



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HLN-2-LED-32L-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8447  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/12/17  
[TEST DATE]01/11/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]HLN-2-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 II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	32137
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	309.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23411
Maximum Candela Angle	82.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	23411
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1415 (4.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2402.8	N.A.	7.5
FM - Front-Medium (30-60)	11263.3	N.A.	35.0
FH - Front-High (60-80)	6690.5	N.A.	20.8
FVH - Front-Very High (80-90)	113.5	N.A.	0.4
BL - Back-Low (0-30)	1980.9	N.A.	6.2
BM - Back-Medium (30-60)	6908.4	N.A.	21.5
BH - Back-High (60-80)	2658.2	N.A.	8.3
BVH - Back-Very High (80-90)	119.5	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	32137.1	N.A.	100.0
BUG Rating	B4-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>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>	<u><b>82.5</b></u>
<b>0.0</b>	4822	4822	4822	4822	4822	4822	4822	4822	4822	4822
<b>2.5</b>	4887	4886	4904	4892	4893	4883	4875	4871	4848	4840
<b>5.0</b>	4969	4965	4986	4978	4982	4976	4965	4958	4923	4904
<b>7.5</b>	5030	5030	5053	5059	5067	5070	5067	5066	5025	4998
<b>10.0</b>	5089	5087	5120	5139	5158	5174	5185	5198	5171	5129
<b>12.5</b>	5119	5123	5169	5208	5262	5298	5336	5367	5343	5309
<b>15.0</b>	5120	5125	5188	5254	5348	5429	5510	5563	5546	5511
<b>17.5</b>	5110	5120	5194	5286	5419	5570	5695	5789	5787	5759
<b>20.0</b>	5128	5139	5223	5334	5495	5687	5886	6042	6065	6039
<b>22.5</b>	5169	5181	5270	5401	5588	5810	6071	6311	6383	6352
<b>25.0</b>	5234	5249	5343	5486	5700	5947	6256	6578	6712	6696
<b>27.5</b>	5343	5370	5458	5617	5837	6103	6436	6849	7064	7070
<b>30.0</b>	5507	5542	5627	5798	6024	6285	6627	7110	7432	7474
<b>32.5</b>	5770	5808	5916	6052	6269	6518	6844	7361	7808	7906
<b>35.0</b>	6171	6214	6308	6411	6592	6812	7104	7619	8191	8361
<b>37.5</b>	6718	6797	6847	6888	7022	7200	7423	7913	8582	8843
<b>40.0</b>	7534	7550	7575	7563	7594	7715	7829	8201	8972	9346
<b>42.5</b>	8431	8447	8468	8478	8375	8395	8365	8535	9388	9925
