



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5333
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/25/14
[TEST DATE]03/25/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-3-LED-SS-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16394
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	189
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9409
Maximum Candela Angle	52.5H 55V
Maximum Candela (<90 Degrees Vertical)	9409
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 55V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1451 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2186.3	N.A.	13.3
FM - Front-Medium (30-60)	7395.2	N.A.	45.1
FH - Front-High (60-80)	3310.7	N.A.	20.2
FVH - Front-Very High (80-90)	92.9	N.A.	0.6
BL - Back-Low (0-30)	1276.8	N.A.	7.8
BM - Back-Medium (30-60)	1567.4	N.A.	9.6
BH - Back-High (60-80)	548.5	N.A.	3.3
BVH - Back-Very High (80-90)	16.6	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	16394.4	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>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	3164	3164	3164	3164	3164	3164	3164	3164	3164	3164
2.5	3149	3152	3155	3167	3174	3187	3207	3205	3219	3223
5.0	3168	3175	3199	3251	3309	3390	3456	3484	3531	3572
7.5	3193	3205	3274	3404	3579	3763	3923	3949	4054	4118
10.0	3318	3333	3470	3719	3958	4213	4422	4457	4614	4682
12.5	3574	3598	3826	4174	4465	4750	4908	4926	5023	5047
15.0	3921	3979	4296	4734	5056	5217	5279	5278	5282	5229
17.5	4272	4353	4856	5434	5712	5637	5520	5473	5349	5203
20.0	4563	4677	5401	6135	6355	6047	5662	5537	5259	5160
22.5	4738	4893	5839	6712	6895	6396	5739	5534	5181	5156
25.0	4647	4850	5990	6946	7117	6567	5831	5605	5032	5006
27.5	4429	4677	5955	6863	6984	6605	5924	5663	4805	4688
30.0	4330	4625	6003	6723	6724	6533	6068	5815	4778	4466
32.5	4244	4603	6061	6634	6552	6440	6213	6029	4955	4414
35.0	4134	4543	6083	6573	6447	6316	6271	6187	5302	4513
37.5	4105	4590	6215	6499	6404	6167	6215	6247	5705	4736
40.0	4265	4850	6478	6559	6591	6162	6176	6228	6160	5141
42.5	4694	5317	6754	6742	6885	6488	6198	6258	6728	5929
45.0	5236	5831	7030	6914	7125	7021	6477	6525	7509	6716
47.5	5675	6226	7173	7004	7338	7721	7123	7061	8034	7106
50.0	5460	6136	7104	7034	7473	8419	8037	7816	8139	7435
52.5	5102	5822	6401	6670	7466	8796	8877	8675	8200	7457
55.0	4690	5325	5904	6034	7121	8832	9409	9185	7916	7131
57.5	3549	4044	4518	5354	6505	8651	9277	9134	7704	7107
60.0	3197	3523	3619	4035	5877	7801	8801	8887	7530	6532
62.5	2341	2632	2842	3448	4552	6878	7843	7871	7145	6585
65.0	1225	1365	1497	2460	3920	5375	6526	6789	7323	6978
67.5	1007	970	1175	1460	2807	4390	5758	6298	7317	6549
70.0	155	167	272	891	1763	4010	5212	5526	6051	6085
72.5	100	113	150	265	1150	3212	4488	4675	5469	5324
75.0	66	79	120	218	860	2477	3381	3641	3993	3849
77.5	46	54	74	141	653	1659	2325	2318	2647	2835
80.0	28	32	46	93	321	890	1182	1261	1451	1281
82.5	15	18	24	36	122	291	438	457	560	441
85.0	6	8	10	11	20	51	99	123	136	128
87.5	0	1	2	3	4	6	11	13	22	10
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	3164	3164	3164	3164	3164	3164	3164	3164	3164	3164
2.5	3227	3227	3217	3206	3190	3168	3146	3113	3085	3072
5.0	3613	3612	3600	3534	3466	3352	3224	3082	2960	2881
7.5	4172	4164	4154	4033	3866	3632	3369	3104	2870	2705
10.0	4712	4696	4677	4509	4202	3856	3544	3232	2934	2681
12.5	5049	5025	4995	4748	4352	4025	3751	3405	3012	2653
15.0	5181	5137	5081	4734	4351	4116	3851	3395	2886	2439
17.5	5123	5074	4982	4561	4245	4042	3676	3073	2536	2138
20.0	5097	5018	4850	4363	4103	3800	3219	2550	2116	1848
22.5	5031	4920	4685	4214	3939	3341	2656	2018	1798	1692
25.0	4836	4721	4512	4137	3742	2845	2107	1705	1702	1673
27.5	4565	4481	4377	4082	3462	2382	1742	1636	1660	1570

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CANDELA TABULATION - (Cont.)

