

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7247
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/11/15
[TEST DATE]09/11/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-3-LED-SS-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]45570
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	45570
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	428.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27916
Maximum Candela Angle	5H 32.5V
Maximum Candela (<90 Degrees Vertical)	27916
Maximum Candela Angle (<90 Degrees Vertical)	5H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2824 (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)	6881.4	N.A.	15.1
FM - Front-Medium (30-60)	17595.1	N.A.	38.6
FH - Front-High (60-80)	9712.3	N.A.	21.3
FVH - Front-Very High (80-90)	160.4	N.A.	0.4
BL - Back-Low (0-30)	5040.5	N.A.	11.1
BM - Back-Medium (30-60)	4187.2	N.A.	9.2
BH - Back-High (60-80)	1958.0	N.A.	4.3
BVH - Back-Very High (80-90)	35.5	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	45570.4	N.A.	100.0
BUG Rating	B5-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>15.0</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	18106	18106	18106	18106	18106	18106	18106	18106	18106	18106
2.5	18417	18408	18489	18304	18367	18408	18336	18346	18202	18148
5.0	18606	18515	18547	18375	18382	18306	18226	18173	17998	17906
7.5	18305	18217	18297	18095	18059	17996	17939	17981	17806	17739
10.0	17667	17579	17650	17415	17548	17697	17792	17700	17405	17158
12.5	17351	17269	17322	16999	17028	17199	17236	16840	16413	16184
15.0	17711	17641	17661	17283	17041	16784	16443	15627	14945	14872
17.5	18726	18665	18662	18224	17669	16675	15571	14283	13567	13407
20.0	20568	20465	20451	19803	18854	17027	15042	13284	12261	11954
22.5	22494	22530	22415	21786	20315	17627	14641	12261	11052	10626
25.0	24411	24465	24395	23717	21867	18548	14611	11520	10249	9869
27.5	26038	26057	26093	25305	22883	18974	14668	11356	9960	9559
30.0	27256	27291	27328	26336	23142	18595	14406	11703	9974	9452
32.5	27810	27856	27916	26433	22313	17574	14300	12161	10177	9365
35.0	27441	27484	27594	25943	20716	16140	14275	12651	10398	9302
37.5	26749	26772	26804	24597	19056	15107	14209	13014	10759	9496
40.0	25624	25583	25734	23069	17172	14189	13981	13326	11367	9947
42.5	24640	24638	24721	21402	15752	13675	13632	13682	12150	10445
45.0	23752	23782	23836	19751	14409	13271	13285	13988	13072	10866
47.5	23102	23235	23244	18537	13430	13020	13123	14069	14041	11197
50.0	22393	22468	22516	17383	12911	12909	13210	14224	15086	11709
52.5	21325	21414	21392	16648	12622	12925	13465	14809	16352	12954
55.0	19969	19936	19839	15714	12251	12890	13946	15603	17944	14600
57.5	18239	18152	17912	14495	11518	12728	14790	16816	19585	16727
60.0	16238	16226	15977	12824	10383	12424	15700	18571	21461	18952
62.5	12573	12294	12178	9932	8966	11723	16419	20057	22997	20275
65.0	7841	7983	7857	6249	6752	10614	16726	21101	22699	19868
67.5	3905	4015	3905	3079	4054	9155	16374	20337	20450	18738
70.0	2437	2521	2514	1793	2464	7385	15119	17767	17972	16526
72.5	870	943	1197	841	2049	6121	13012	15130	14189	12177
75.0	347	386	463	381	1717	5042	10462	11155	9194	7744
77.5	237	232	236	273	1092	3308	6668	6290	4698	3560
80.0	165	157	160	211	448	1718	2824	2622	1644	1319
82.5	95	97	100	206	217	502	736	809	450	333
85.0	56	57	59	80	87	99	123	124	97	87
87.5	25	26	27	33	35	45	52	52	54	53
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	18106	18106	18106	18106	18106	18106	18106	18106	18106	18106
2.5	18196	18198	18070	18043	17941	17839	17796	17856	17757	17737
5.0	17863	17808	17634	17511	17276	16993	16830	16870	16786	16743
7.5	17647	17580	17318	17008	16510	16085	15787	15796	15831	15945
10.0	16987	16878	16536	16037	15347	14904	14852	14960	15288	15685
12.5	15791	15569	15232	14446	14168	14221	14535	14842	15235	15746
15.0	14603	14299	13922	13283	13227	13621	14237	14832	15309	15817
17.5	13147	13032	12599	11979	12192	12960	13885	14689	15147	15490
20.0	11703	11511	11132	10625	11108	12222	13427	14189	14334	14188
22.5	10432	10198	9879	9453	9957	11265	12549	13087	12862	12272
25.0	9709	9573	9237	8768	9141	10187	11195	11151	10368	9451
27.5	9400	9267	8950	8455	8734	9159	9400	8694	7592	6477

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CANDELA TABULATION - (Cont.)