<b>45.0</b>	9249	9283	9335	9401	9326	9365	9099	8954	9810	10565
<b>47.5</b>	9824	9875	9975	10194	10354	10539	10094	9514	10291	11259
<b>50.0</b>	10105	10168	10321	10696	11168	11749	11425	10275	10840	12025
<b>52.5</b>	9914	10001	10253	10805	11603	12744	13062	11350	11542	12917
<b>55.0</b>	9190	9245	9639	10331	11476	13364	14956	12825	12359	14184
<b>57.5</b>	7895	7941	8322	9070	10555	13295	16513	15090	13395	15638
<b>60.0</b>	6106	6108	6244	7032	8673	12171	17789	17664	14874	17324
<b>62.5</b>	4045	3926	3983	4530	5922	9592	17882	19882	16639	19943
<b>65.0</b>	2372	2412	2351	2478	3209	5904	16149	21353	19072	22195
<b>67.5</b>	1364	1418	1435	1488	1798	2666	11707	21059	20855	23411
<b>70.0</b>	617	658	727	872	1137	1514	6219	17772	20937	22014
<b>72.5</b>	340	359	370	486	665	1026	2719	11214	15906	13486
<b>75.0</b>	240	249	241	314	433	659	1491	5211	7764	4352
<b>77.5</b>	193	204	197	240	317	457	839	2532	3084	1501
<b>80.0</b>	171	178	156	182	242	347	461	1246	1415	864
<b>82.5</b>	143	144	118	121	160	264	305	544	695	434
<b>85.0</b>	98	102	84	84	92	168	218	249	372	246
<b>87.5</b>	51	55	47	46	52	81	119	123	154	130
<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>	4822	4822	4822	4822	4822	4822	4822	4822	4822	4822