30.0	4390	4332	4301	4011	3069	1928	1594	1594	1526	1336
32.5	4353	4336	4312	3928	2580	1529	1538	1465	1266	1019
35.0	4429	4385	4341	3824	2098	1205	1365	1231	978	760
37.5	4638	4550	4459	3691	1723	1008	1090	912	748	625
40.0	4976	4851	4679	3494	1441	929	847	664	591	544
42.5	5471	5388	5100	3248	1267	862	671	545	498	454
45.0	5822	5768	5423	2983	1232	765	554	461	446	401
47.5	5916	5933	5625	2612	1177	688	505	371	403	337
50.0	5925	6027	5685	2208	1019	618	465	325	278	197
52.5	5621	5795	5447	1890	846	562	429	273	170	129
55.0	5279	5595	5273	1625	696	510	417	208	138	120
57.5	4960	5160	5002	1342	628	457	313	167	120	112
60.0	4546	4768	4848	1104	561	475	211	145	115	101
62.5	4503	4967	4813	939	473	368	191	127	108	94
65.0	4808	5207	4633	833	386	205	185	123	109	80
67.5	4482	4556	4098	658	298	185	165	142	101	58
70.0	4457	4249	3899	541	206	183	158	99	79	53
72.5	3917	3617	3166	417	181	187	136	74	57	47
75.0	2991	2577	2051	249	154	171	112	59	51	46
77.5	2260	1796	1267	133	146	129	91	52	45	32
80.0	1034	812	522	74	112	82	52	33	28	21
82.5	386	310	190	38	48	29	26	14	19	14
85.0	102	90	62	14	9	9	8	7	8	7
87.5	8	8	5	5	6	6	6	4	4	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

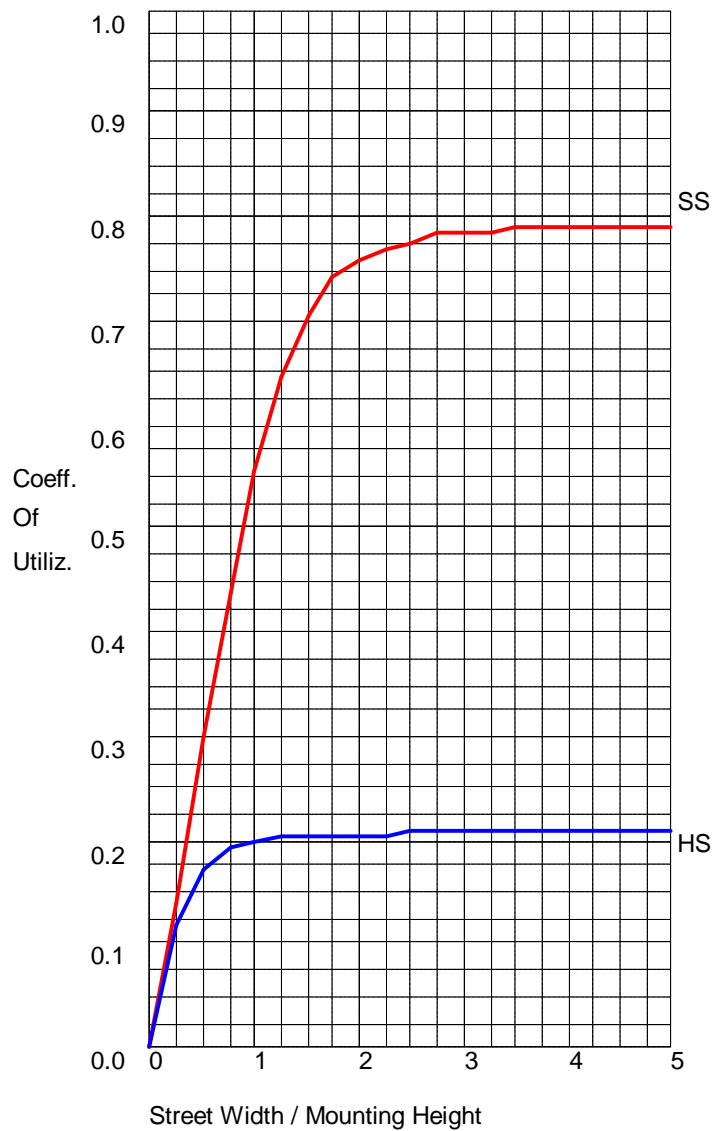
	175.0	180.0
0.0	3164	3164
2.5	3064	3087
5.0	2831	2854
7.5	2603	2615
10.0	2522	2515
12.5	2408	2379
15.0	2151	2114
17.5	1893	1862
20.0	1673	1663
22.5	1600	1599
25.0	1558	1550
27.5	1399	1378
30.0	1118	1084
32.5	774	745
35.0	542	503
37.5	438	396
40.0	370	332
42.5	324	284
45.0	295	254
47.5	218	182
50.0	136	111
52.5	113	94
55.0	109	87
57.5	107	87
60.0	101	83
62.5	90	71
65.0	75	64