30.0	9336	9168	8804	8303	8480	8180	7472	6196	4925	3948
32.5	9338	9172	8754	8185	8168	7164	5614	4015	2788	2175
35.0	9358	9223	8775	8085	7737	5983	3909	2281	1541	1388
37.5	9584	9328	8777	7978	7171	4699	2569	1198	1002	1145
40.0	9976	9532	8921	8037	6567	3469	1702	754	717	1036
42.5	10254	9813	9107	8159	5931	2411	1254	608	535	861
45.0	10158	9747	9235	8332	5146	1596	1104	539	443	601
47.5	10112	9950	9696	8647	4386	1077	1101	497	396	423
50.0	10768	10747	10490	9124	3675	891	1074	461	367	360
52.5	11998	11955	11617	9844	3103	851	981	425	336	320
55.0	13214	13232	13001	10527	2574	802	870	379	311	286
57.5	14282	14285	14241	10778	2103	742	820	329	292	265
60.0	14987	15204	15751	10645	1698	620	888	299	273	246
62.5	15374	15343	15830	9861	1474	473	869	280	259	234
65.0	14264	14088	14402	8289	1263	402	732	254	244	231
67.5	13065	12914	13441	7032	1023	362	583	222	223	211
70.0	11308	11063	11590	5560	747	332	470	205	206	194
72.5	7739	7495	8112	3674	555	310	390	184	196	176
75.0	4660	4447	4764	1798	371	276	338	166	157	157
77.5	2030	1915	1990	709	269	225	264	137	119	137
80.0	763	720	654	260	191	164	143	102	96	113
82.5	216	198	163	126	109	97	92	74	71	62
85.0	77	75	74	70	62	51	47	42	38	32
87.5	44	38	37	28	15	11	8	4	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

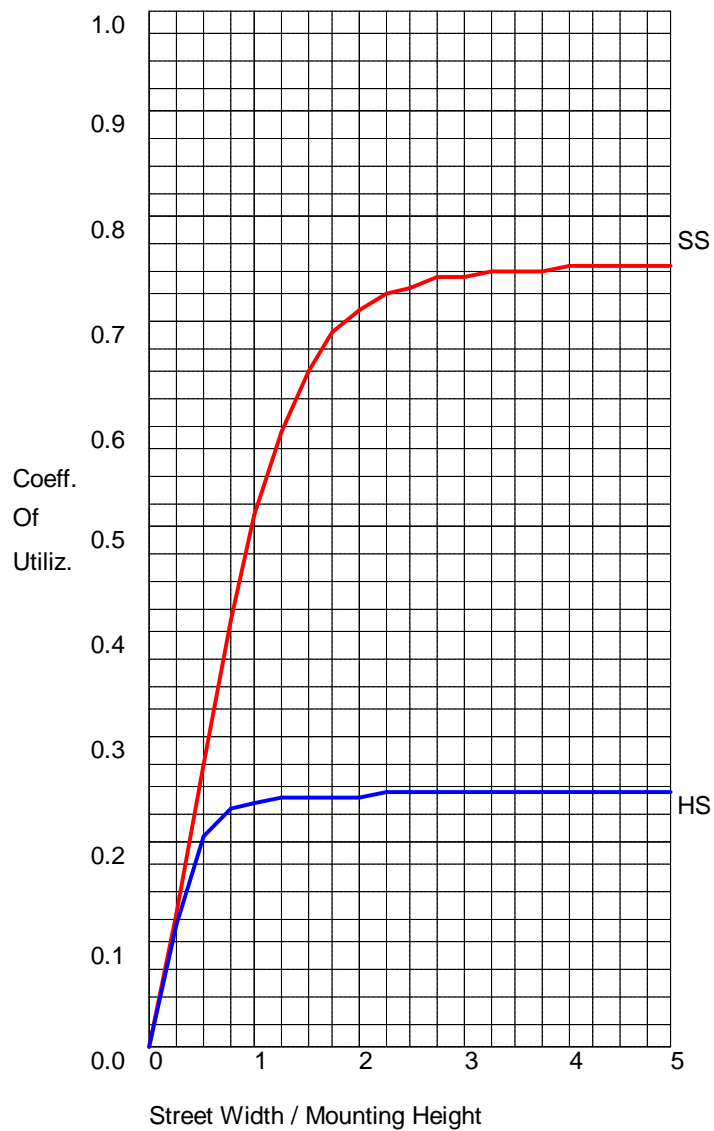
	175.0	180.0
0.0	18106	18106
2.5	17788	17811
5.0	16837	16860
7.5	16087	16124
10.0	15917	15965
12.5	16025	16007
15.0	16128	16117
17.5	15709	15626
20.0	14196	14314
22.5	12096	11983
25.0	9173	9057
27.5	6101	6183
30.0	3788	3920
32.5	2437	2617
35.0	1892	2114
37.5	1576	1808
40.0	1338	1584
42.5	1187	1468
45.0	1045	1339
47.5	817	1026
50.0	560	659
52.5	407	452
55.0	370	417
57.5	373	425
60.0	349	403
62.5	299	370
65.0	271	344

