	3430	3173	2977
10.0	5532	5507	5455	5230	4735	4286	3993	3657	3333	2998
12.5	5883	5819	5760	5416	4871	4568	4295	3826	3275	2753
15.0	5986	5892	5786	5290	4899	4731	4288	3572	2875	2287
17.5	5953	5834	5660	5038	4816	4503	3856	2993	2292	1701
20.0	5821	5695	5462	4853	4631	3949	3062	2149	1560	1197
22.5	5661	5534	5292	4761	4358	3389	2398	1407	1116	970
25.0	5469	5331	5143	4697	4022	2723	1587	1074	1010	901
27.5	5291	5143	5048	4649	3594	2016	1135	1024	967	857

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CANDELA TABULATION - (Cont.)

30.0	5189	5049	4991	4559	3115	1507	1044	1002	922	817
32.5	5259	5097	5025	4472	2620	1194	1035	956	875	774
35.0	5456	5307	5174	4370	2165	1109	1008	895	828	755
37.5	5714	5651	5470	4264	1797	1117	937	799	789	764
40.0	6093	6034	5848	4121	1570	1078	883	715	732	746
42.5	6612	6547	6262	3920	1494	1022	807	683	655	676
45.0	7071	6866	6616	3687	1399	989	714	638	563	501
47.5	7260	7067	6793	3281	1346	939	671	529	441	438
50.0	7316	7211	6958	2858	1300	843	627	423	348	338
52.5	7024	7001	6886	2501	1210	816	513	381	246	188
55.0	6622	6748	6727	2237	1054	904	431	306	188	156
57.5	6171	6417	6350	2115	910	769	399	222	164	133
60.0	5916	6163	6163	1893	820	589	298	200	142	122
62.5	5941	6144	6145	1529	713	378	246	180	134	116
65.0	5942	5914	5927	1315	549	260	231	186	132	106
67.5	5331	5144	5008	954	399	246	218	175	116	68
70.0	4830	4452	4035	651	281	234	209	116	80	60
72.5	3741	3309	2737	411	170	202	160	86	56	48
75.0	2939	2414	1718	273	121	140	127	72	51	53
77.5	1980	1490	837	120	105	123	98	56	54	51
80.0	777	551	302	65	79	80	64	42	38	37
82.5	227	181	106	36	55	44	38	23	22	21
85.0	45	39	25	19	31	28	15	12	12	11
87.5	9	9	9	10	18	11	11	10	9	7
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

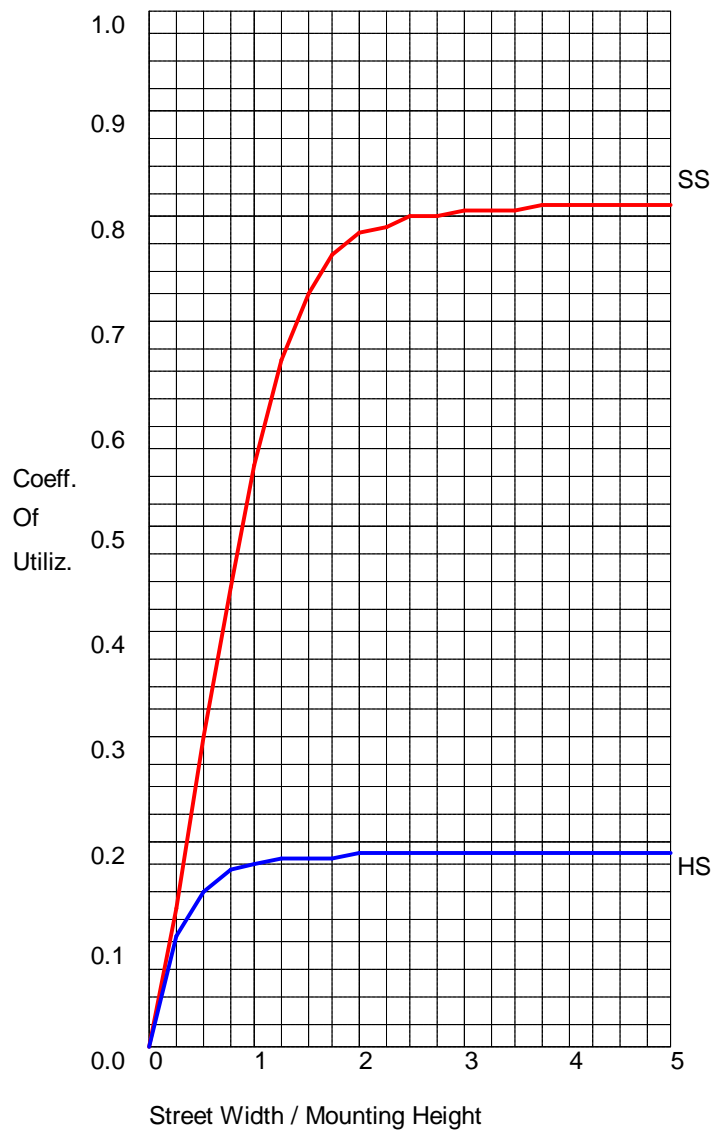
	175	180
0.0	3782	3782
2.5	3642	3649
5.0	3217	3217
7.5	2856	2856
10.0	2773	2760
12.5	2397	2387
15.0	1887	1856
17.5	1313	1274
20.0	914	846
22.5	768	725
25.0	706	664
27.5	645	595
30.0	594	540
32.5	554	495
35.0	542	475
37.5	547	476
40.0	544	472
42.5	462	403
45.0	371	327
47.5	331	288
50.0	223	178
52.5	154	128
55.0	132	109
57.5	115	87
60.0	106	80
62.5	109	83
65.0	98	78

