



IES ROAD REPORT
PHOTOMETRIC FILENAME : HLN-2-LED-32L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8456
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/16/17
[TEST DATE]01/13/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]HLN-2-LED-32L-50
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	32250
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	310
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24660
Maximum Candela Angle	82.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	24660
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	1297 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2294.9	N.A.	7.1
FM - Front-Medium (30-60)	11364.4	N.A.	35.2
FH - Front-High (60-80)	6761.5	N.A.	21.0
FVH - Front-Very High (80-90)	111.0	N.A.	0.3
BL - Back-Low (0-30)	1874.8	N.A.	5.8
BM - Back-Medium (30-60)	6919.3	N.A.	21.5
BH - Back-High (60-80)	2798.0	N.A.	8.7
BVH - Back-Very High (80-90)	126.0	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	32249.9	N.A.	100.0
BUG Rating	B4-U0-G4		

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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>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	4598	4598	4598	4598	4598	4598	4598	4598	4598	4598
2.5	4617	4646	4652	4654	4652	4646	4625	4635	4595	4605
5.0	4677	4708	4715	4718	4715	4710	4691	4698	4651	4660
7.5	4751	4775	4786	4793	4794	4791	4771	4780	4728	4736
10.0	4830	4855	4870	4883	4889	4891	4876	4889	4837	4842
12.5	4888	4916	4943	4974	5005	5020	5029	5048	5002	4999
15.0	4902	4935	4976	5036	5107	5170	5215	5249	5204	5194
17.5	4895	4931	4986	5070	5186	5327	5423	5485	5440	5420
20.0	4905	4942	5015	5119	5263	5450	5637	5750	5716	5684
22.5	4941	4983	5061	5198	5363	5562	5816	6032	6045	5988
25.0	5005	5050	5138	5287	5473	5686	5977	6318	6405	6346
27.5	5106	5160	5257	5410	5611	5835	6134	6606	6807	6759
30.0	5311	5372	5450	5591	5791	6022	6327	6889	7236	7217
32.5	5646	5709	5777	5863	6027	6255	6565	7180	7670	7706
35.0	6155	6222	6260	6269	6352	6547	6850	7467	8099	8210
37.5	6785	6893	6873	6867	6820	6943	7201	7758	8535	8742
40.0	7568	7691	7634	7570	7437	7492	7636	8080	8951	9342
42.5	8675	8701	8608	8482	8290	8222	8204	8433	9362	9894
45.0	9706	9745	9661	9563	9343	9298	9008	8855	9742	10491
47.5	10500	10570	10540	10564	10558	10569	10085	9441	10182	11181
50.0	10730	10843	10906	11138	11541	12015	11644	10273	10732	12010
52.5	10376	10508	10672	11083	11971	13268	13446	11466	11434	12970
55.0	9541	9629	9921	10447	11703	13780	15321	13101	12316	14046
57.5	8199	8253	8416	9132	10679	13435	17179	15505	13463	15562
60.0	6300	6296	6287	6864	8694	12036	18012	18307	15083	17905
62.5	3850	3926	3859	4225	5705	9243	17747	20823	17463	20371
65.0	2307	2358	2262	2309	3092	5453	15578	22287	19889	22760
67.5	1321	1372	1387	1380	1711	2428	10856	21829	21719	24660
70.0	628	664	738	841	1079	1395	6154	18059	20881	23275
72.5	348	368	382	483	676	954	2554	10938	15662	14378
75.0	247	256	241	321	447	648	1329	4968	7645	4677
77.5	199	207	197	245	325	452	798	2291	2972	1496
80.0	173	181	163	186	249	342	458	1119	1297	768
82.5	148	149	121	127	165	257	300	535	641	407
85.0	106	107	89	89	98	161	208	256	353	250
87.5	58	60	52	51	54	87	119	130	157	140
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	4598	4598	4598	4598	4598	4598	4598	4598	4598	4598
2.5	4607	4632	4608	4597	4601	4586	4594	4584	4577	4569
5.0	4655	4675	4646	4619	4603	4569	4554	4518	4493	4469
7.5	4725	4742	4704	4658	4614	4541	4479	4393	4325	4270
10.0	4826	4837	4792	4716	4626	4486	4351	4201	4086	4002
12.5	4976	4982	4923	4809	4646	4415	4187	3981	3845	3764
15.0	5176	5161	5085	4920	4669	4324	4013	3797	3689	3645
17.5	5409	5371	5276	5055	4681	4206	3866	3688	3654	3673
20.0	5669	5614	5499	5197	4683	4093	3763	3679	3725	3791
22.5	5968	5898	5759	5364	4672	3990	3738	3759	3871	3980
25.0	6324	6240	6074	5566	4664	3932	3804	3920	4087	4223
27.5	6741	6648	6451	5794	4651	3951	3936	4127	4387	4562

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CANDELA TABULATION - (Cont.)