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CANDELA TABULATION - (Cont.)

67.5	248	309
70.0	232	280
72.5	211	250
75.0	190	224
77.5	161	186
80.0	120	136
82.5	63	72
85.0	29	28
87.5	0	0
90.0	0	0

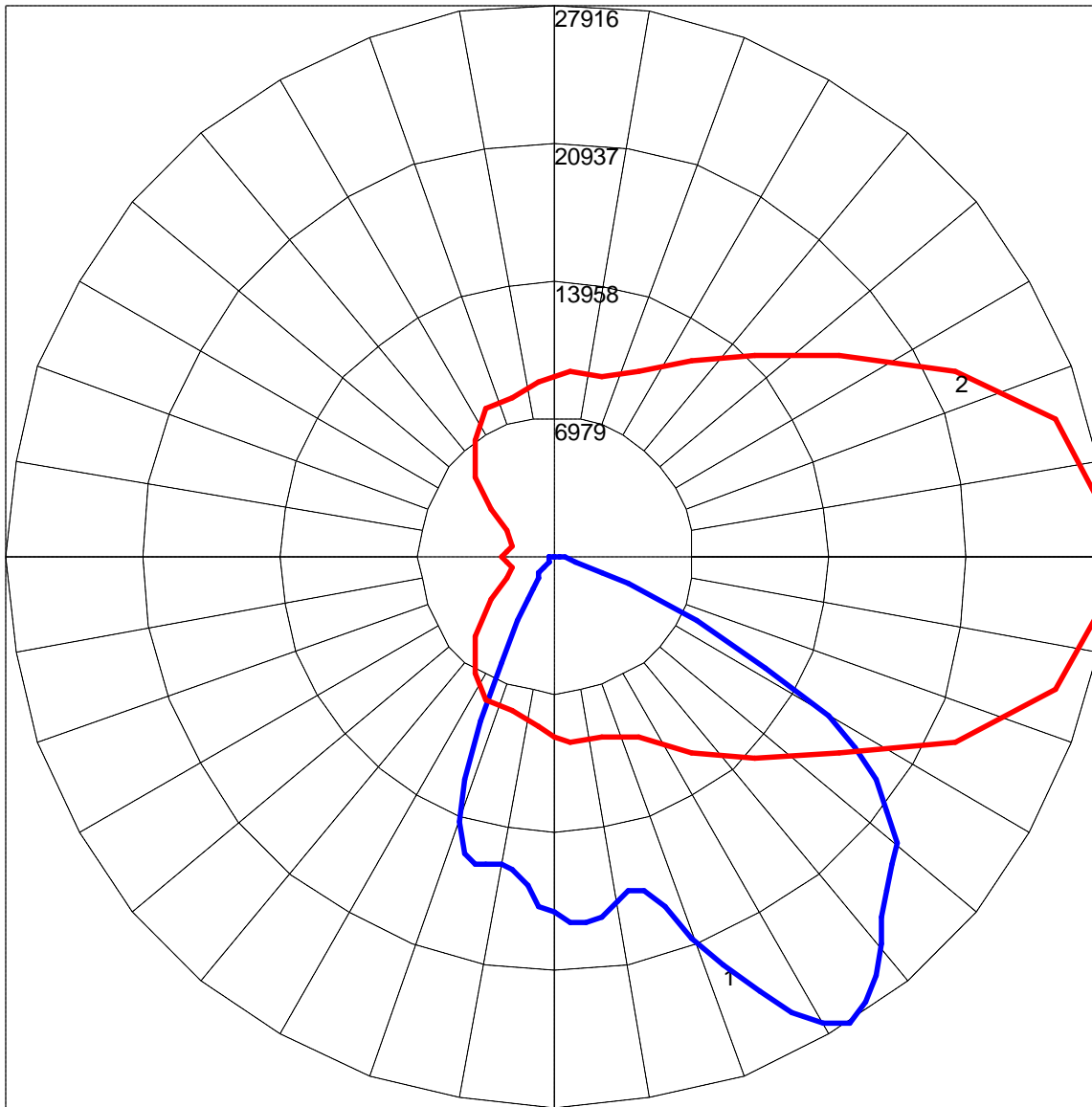
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