<b>2.5</b>	4847	4835	4830	4819	4804	4786	4798	4792	4770	4765
<b>5.0</b>	4908	4883	4879	4837	4793	4742	4722	4685	4637	4611
<b>7.5</b>	4997	4963	4950	4876	4792	4693	4625	4540	4451	4410
<b>10.0</b>	5126	5083	5057	4943	4801	4637	4498	4364	4252	4195
<b>12.5</b>	5289	5239	5197	5034	4824	4580	4374	4207	4088	4025
<b>15.0</b>	5486	5426	5371	5154	4845	4516	4266	4082	3979	3935
<b>17.5</b>	5722	5651	5577	5290	4870	4448	4173	4012	3947	3943
<b>20.0</b>	6003	5911	5814	5446	4901	4395	4113	4006	3998	4036
<b>22.5</b>	6330	6204	6083	5616	4934	4355	4105	4059	4121	4207
<b>25.0</b>	6673	6527	6383	5796	4955	4343	4146	4185	4323	4454
<b>27.5</b>	7042	6884	6714	5989	4978	4363	4258	4393	4600	4777

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**CANDELA TABULATION - (Cont.)**

30.0	7449	7280	7091	6185	5012	4428	4445	4670	4931	5158
32.5	7890	7739	7493	6391	5078	4563	4699	5004	5299	5567
35.0	8362	8210	7929	6606	5180	4770	4988	5341	5702	5980
37.5	8867	8740	8390	6823	5315	5018	5286	5675	6103	6390
40.0	9399	9280	8879	7039	5490	5289	5566	6001	6425	6696
42.5	9980	9874	9424	7253	5688	5543	5821	6218	6562	6749
45.0	10619	10528	9977	7454	5885	5740	5951	6218	6376	6413