30.0	7206	7133	6907	6045	4659	4046	4138	4426	4775	5000
32.5	7700	7635	7375	6296	4720	4221	4425	4825	5232	5506
35.0	8219	8165	7890	6535	4838	4484	4784	5260	5721	6034
37.5	8773	8754	8408	6761	5030	4813	5165	5675	6148	6467
40.0	9351	9349	8949	6983	5290	5163	5526	6005	6495	6802
42.5	9949	9970	9508	7202	5598	5496	5780	6235	6672	6882
45.0	10589	10642	10089	7415	5856	5708	5917	6249	6485	6521
47.5	11409	11402	10718	7609	6037	5793	5851	5899	5890	5767
50.0	12302	12287	11386	7736	6118	5689	5469	5275	5099	4912
52.5	13304	13249	12082	7812	6096	5383	4929	4529	4254	4083
55.0	14423	14272	12855	7868	5996	4967	4337	3856	3512	3388
57.5	16240	15933	13628	7943	5853	4513	3779	3333	3005	2979
60.0	18195	17755	14656	8014	5722	4115	3349	3011	2659	2588
62.5	20704	19462	15289	7986	5573	3759	3016	2788	2276	2130
65.0	23034	20602	15145	7533	5191	3374	2713	2426	1810	1636
67.5	24122	20001	13114	6119	4338	2730	2194	1906	1327	1145
70.0	21328	15906	8878	3949	3031	1938	1607	1375	908	748
72.5	11718	7949	4235	2170	1824	1271	1107	888	604	520
75.0	3540	2554	1771	1180	1049	879	743	572	412	378
77.5	1235	968	864	730	704	638	491	401	345	304
80.0	686	544	515	562	566	408	331	293	395	329
82.5	371	315	300	466	366	262	229	246	540	625
85.0	224	193	194	324	180	169	170	209	345	212
87.5	125	113	115	102	97	78	53	61	175	58
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

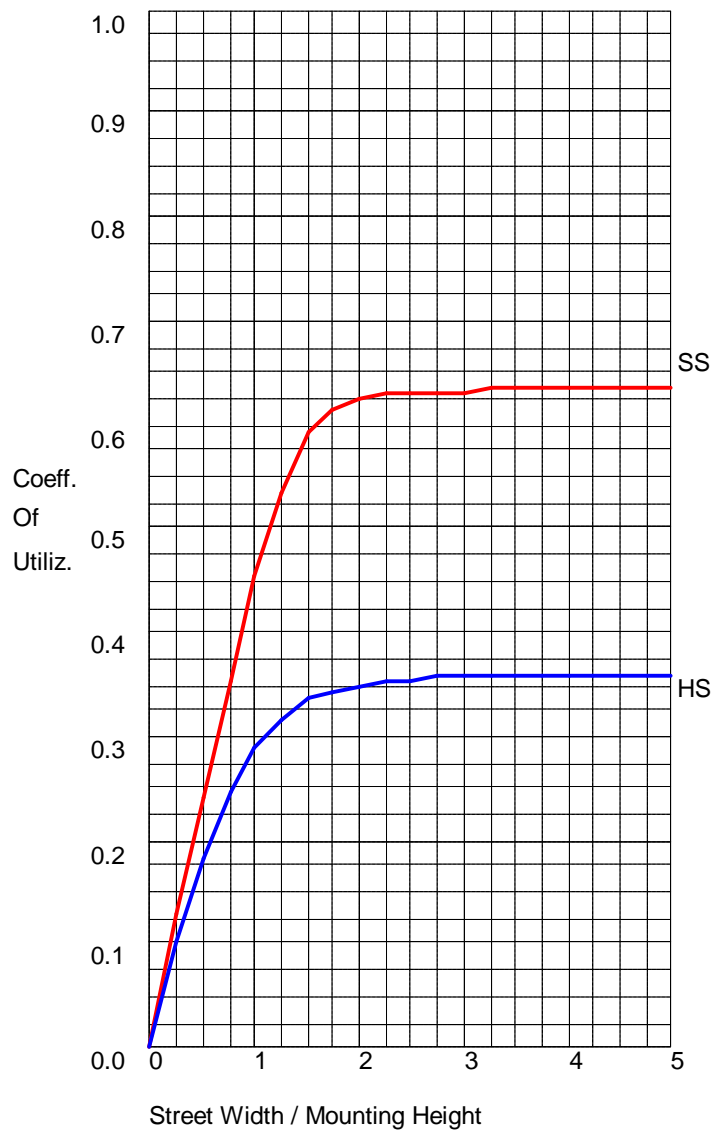
	<u>175.0</u>	<u>180.0</u>
0.0	4598	4598
2.5	4562	4551
5.0	4456	4445
7.5	4232	4232
10.0	3953	3951
12.5	3722	3717
15.0	3626	3616
17.5	3685	3686
20.0	3831	3829
22.5	4041	4043
25.0	4308	4312
27.5	4681	4690
30.0	5148	5159
32.5	5666	5679
35.0	6168	6174
37.5	6599	6598
40.0	6923	6914
42.5	6941	6911
45.0	6468	6442
47.5	5713	5693
50.0	4844	4821
52.5	3978	3951
55.0	3315	3285
57.5	2922	2893
60.0	2517	2477
62.5	2013	1993
65.0	1508	1423

