



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7594  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]02/25/16  
[TEST DATE]02/25/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XLCL-FTA-LED-SS-NW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]50417  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	50417
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	429.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	41041
Maximum Candela Angle	10H 35V
Maximum Candela (<90 Degrees Vertical)	41041
Maximum Candela Angle (<90 Degrees Vertical)	10H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	999 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	8339.6	N.A.	16.5
FM - Front-Medium (30-60)	28084.2	N.A.	55.7
FH - Front-High (60-80)	4608.8	N.A.	9.1
FVH - Front-Very High (80-90)	103.7	N.A.	0.2
BL - Back-Low (0-30)	3870.6	N.A.	7.7
BM - Back-Medium (30-60)	4089.3	N.A.	8.1
BH - Back-High (60-80)	1285.3	N.A.	2.5
BVH - Back-Very High (80-90)	35.8	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	50417.3	N.A.	100.0
BUG Rating	B4-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>0</u></b>	<b><u>5</u></b>	<b><u>10</u></b>	<b><u>15</u></b>	<b><u>25</u></b>	<b><u>35</u></b>	<b><u>45</u></b>	<b><u>55</u></b>	<b><u>65</u></b>	<b><u>75</u></b>
<b>0.0</b>	14941	14941	14941	14941	14941	14941	14941	14941	14941	14941
<b>2.5</b>	15553	15457	15536	15367	15300	15304	15118	15159	15240	15167
<b>5.0</b>	15899	15864	15887	15758	15816	15688	15426	15505	15539	15313
<b>7.5</b>	16486	16470	16474	16353	16406	16256	16023	16167	16210	15977
<b>10.0</b>	17178	17220	17221	17066	17156	17141	16924	17032	17011	16564
<b>12.5</b>	17910	17818	17925	17772	17931	17911	17642	17634	17423	16861
<b>15.0</b>	18646	18694	18752	18657	18813	18507	18025	17948	17569	16957
<b>17.5</b>	19602	19762	19806	19628	19517	18904	18224	17938	17700	17066
<b>20.0</b>	21557	21696	21693	21327	20664	19581	18630	17961	17792	17135
<b>22.5</b>	24173	24314	24294	23717	22517	20890	19338	18110	17762	17194
<b>25.0</b>	27450	27289	27194	26386	24750	22760	20184	18264	17593	17042
<b>27.5</b>	31565	31349	31106	30142	27795	25203	21571	18653	17509	16955
<b>30.0</b>	36563	36372	36102	34867	31856	27943	23193	19400	17441	16785
<b>32.5</b>	40053	40115	39959	39084	36359	31451	25276	20524	17508	16561
<b>35.0</b>	40761	40997	41041	40663	39569	35501	28012	22049	17671	16363
<b>37.5</b>	40523	40750	40761	40488	40212	38288	31581	23692	18080	16048
<b>40.0</b>	39429	39680	39761	39550	39723	38861	34844	25663	18577	15532
