



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-FT-LED-32L-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-8450  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/12/17  
[TEST DATE]01/12/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]HLN-FT-LED-32L-40  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[\_SEARCH\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	33212
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	309.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20068
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	20068
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6834 (20.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2303.1	N.A.	6.9
FM - Front-Medium (30-60)	10400.7	N.A.	31.3
FH - Front-High (60-80)	11299.4	N.A.	34.0
FVH - Front-Very High (80-90)	651.2	N.A.	2.0
BL - Back-Low (0-30)	2051.9	N.A.	6.2
BM - Back-Medium (30-60)	4709.9	N.A.	14.2
BH - Back-High (60-80)	1671.6	N.A.	5.0
BVH - Back-Very High (80-90)	124.4	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	33212.2	N.A.	100.0
BUG Rating	B3-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>42.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	4891	4891	4891	4891	4891	4891	4891	4891	4891	4891
<b>2.5</b>	4941	4932	4934	4943	4945	4902	4947	4955	4938	4936
<b>5.0</b>	4998	4991	4992	5006	5012	4967	5012	5020	4998	4992
<b>7.5</b>	4988	4985	4993	5025	5050	5025	5077	5102	5085	5076
<b>10.0</b>	4951	4953	4967	5011	5057	5058	5115	5177	5192	5194
<b>12.5</b>	4940	4949	4966	5013	5067	5086	5142	5238	5298	5329
<b>15.0</b>	4971	4987	5011	5056	5112	5134	5189	5304	5404	5476
<b>17.5</b>	5024	5047	5077	5126	5186	5214	5265	5393	5518	5619
<b>20.0</b>	5091	5121	5156	5212	5286	5324	5365	5491	5622	5754
<b>22.5</b>	5199	5239	5267	5326	5396	5452	5479	5602	5728	5886
<b>25.0</b>	5373	5418	5437	5476	5539	5590	5607	5724	5833	5998
<b>27.5</b>	5617	5659	5655	5674	5715	5756	5757	5864	5940	6092
<b>30.0</b>	5883	5932	5913	5917	5942	5972	5951	6024	6049	6166
<b>32.5</b>	6164	6213	6188	6194	6211	6256	6211	6219	6176	6232
<b>35.0</b>	6462	6523	6479	6493	6530	6580	6514	6464	6334	6333
<b>37.5</b>	6783	6848	6812	6835	6889	6958	6900	6787	6579	6478
<b>40.0</b>	7121	7203	7186	7229	7292	7402	7342	7214	6883	6665
<b>42.5</b>	7516	7617	7647	7688	7798	7931	7879	7733	7277	6892
<b>45.0</b>	8017	8141	8188	8246	8414	8591	8547	8380	7744	7186