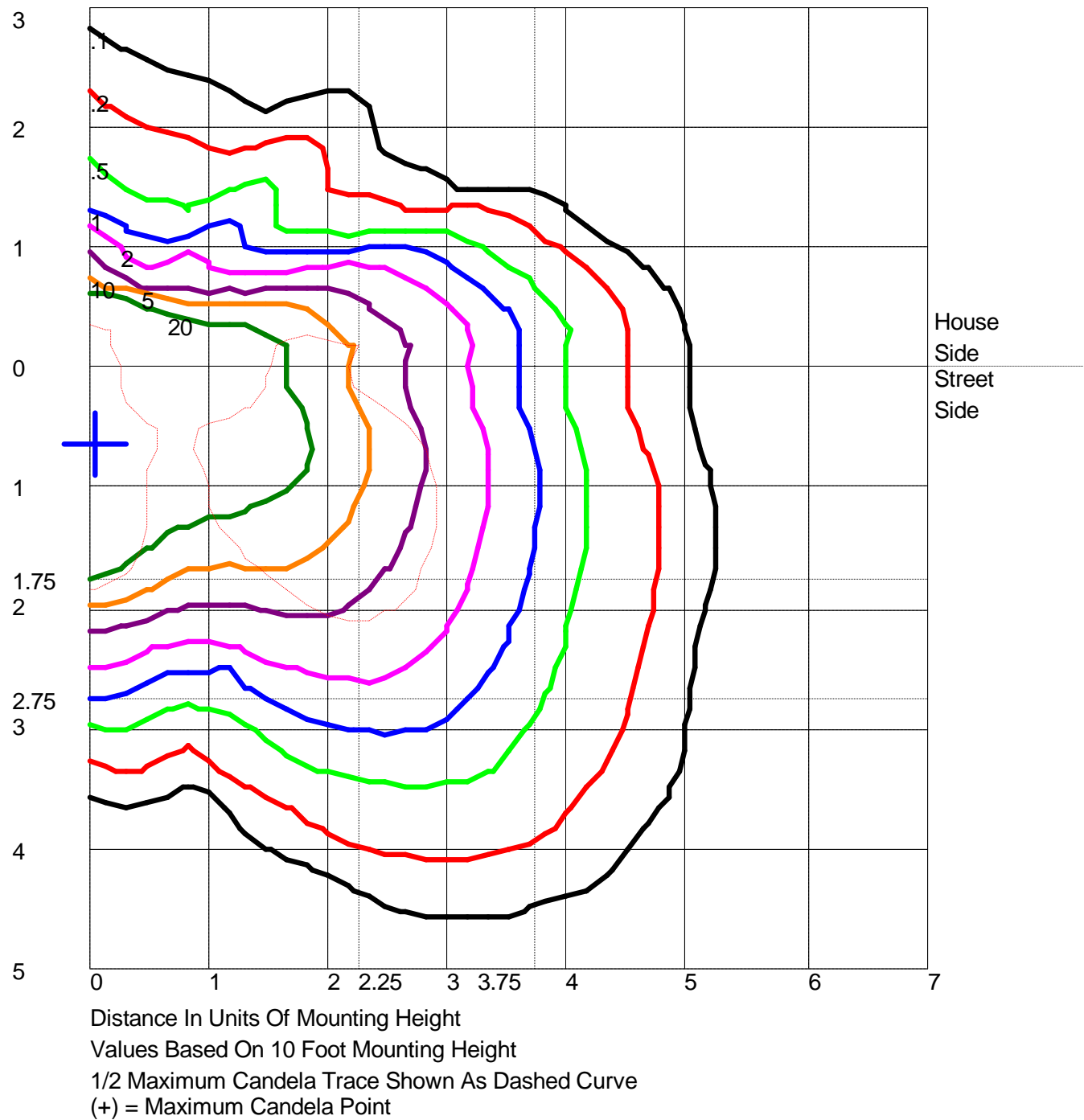
	Lumens	Percent Of Luminaire
Downward Street Side	34349.2	75.4
Downward House Side	11221.1	24.6
Downward Total	45570.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	45570.3	100.0