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CANDELA TABULATION - (Cont.)

67.5	1062	1005
70.0	718	672
72.5	530	516
75.0	391	391
77.5	311	314
80.0	375	388
82.5	698	713
85.0	138	128
87.5	29	26
90.0	0	0

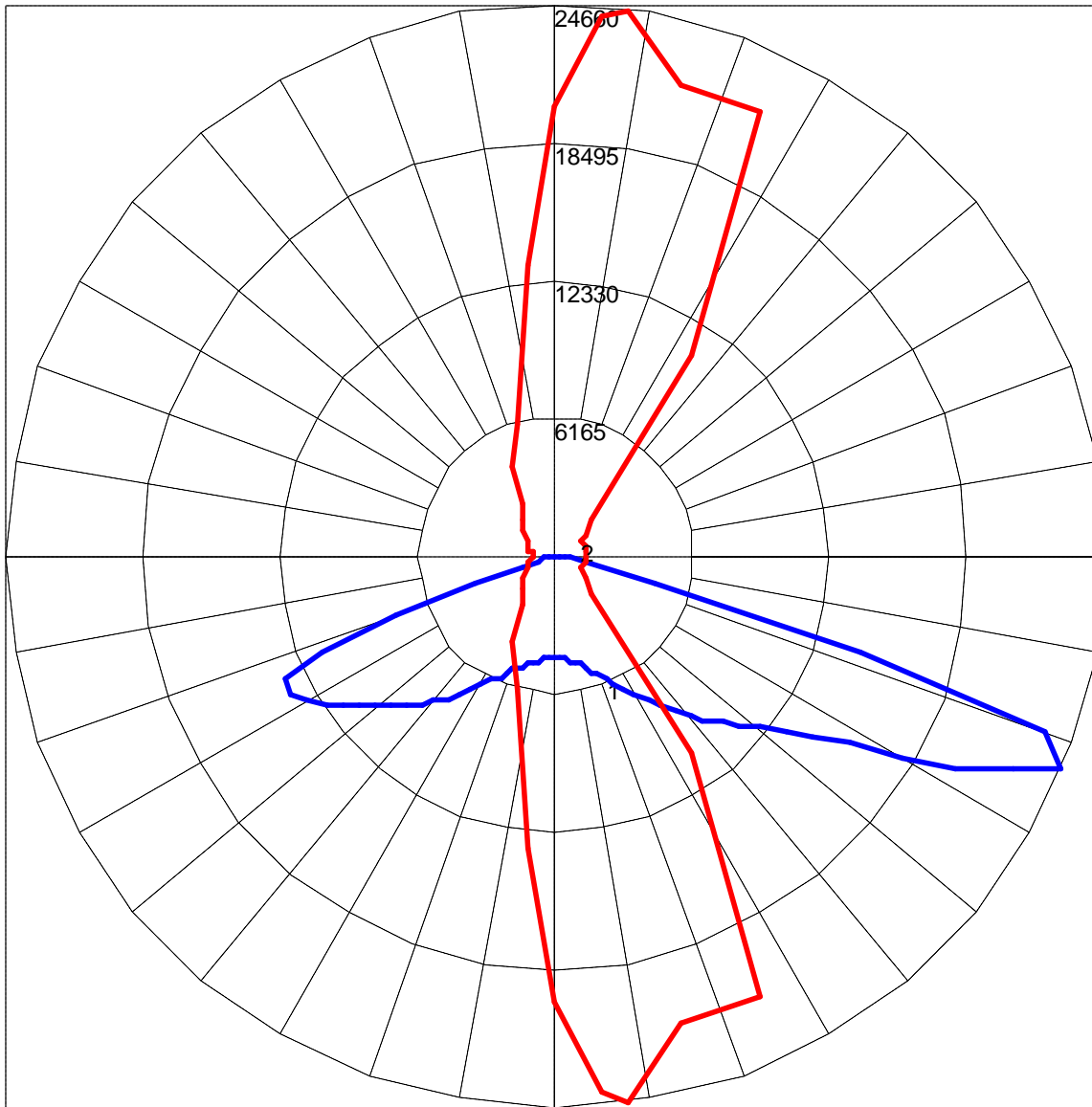
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