47.5	11336	11248	10564	7633	6037	5823	5875	5911	5841	5747
50.0	12221	12027	11168	7732	6097	5694	5555	5339	5072	4900
52.5	13147	12893	11787	7753	6029	5385	5010	4635	4256	4053
55.0	14505	14185	12444	7712	5875	4969	4413	3946	3528	3385
57.5	15963	15458	13096	7665	5675	4506	3831	3362	3011	2929
60.0	17719	16856	14019	7575	5463	4071	3351	3005	2607	2521
62.5	19856	18470	14375	7342	5192	3673	2988	2693	2148	2044
65.0	21884	19437	13882	6809	4783	3235	2611	2287	1715	1567
67.5	22730	18897	12282	5629	4046	2626	2098	1827	1241	1057
70.0	20175	15011	8349	3880	2862	1878	1551	1298	841	712
72.5	11319	7968	4114	2157	1777	1230	1054	846	567	491
75.0	3390	2673	1803	1176	1029	868	693	543	406	361
77.5	1299	1046	945	757	709	630	468	383	325	292
80.0	691	599	551	572	563	424	326	286	373	376
82.5	375	317	299	469	373	267	224	274	536	535
85.0	230	182	188	336	183	170	153	170	274	150
87.5	127	96	112	100	92	74	41	53	137	48
90.0	0	0	0	0	0	0	0	0	0	0

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

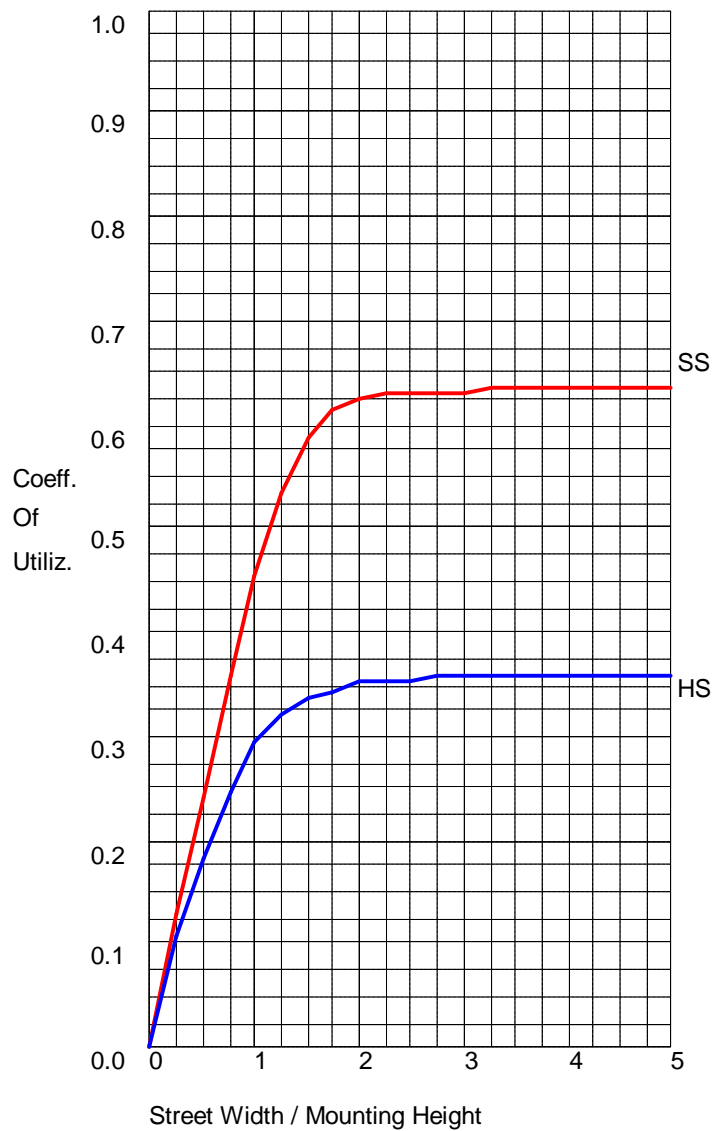
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	4822	4822
2.5	4741	4736
5.0	4578	4573
7.5	4364	4357
10.0	4143	4137
12.5	3984	3974
15.0	3906	3897
17.5	3933	3931