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CANDELA TABULATION - (Cont.)

67.5	76	63
70.0	49	52
72.5	40	38
75.0	43	38
77.5	43	35
80.0	30	26
82.5	18	15
85.0	10	9
87.5	6	6
90.0	0	0

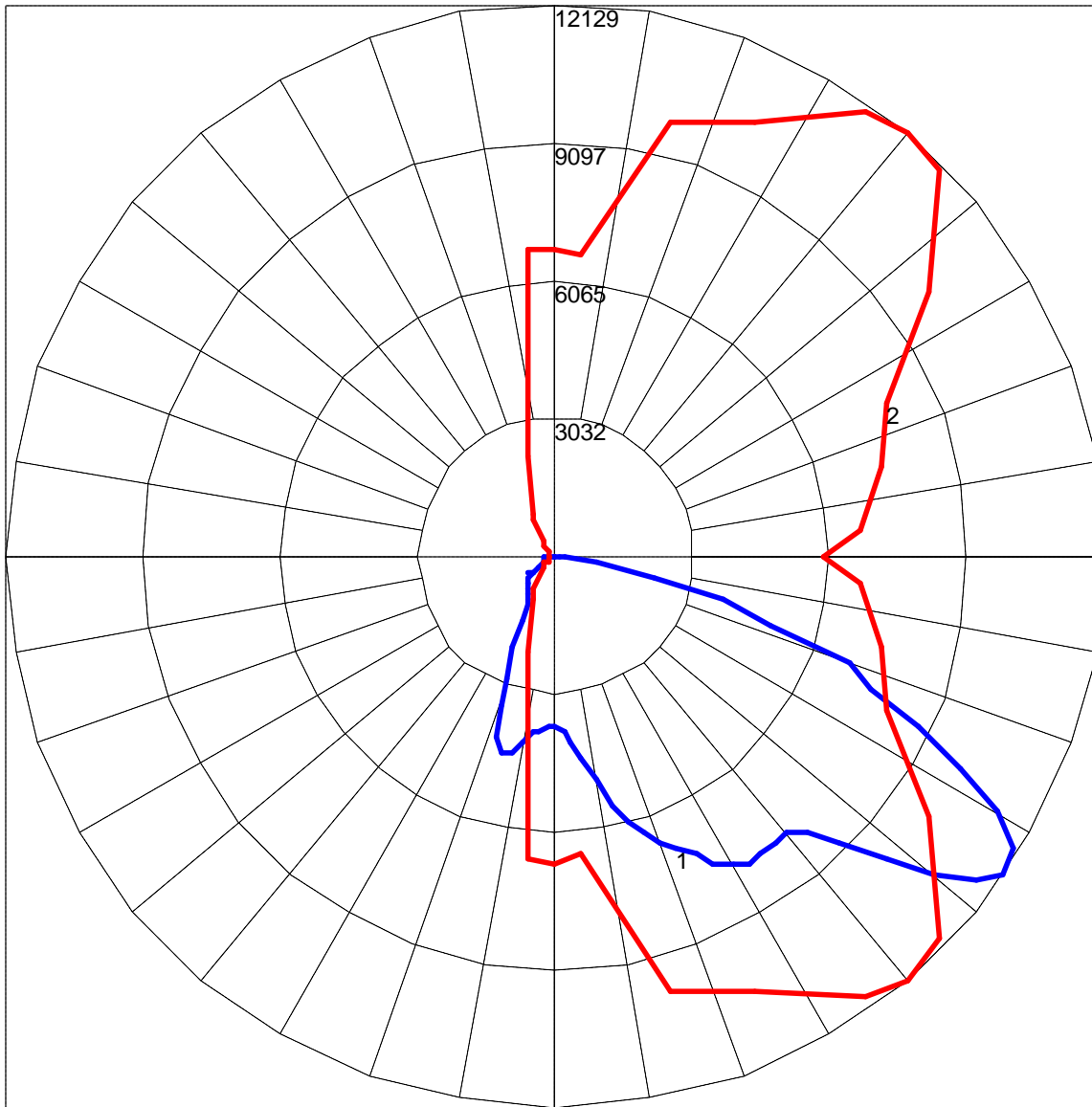
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