<b>42.5</b>	37096	37452	37650	37857	38609	38432	36546	28350	19434	15319
<b>45.0</b>	32981	33140	33480	34336	36456	37443	36473	31145	20447	15139
<b>47.5</b>	27296	27249	27894	29271	32383	35132	35630	32820	21802	14911
<b>50.0</b>	21313	21257	21869	23171	26822	31229	33829	32794	23362	14688
<b>52.5</b>	16392	16678	17144	18027	21054	26068	30951	31723	25133	14469
<b>55.0</b>	13072	13327	13565	14020	15940	20154	26291	29577	26096	14204
<b>57.5</b>	9604	10007	10450	11159	12608	15042	20655	26452	25698	14122
<b>60.0</b>	3349	3670	4229	5484	8858	11701	15239	22134	24334	14334
<b>62.5</b>	1465	1427	1462	1570	3039	8108	11350	17036	21990	14361
<b>65.0</b>	859	866	909	945	1191	2700	8011	11854	18351	13541
<b>67.5</b>	649	670	667	663	696	1007	3171	7898	13261	12381
<b>70.0</b>	678	697	703	708	650	623	937	4322	8664	10607
<b>72.5</b>	481	493	506	551	652	655	601	1209	4962	8214
<b>75.0</b>	497	495	479	432	416	505	646	566	2219	5240
<b>77.5</b>	501	506	518	530	528	437	433	550	621	2551
<b>80.0</b>	333	330	328	329	347	449	511	351	394	909
<b>82.5</b>	251	258	260	260	270	299	321	408	252	262
<b>85.0</b>	109	117	116	122	142	176	204	219	205	95
<b>87.5</b>	35	36	37	39	46	51	61	65	64	44