<b>47.5</b>	8719	8853	8910	9061	9223	9439	9395	9193	8445	7695
<b>50.0</b>	9638	9773	9868	10045	10260	10538	10451	10197	9355	8300
<b>52.5</b>	10711	10909	11118	11371	11641	11825	11727	11574	10262	8797
<b>55.0</b>	11834	11978	12337	12834	13256	13408	13303	12908	11100	9264
<b>57.5</b>	12614	12810	13351	14164	15139	15495	15326	14065	11907	9665
<b>60.0</b>	12956	13197	13929	15526	17019	17295	17040	15456	12619	9951
<b>62.5</b>	12866	13142	14090	16246	18414	18729	18444	16627	13109	9927
<b>65.0</b>	12551	12814	13963	16650	19123	19630	19318	17354	13121	9548
<b>67.5</b>	12253	12500	13772	16695	19357	20068	19774	17318	12491	8786
<b>70.0</b>	11069	11263	12798	16174	19186	19600	19398	16117	11394	7369
<b>72.5</b>	9081	9094	10715	14328	17860	18311	18051	14441	9220	4912
<b>75.0</b>	5767	6110	7800	10787	14906	15617	15423	11354	5855	2565
<b>77.5</b>	2585	2906	4508	6914	10175	11512	11740	7357	3025	1392
<b>80.0</b>	1281	1419	2456	3773	5262	6599	6834	3975	1583	905
<b>82.5</b>	785	879	1622	2424	2846	3303	3369	2035	1025	609
<b>85.0</b>	515	589	1146	1720	1975	1758	1657	910	626	374
<b>87.5</b>	389	446	847	1103	1385	869	611	380	287	210