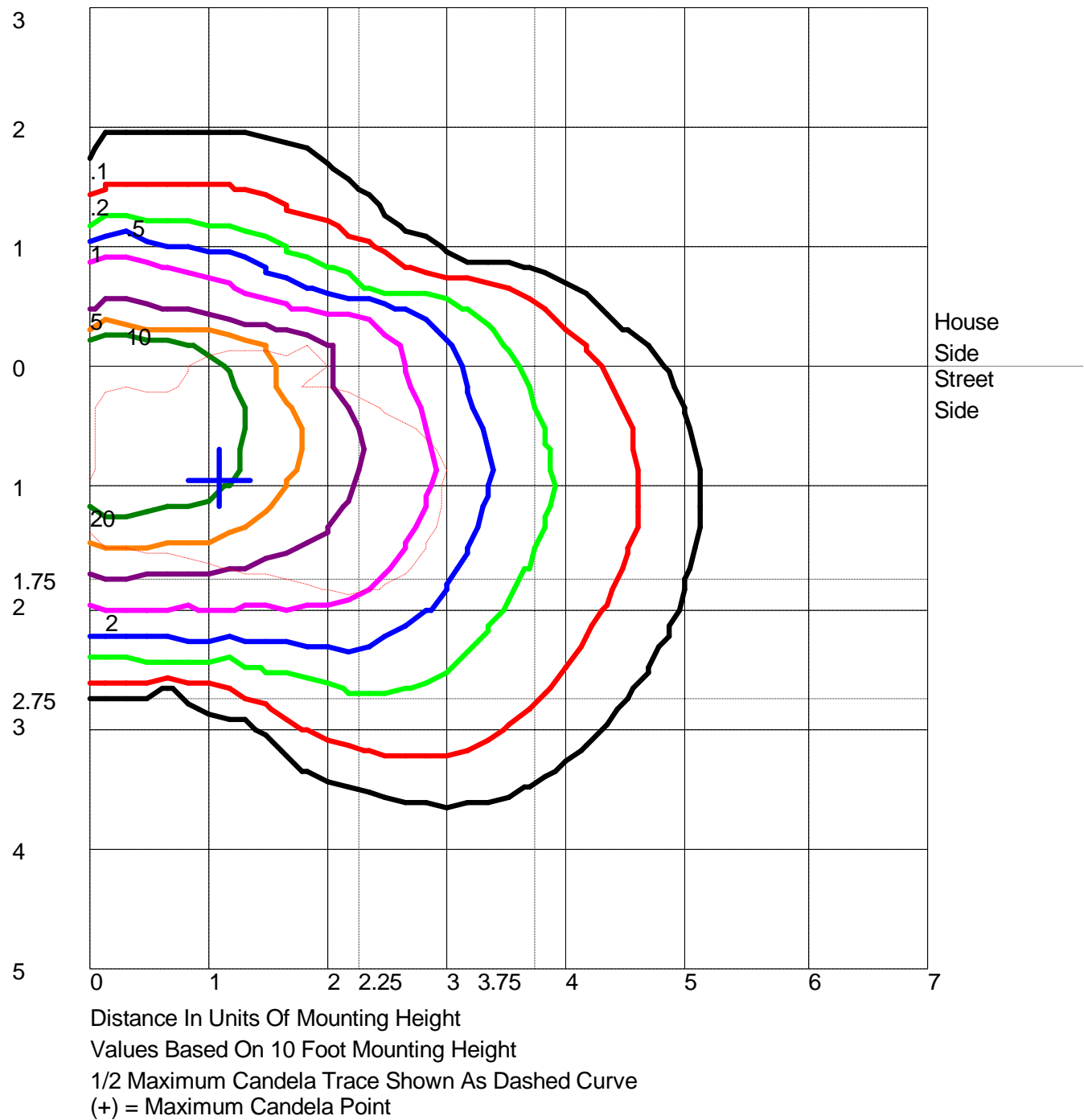
	Lumens	Percent Of Luminaire
Downward Street Side	16389.9	81.2
Downward House Side	3791.6	18.8
Downward Total	20181.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20181.5	100.0