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CANDELA TABULATION - (Cont.)

67.5	66	61
70.0	43	44
72.5	36	35
75.0	33	32
77.5	22	20
80.0	16	13
82.5	10	6
85.0	6	1
87.5	1	0
90.0	0	0

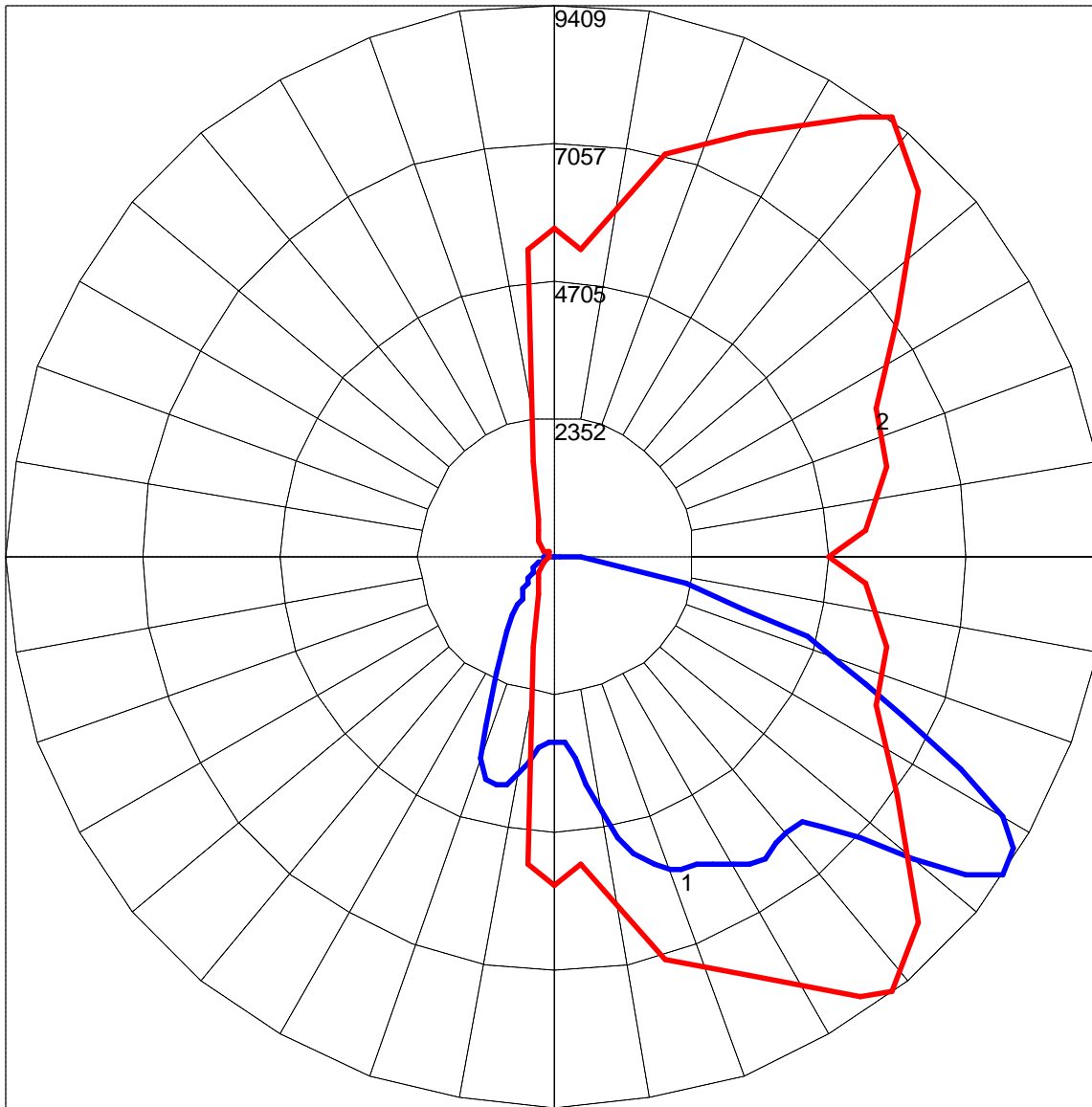
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