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>85</u></b>	<b><u>90</u></b>	<b><u>95</u></b>	<b><u>105</u></b>	<b><u>115</u></b>	<b><u>125</u></b>	<b><u>135</u></b>	<b><u>145</u></b>	<b><u>155</u></b>	<b><u>165</u></b>
<b>0.0</b>	14941	14941	14941	14941	14941	14941	14941	14941	14941	14941
<b>2.5</b>	15174	15131	14928	14891	14851	14819	14775	14795	14778	14784
<b>5.0</b>	15228	15127	14950	14884	14808	14733	14645	14640	14606	14606
<b>7.5</b>	15900	15599	15485	15250	14896	14767	14630	14599	14553	14552
<b>10.0</b>	16439	16099	15911	15411	14891	14720	14581	14542	14490	14452
<b>12.5</b>	16508	16084	15833	15159	14688	14565	14435	14224	13793	13108
<b>15.0</b>	16585	16062	15657	14730	14546	14446	13906	12558	10803	9431
<b>17.5</b>	16589	15975	15380	14609	14458	14070	12100	9252	6596	5158
<b>20.0</b>	16572	15891	15209	14485	14337	12866	9144	5353	2822	1646
<b>22.5</b>	16575	15879	15070	14384	13980	10619	5863	2213	1052	817
<b>25.0</b>	16399	15544	14689	14297	13112	7881	2698	991	802	749
<b>27.5</b>	16320	15446	14514	14116	11426	5017	1113	777	726	686

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**CANDELA TABULATION - (Cont.)**

30.0	16085	15196	14307	13822	9330	2539	718	675	667	725
32.5	15917	14969	14096	13412	7061	1076	621	627	738	950
35.0	15254	14369	13802	12752	4875	702	564	712	1028	1412