POLAR GRAPH

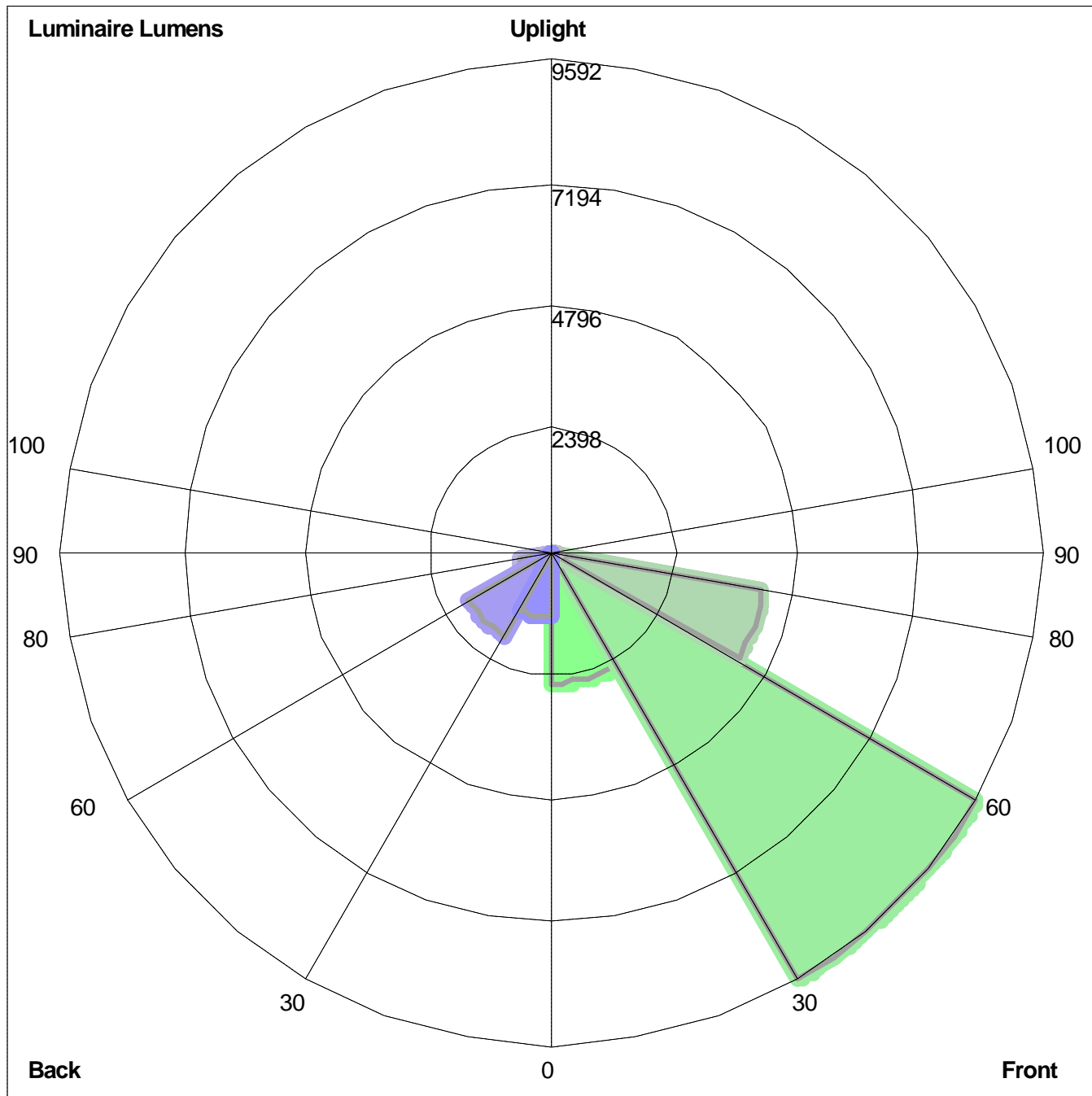


Maximum Candela = 12129 Located At Horizontal Angle = 50, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2550.8, Medium=9592.1, High=4175.7, Very High=71.2
Back: Low= 1285.0, Medium=1855.8, High=635.1, Very High=15.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2