20.0	4053	4056
22.5	4261	4259
25.0	4532	4534
27.5	4878	4882
30.0	5263	5269
32.5	5689	5692
35.0	6112	6112
37.5	6524	6515
40.0	6800	6787
42.5	6790	6772
45.0	6412	6395
47.5	5672	5623
50.0	4754	4743
52.5	3918	3904
55.0	3285	3264
57.5	2857	2834
60.0	2411	2386
62.5	1927	1892
65.0	1427	1389

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	967	923
<b>70.0</b>	672	645
<b>72.5</b>	487	495
<b>75.0</b>	369	383
<b>77.5</b>	301	304
<b>80.0</b>	445	453
<b>82.5</b>	553	561
<b>85.0</b>	108	111
<b>87.5</b>	22	17
<b>90.0</b>	0	0

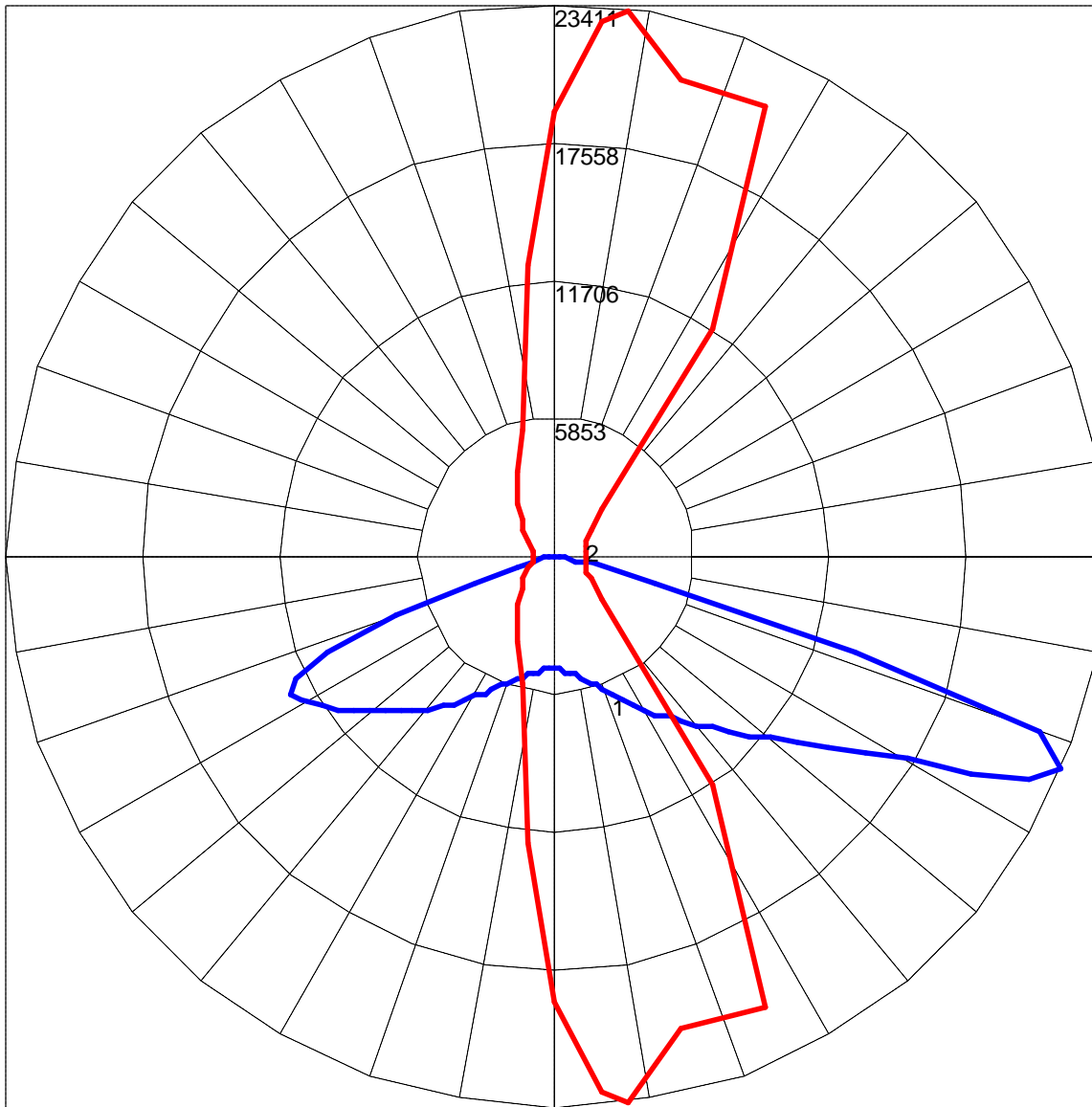
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

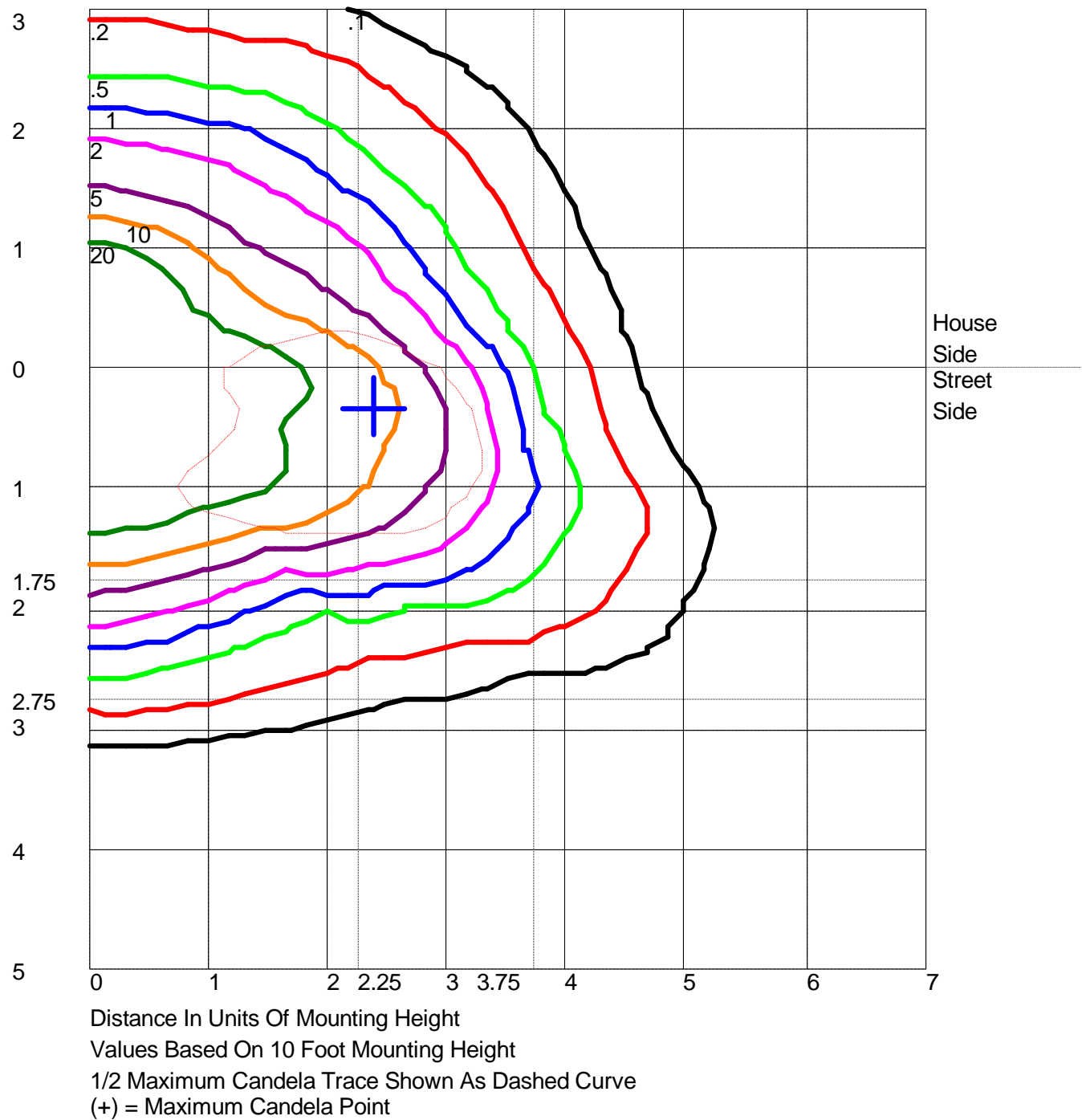
	Lumens	Percent Of Luminaire
Downward Street Side	20470.1	63.7
Downward House Side	11666.9	36.3
Downward Total	32137.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32137.0	100.0

POLAR GRAPH



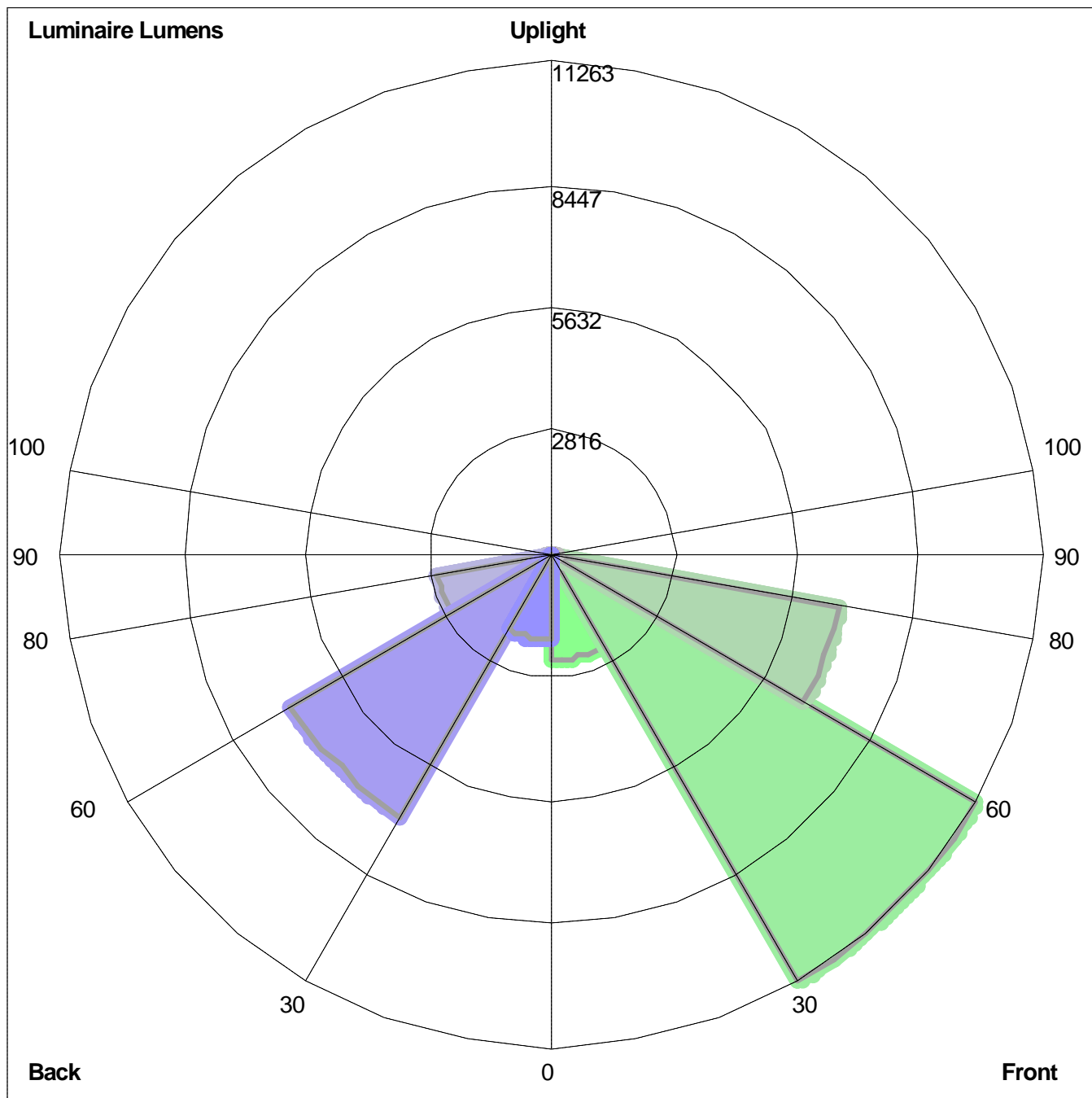
Maximum Candela = 23411 Located At Horizontal Angle = 82.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2402.8, Medium=11263.3, High=6690.5, Very High=113.5  
Back: Low=1980.9, Medium=6908.4, High=2658.2, Very High=119.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4