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	4891	4891	4891	4891	4891	4891	4891	4891	4891	4891
<b>2.5</b>	4925	4918	4923	4904	4893	4891	4872	4847	4822	4820
<b>5.0</b>	4970	4958	4956	4909	4864	4827	4779	4734	4702	4689
<b>7.5</b>	5047	5024	5018	4937	4851	4792	4730	4677	4633	4610
<b>10.0</b>	5150	5119	5103	4978	4861	4782	4699	4644	4611	4599
<b>12.5</b>	5276	5237	5207	5034	4885	4778	4695	4650	4624	4616
<b>15.0</b>	5424	5374	5331	5103	4920	4794	4705	4667	4644	4645
<b>17.5</b>	5583	5519	5457	5173	4953	4809	4717	4682	4671	4672
<b>20.0</b>	5741	5664	5589	5245	4987	4818	4724	4699	4683	4679
<b>22.5</b>	5898	5810	5717	5305	5003	4818	4729	4701	4676	4670
<b>25.0</b>	6035	5946	5833	5352	5007	4808	4715	4679	4651	4646
<b>27.5</b>	6144	6056	5933	5380	4994	4782	4678	4631	4607	4616

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**CANDELA TABULATION - (Cont.)**

30.0	6224	6142	6002	5388	4959	4736	4617	4555	4543	4582
32.5	6280	6207	6061	5371	4899	4661	4531	4460	4469	4554
35.0	6353	6284	6127	5351	4815	4564	4416	4345	4395	4530
37.5	6430	6343	6171	5310	4705	4441	4278	4202	4338	4519
40.0	6506	6380	6186	5216	4556	4286	4114	4043	4286	4573
42.5	6597	6420	6188	5089	4365	4105	3915	3875	4320	4444