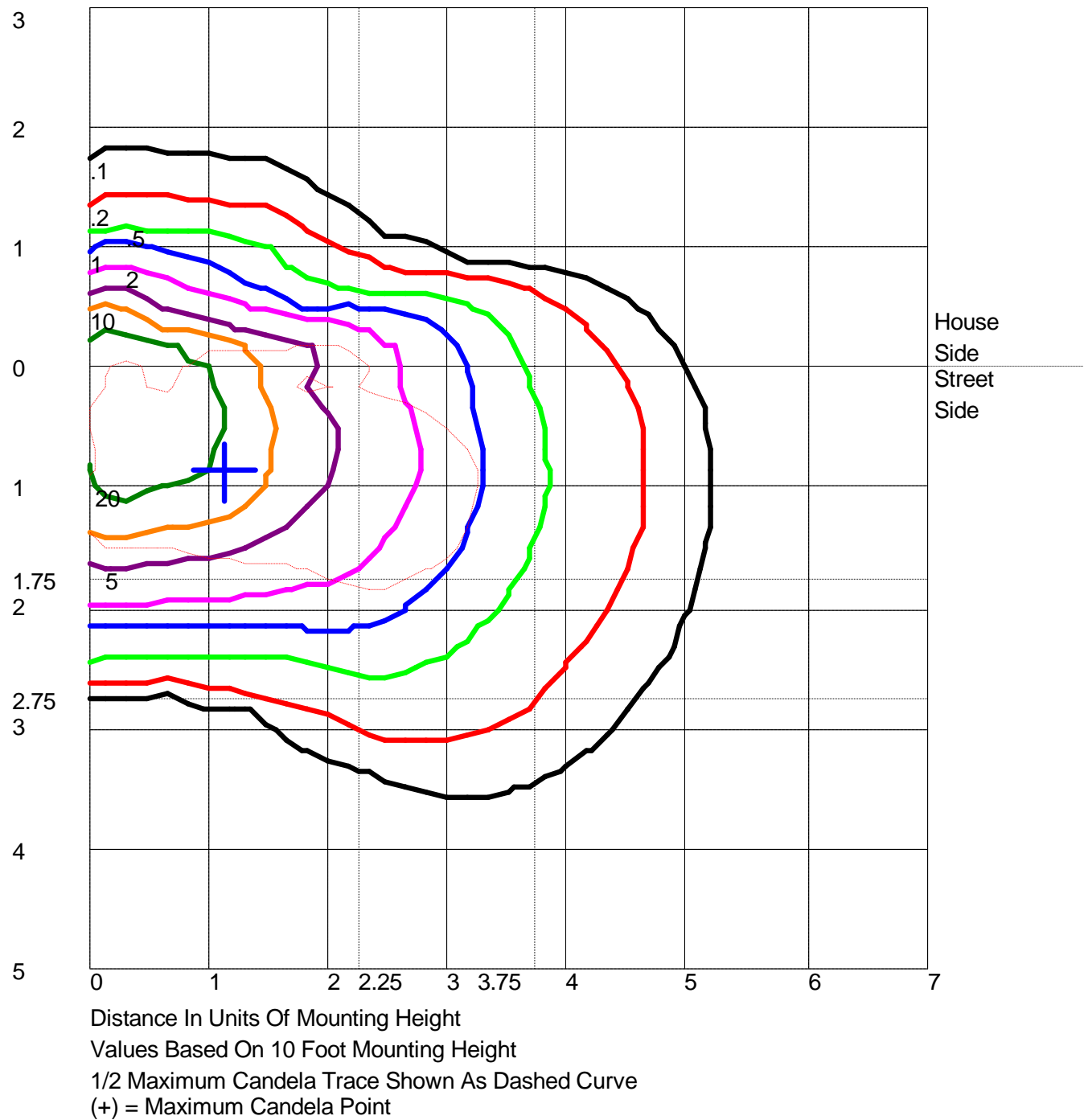
	Lumens	Percent Of Luminaire
Downward Street Side	12985.1	79.2
Downward House Side	3409.2	20.8
Downward Total	16394.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	16394.3	100.0