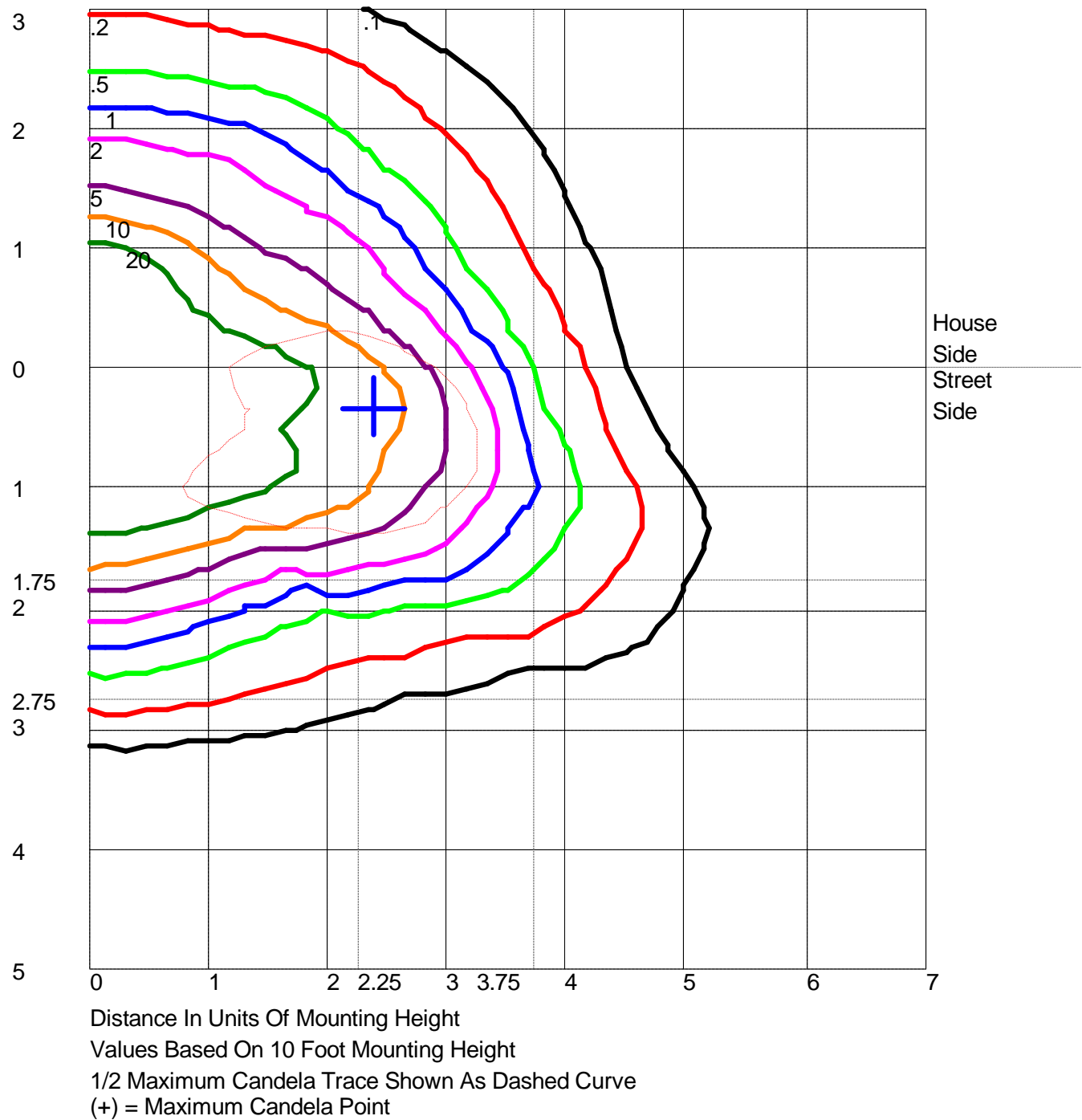
	Lumens	Percent Of Luminaire
Downward Street Side	20531.8	63.7
Downward House Side	11718.1	36.3
Downward Total	32249.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32249.9	100.0