45.0	6749	6499	6213	4948	4145	3886	3702	3724	4319	4154
47.5	7041	6660	6290	4817	3878	3658	3477	3618	4120	3766
50.0	7286	6775	6320	4662	3614	3401	3245	3528	3808	3386
52.5	7502	6871	6304	4467	3334	3153	3008	3382	3445	3067
55.0	7697	6944	6256	4258	3043	2901	2793	3167	3055	2767
57.5	7841	6995	6188	4056	2757	2655	2589	2907	2636	2494
60.0	7858	6878	5979	3834	2473	2405	2386	2621	2300	2274
62.5	7620	6463	5407	3551	2195	2165	2168	2287	2005	2068
65.0	7061	5747	4557	3111	1924	1921	1924	2022	1732	1896
67.5	6171	4778	3443	2504	1600	1640	1705	1784	1494	1742
70.0	4671	3404	2264	1780	1299	1351	1487	1549	1279	1580
72.5	2625	1872	1314	1195	1012	1094	1269	1302	1069	1392
75.0	1283	962	733	809	750	840	1015	1027	875	1137
77.5	779	581	476	543	554	627	771	740	597	763
80.0	530	402	341	395	430	474	537	450	364	515
82.5	334	263	234	293	326	297	322	302	231	348
85.0	208	160	153	206	190	170	203	165	118	222
87.5	117	80	84	106	85	90	99	76	53	96
90.0	0	0	0	0	0	0	0	0	0	0

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

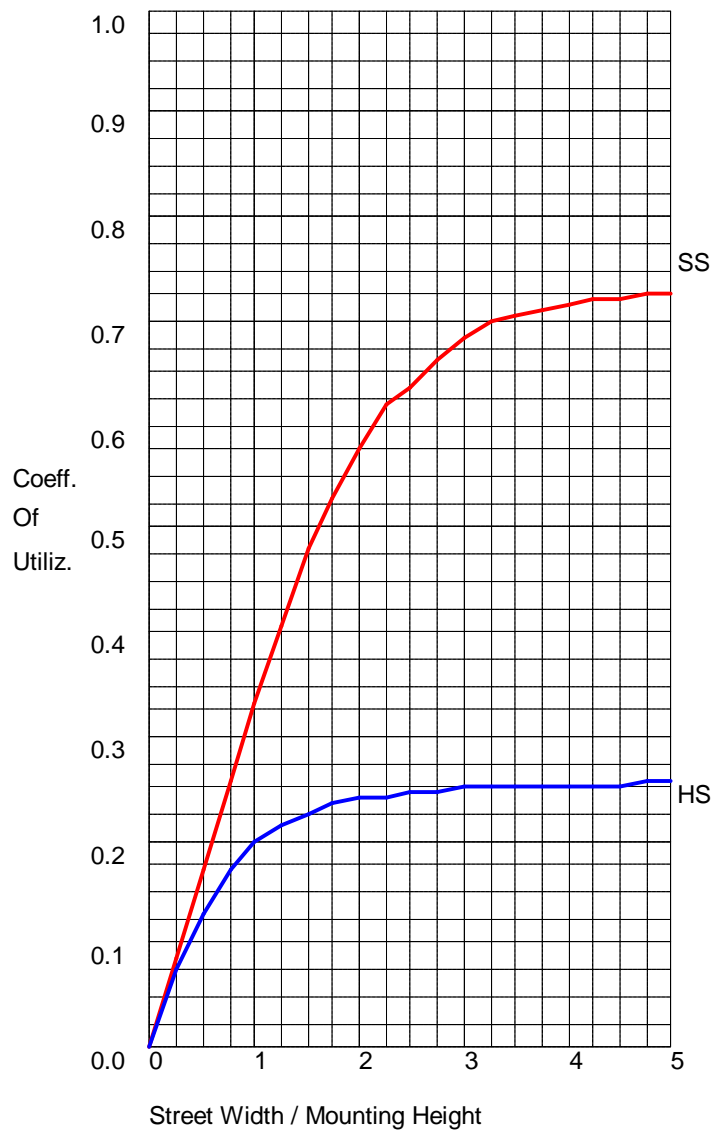
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	4891	4891
2.5	4808	4796
5.0	4673	4661
7.5	4594	4582
10.0	4587	4576
12.5	4605	4593
15.0	4639	4628