POLAR GRAPH

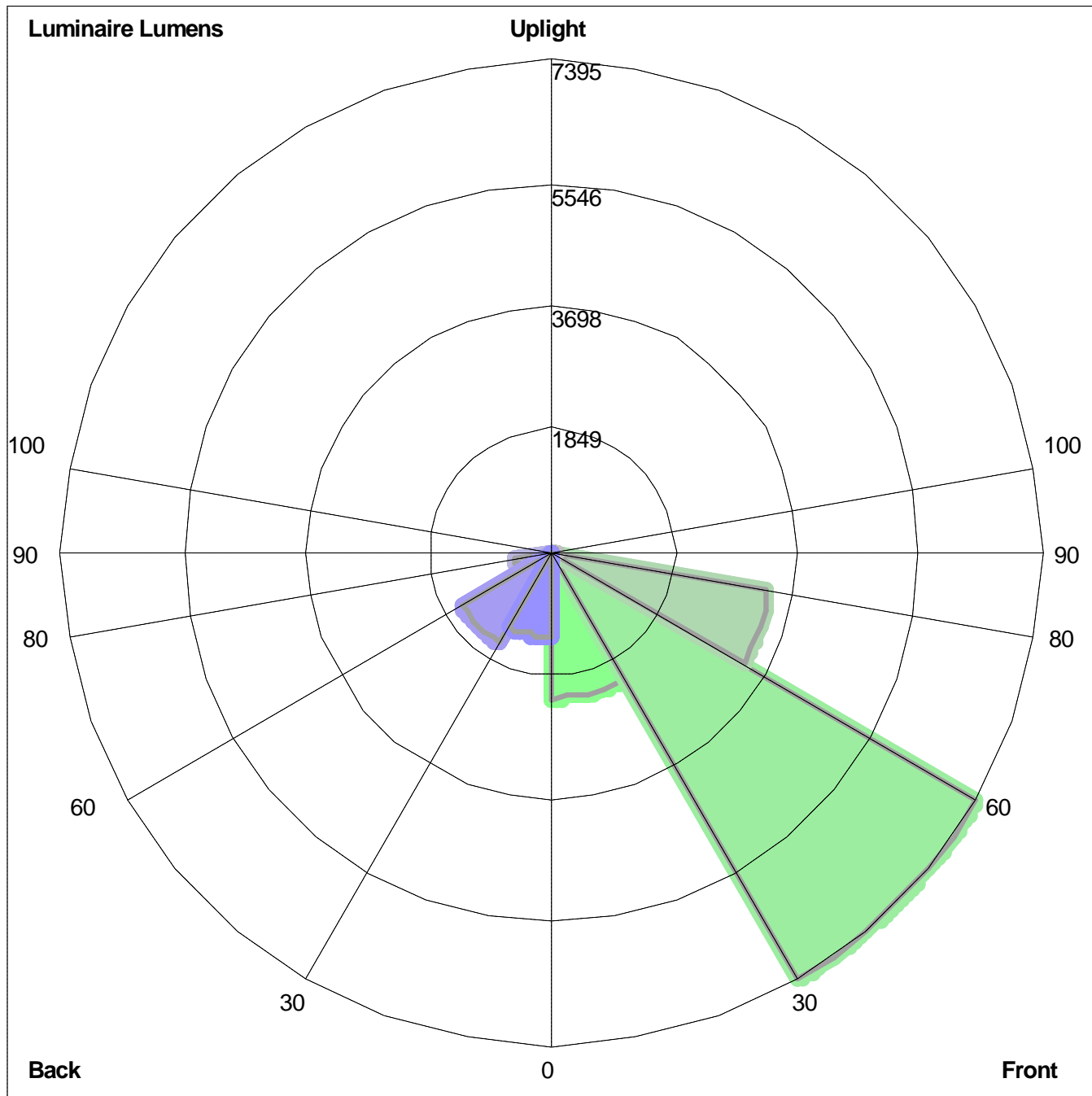


Maximum Candela = 9409 Located At Horizontal Angle = 52.5, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2186.3, Medium=7395.2, High=3310.7, Very High=92.9
Back: Low=1276.8, Medium=1567.4, High=548.5, Very High=16.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2