POLAR GRAPH

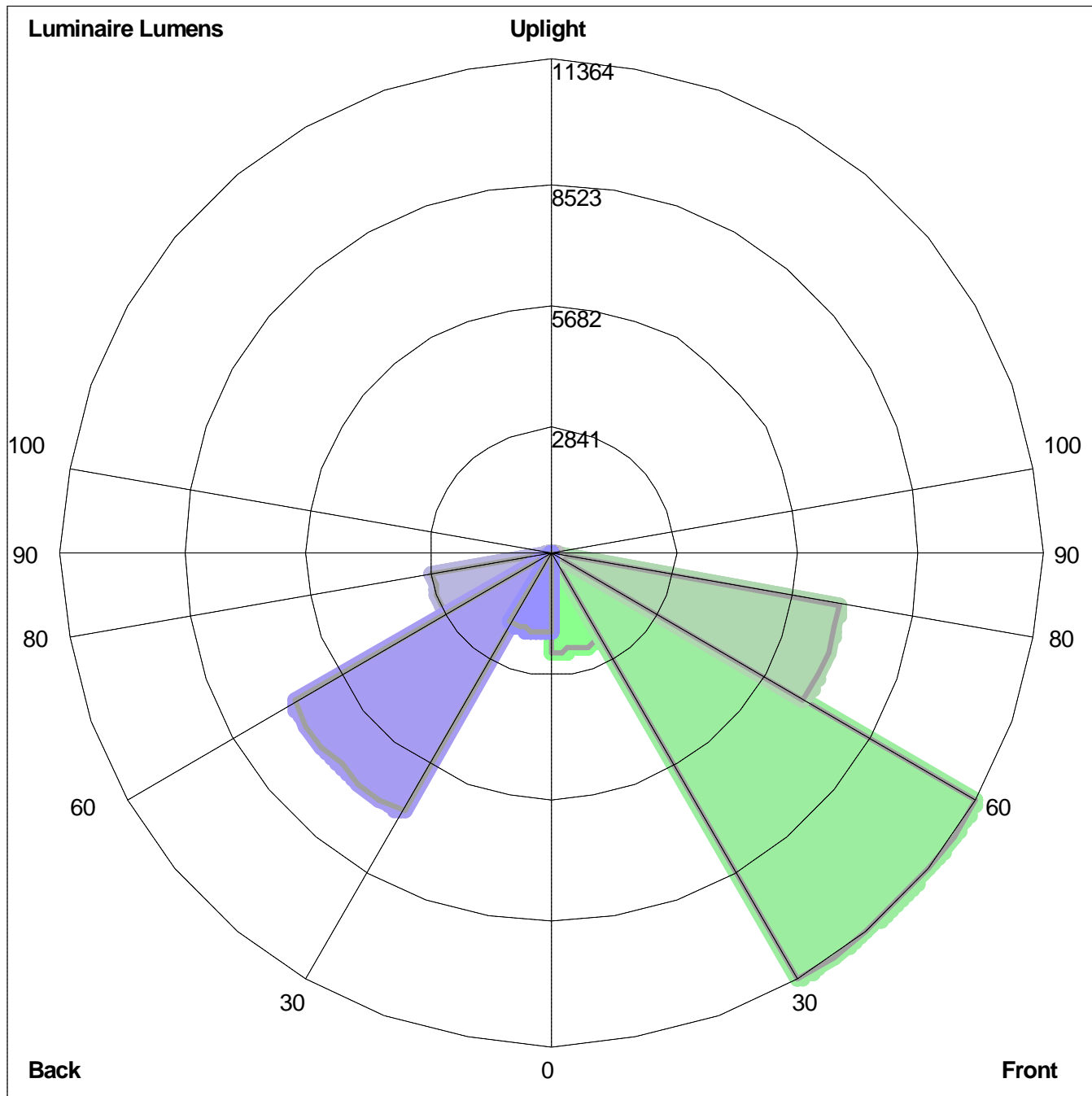


Maximum Candela = 24660 Located At Horizontal Angle = 82.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2294.9, Medium=11364.4, High=6761.5, Very High=111.0
Back: Low=1874.8, Medium=6919.3, High= 2798.0, Very High=126.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4