37.5	14454	13861	13437	11770	2981	620	607	999	1508	1709
40.0	14032	13441	13102	10466	1853	591	804	1459	1771	1813
42.5	13829	13195	12787	8832	1340	609	1162	1713	2006	2078
45.0	13832	13117	12485	7125	1158	737	1571	1858	2242	2452
47.5	13790	12938	12008	5408	1051	998	1790	2168	2542	2818
50.0	13393	12388	11237	3828	928	1434	2032	2547	2859	3006
52.5	12579	11540	10383	2459	881	1764	2385	2896	3012	2958
55.0	11747	10804	9572	1461	1019	1983	2749	3094	2888	2619
57.5	10822	9867	8683	877	1352	2317	3015	2984	2450	2064
60.0	9703	8780	7679	579	1589	2659	3054	2500	1834	1506
62.5	8736	8045	6471	485	1839	2956	2685	1838	1332	1151
65.0	7668	7059	5035	544	2176	2954	2031	1314	1006	824
67.5	6599	5906	3832	685	2554	2484	1430	960	618	502
70.0	5213	4563	2654	888	2673	1798	1030	534	361	346
72.5	4100	3637	1657	1100	2222	1211	555	322	293	276
75.0	2817	2134	859	1212	1446	662	291	243	214	189
77.5	1821	1128	383	1055	779	267	214	158	131	110
80.0	999	530	221	616	257	162	121	90	68	62
82.5	489	250	151	224	120	87	66	60	55	49
85.0	159	89	73	66	55	49	47	45	42	39
87.5	34	29	28	21	21	20	19	15	13	13
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

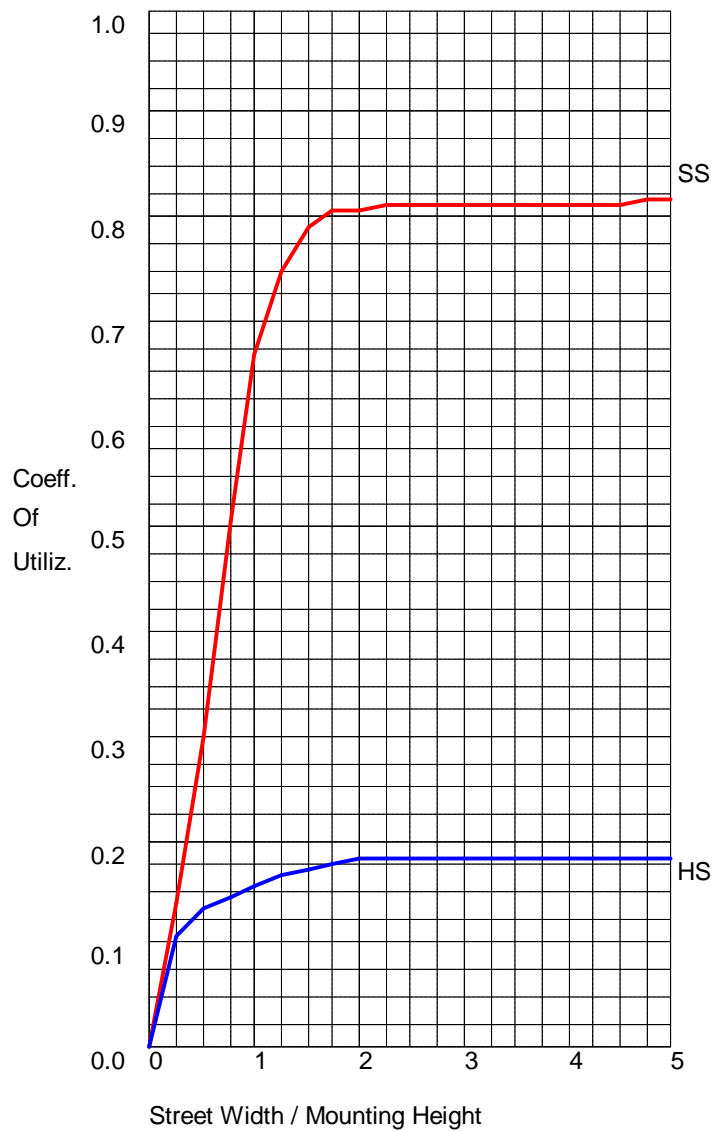
	<b>175</b>	<b>180</b>
0.0	14941	14941
2.5	14779	14879
5.0	14594	14702
7.5	14538	14649