POLAR GRAPH

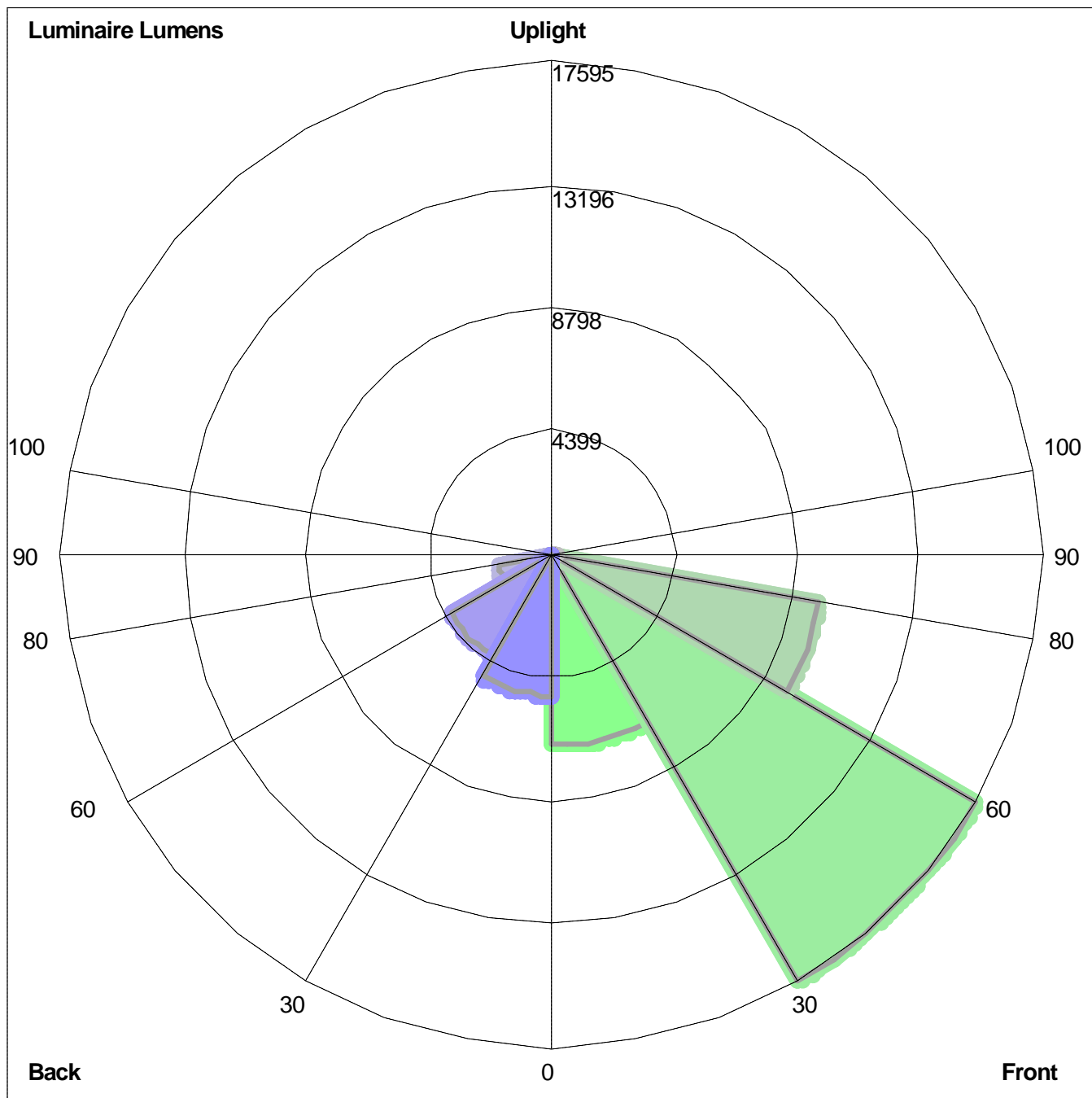


Maximum Candela = 27916 Located At Horizontal Angle = 5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6881.4, Medium=17595.1, High=9712.3, Very High=160.4
Back: Low=5040.5, Medium=4187.2, High= 1958.0, Very High=35.5
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4