17.5	4665	4657
20.0	4670	4664
22.5	4663	4656
25.0	4647	4640
27.5	4625	4621
30.0	4611	4610
32.5	4610	4613
35.0	4601	4607
37.5	4653	4671
40.0	4580	4556
42.5	4264	4202
45.0	3775	3729
47.5	3444	3420
50.0	3165	3134
52.5	2904	2872
55.0	2615	2583
57.5	2352	2311
60.0	2153	2112
62.5	1979	1939
65.0	1837	1795

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1731	1687
<b>70.0</b>	1628	1597
<b>72.5</b>	1539	1520
<b>75.0</b>	1338	1311
<b>77.5</b>	1090	1100
<b>80.0</b>	915	960
<b>82.5</b>	718	784
<b>85.0</b>	489	587
<b>87.5</b>	264	334
<b>90.0</b>	0	0

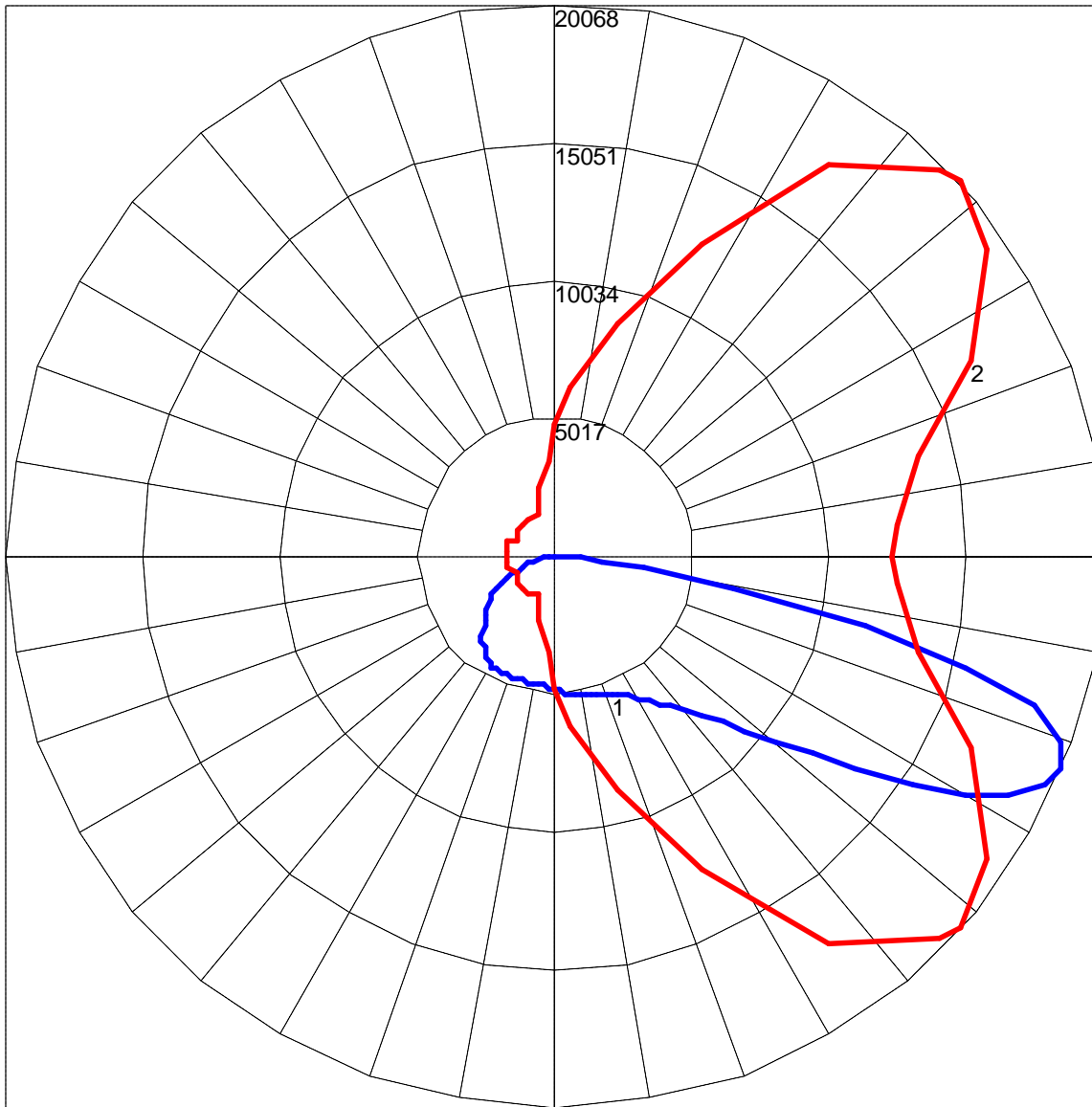
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

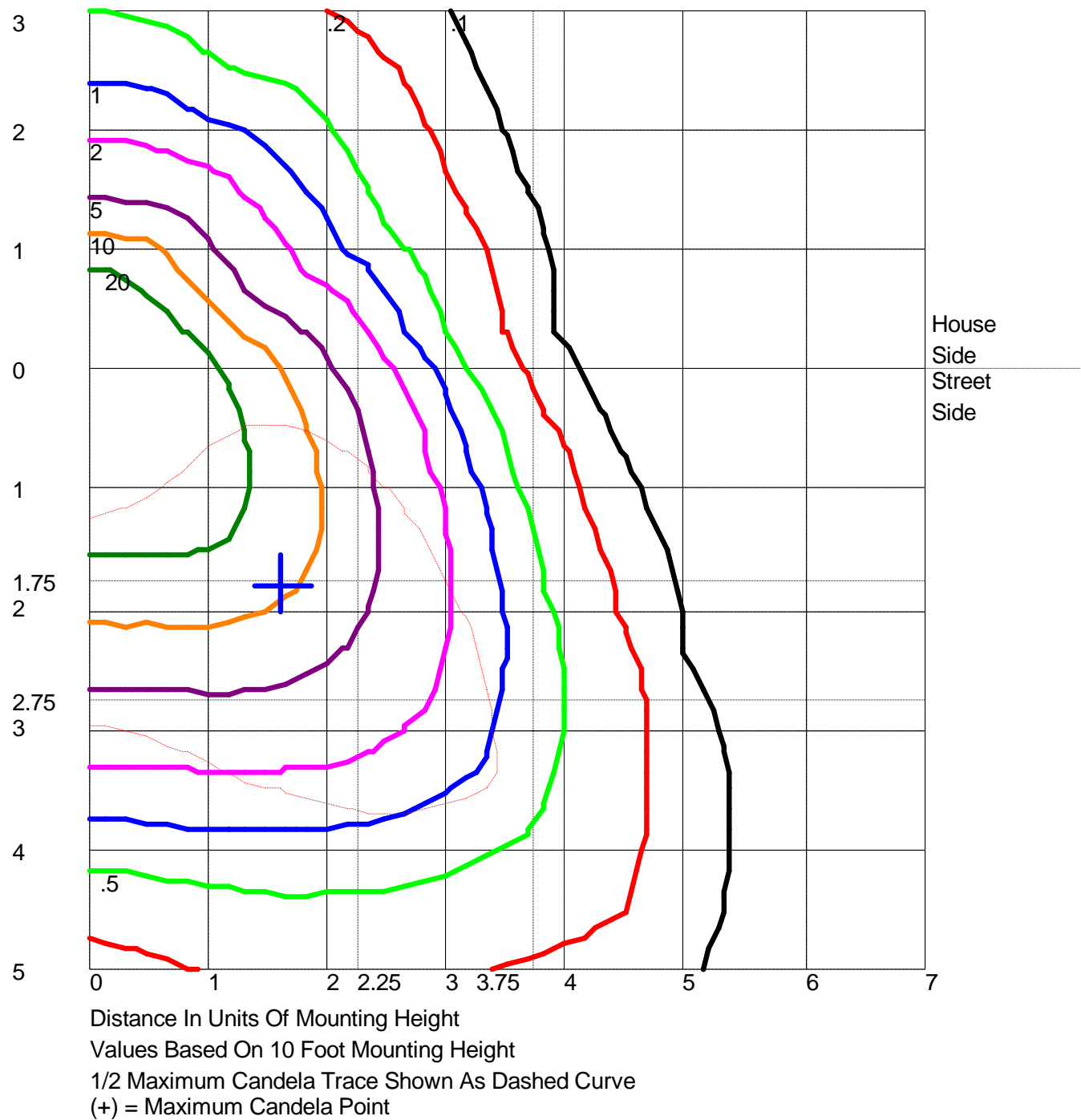
	Lumens	Percent Of Luminaire
Downward Street Side	24654.3	74.2
Downward House Side	8557.8	25.8
Downward Total	33212.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33212.1	100.0

POLAR GRAPH



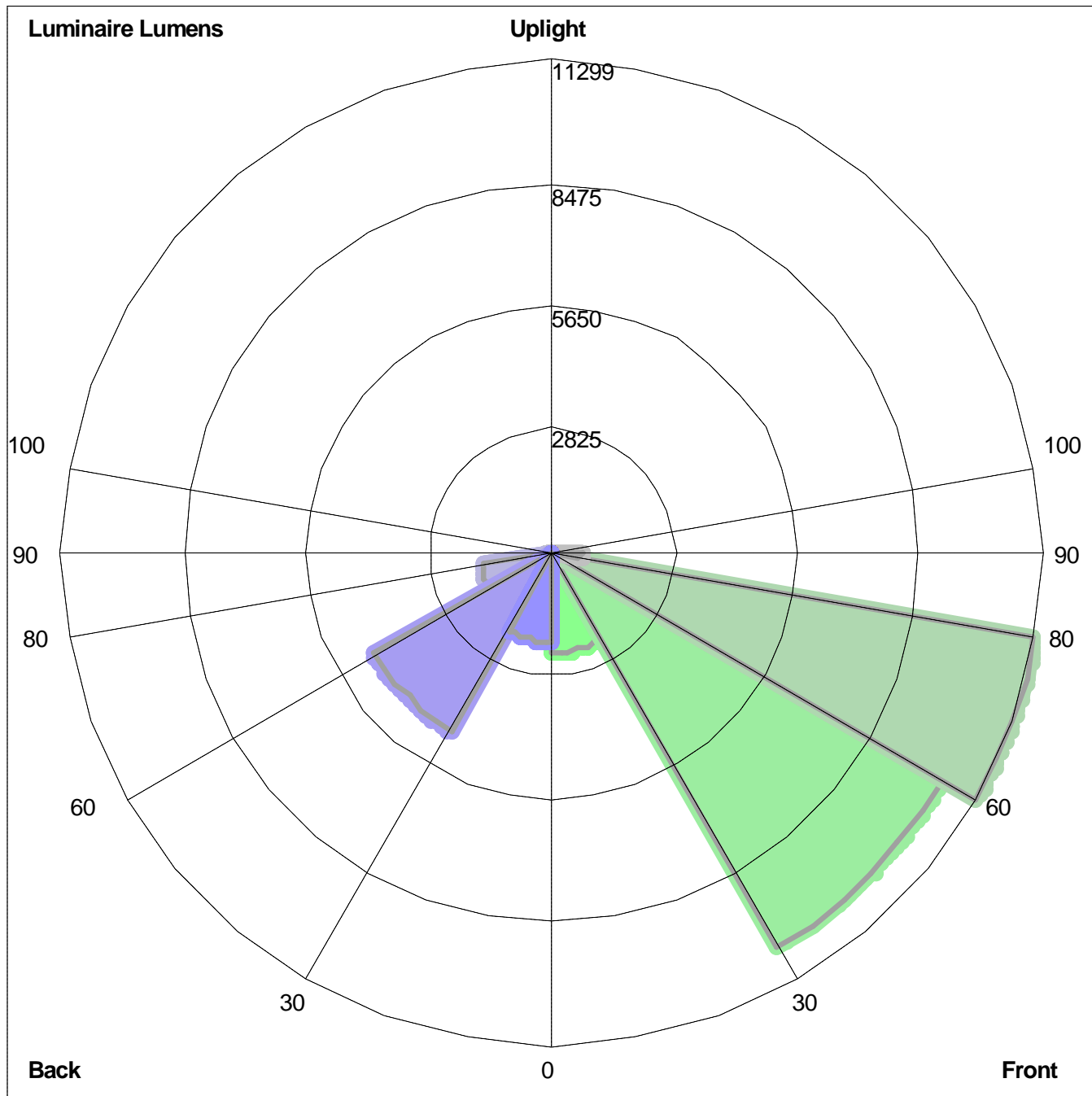
Maximum Candela = 20068 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2303.1, Medium=10400.7, High=11299.4, Very High=651.2  
Back: Low=2051.9, Medium=4709.9, High=1671.6, Very High=124.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4