10.0	14381	14479
12.5	12711	12737
15.0	8712	8666
17.5	4313	4213
20.0	1320	1263
22.5	739	742
25.0	693	723
27.5	699	751
30.0	822	869
32.5	1084	1130
35.0	1538	1560
37.5	1702	1711
40.0	1882	1898
42.5	2191	2199
45.0	2564	2563
47.5	2899	2882
50.0	3031	3026
52.5	2885	2887
55.0	2445	2444
57.5	1845	1843
60.0	1352	1312
62.5	1048	1028
65.0	713	693

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	418	406
<b>70.0</b>	322	321
<b>72.5</b>	259	260
<b>75.0</b>	175	175
<b>77.5</b>	95	95
<b>80.0</b>	54	52
<b>82.5</b>	45	44
<b>85.0</b>	37	37
<b>87.5</b>	21	20
<b>90.0</b>	0	0

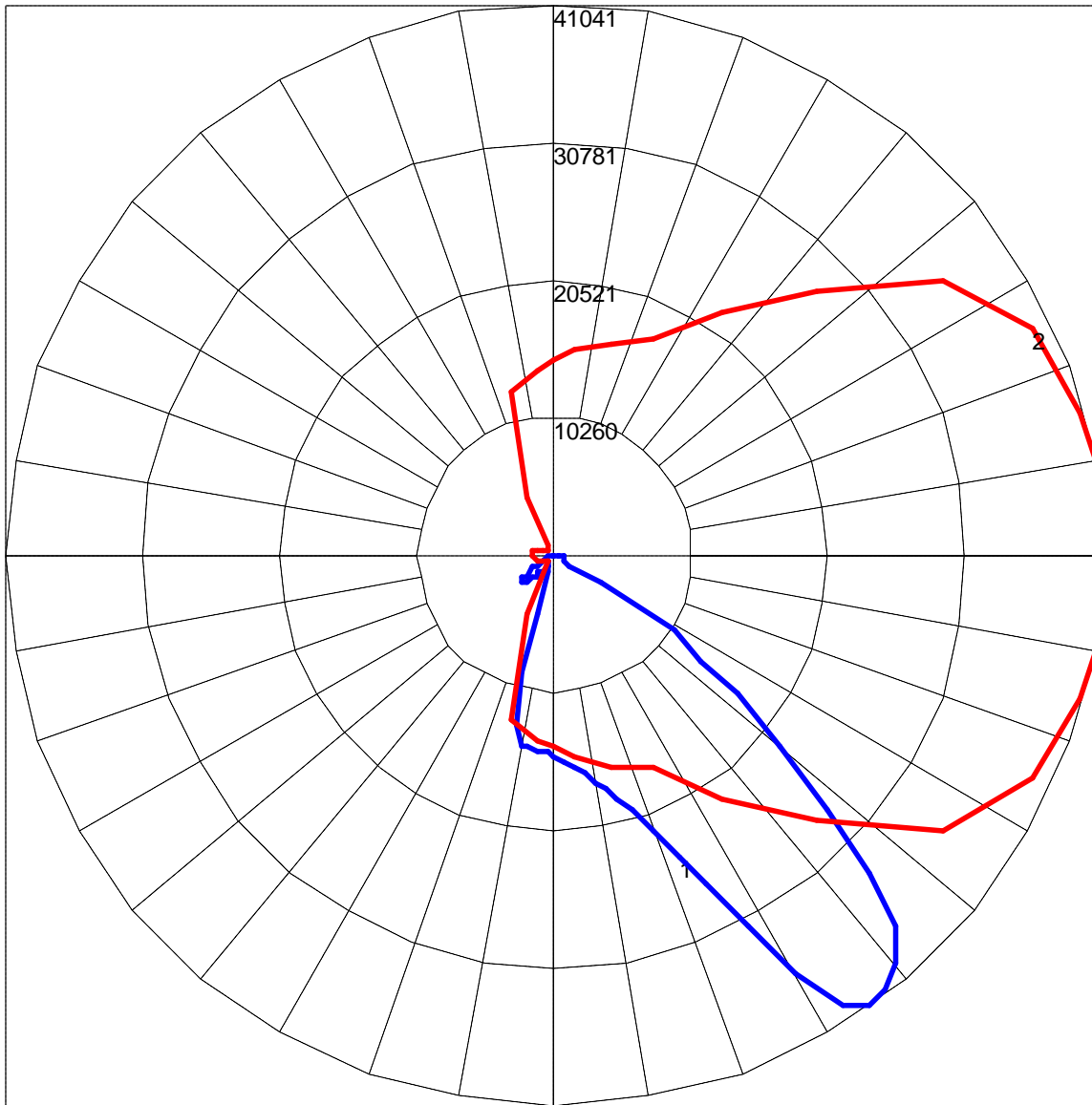
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

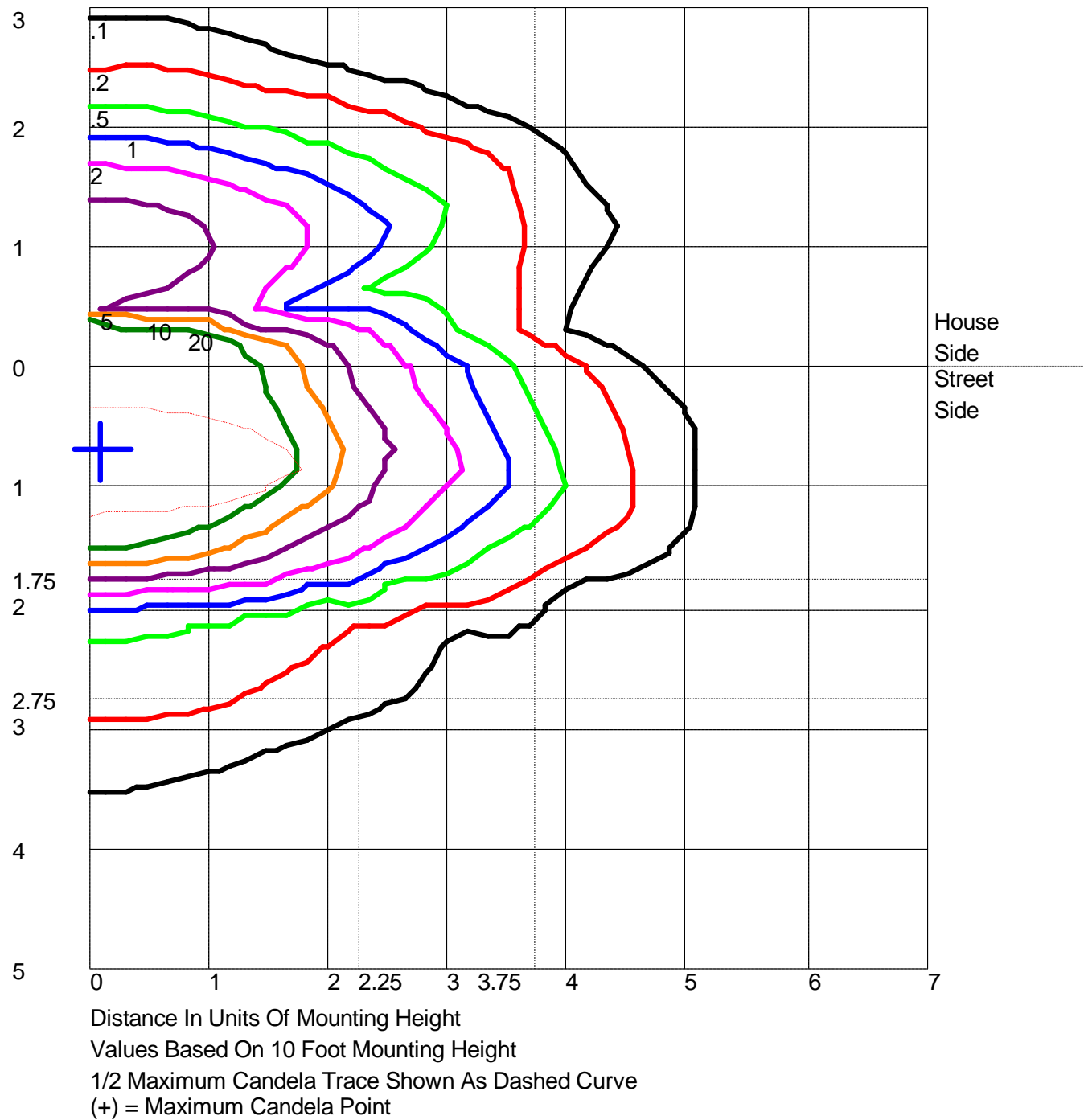
	Lumens	Percent Of Luminaire
Downward Street Side	41136.3	81.6
Downward House Side	9281.1	18.4
Downward Total	50417.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	50417.4	100.0

POLAR GRAPH



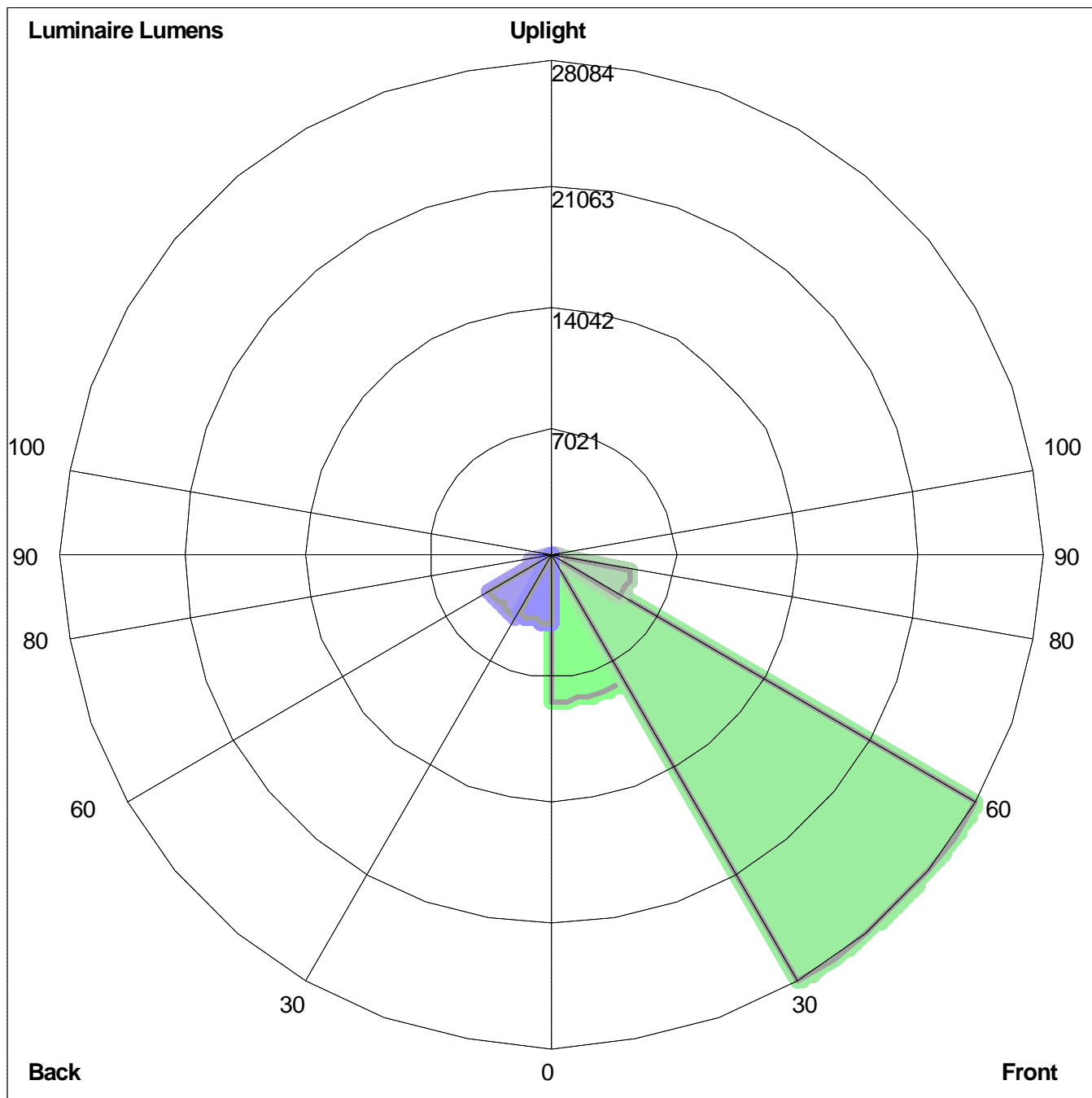
Maximum Candela = 41041 Located At Horizontal Angle = 10, Vertical Angle = 35  
# 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=8339.6, Medium=28084.2, High=4608.8, Very High=103.7  
Back: Low=3870.6, Medium=4089.3, High=1285.3, Very High=35.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3