



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-23L-FT-30K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12230

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 10/22/2021

[TESTDATE] 09/24/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] HPG-23L-FT-30K8

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23357
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	198
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11137
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	11137
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1410 (6.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2149.8	N.A.	9.2
FM - Front-Medium (30-60)	7093.8	N.A.	30.4
FH - Front-High (60-80)	4911.4	N.A.	21.0
FVH - Front-Very High (80-90)	149.8	N.A.	0.6
BL - Back-Low (0-30)	2251.2	N.A.	9.6
BM - Back-Medium (30-60)	5026.5	N.A.	21.5
BH - Back-High (60-80)	1680.8	N.A.	7.2
BVH - Back-Very High (80-90)	93.8	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	23357.1	N.A.	100.0
BUG Rating	B4-U0-G3		

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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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	5296	5296	5296	5296	5296	5296	5296	5296	5296	5296
2.5	5246	5261	5252	5258	5284	5325	5307	5309	5312	5323
5.0	5218	5241	5229	5235	5257	5303	5288	5301	5306	5320
7.5	5155	5174	5164	5182	5214	5261	5249	5259	5277	5301
10.0	5081	5102	5097	5110	5158	5215	5207	5231	5251	5289
12.5	5010	5033	5030	5052	5104	5169	5163	5198	5225	5267
15.0	4954	4975	4970	5000	5050	5125	5117	5161	5195	5252
17.5	4901	4928	4920	4947	5012	5082	5084	5131	5168	5231
20.0	4868	4901	4897	4927	4988	5060	5057	5107	5154	5213
22.5	4856	4884	4889	4926	4992	5058	5056	5099	5138	5199
25.0	4856	4878	4902	4943	5015	5077	5078	5116	5155	5200
27.5	4883	4904	4931	4977	5046	5113	5107	5143	5169	5213
30.0	4905	4936	4973	5020	5095	5148	5137	5162	5186	5236
32.5	4931	4957	5001	5068	5154	5207	5199	5206	5229	5276
35.0	4953	4975	5032	5124	5222	5280	5269	5273	5267	5289
37.5	5010	5029	5084	5203	5306	5368	5355	5336	5311	5283
40.0	5150	5168	5202	5320	5412	5478	5457	5428	5356	5286
42.5	5327	5336	5388	5496	5591	5633	5616	5569	5436	5342
45.0	5562	5575	5620	5723	5813	5860	5855	5779	5564	5423
47.5	5954	5965	6015	6088	6117	6177	6185	6076	5695	5528
50.0	6498	6527	6514	6575	6580	6616	6605	6386	5878	5665
52.5	7157	7197	7155	7210	7184	7209	7176	6810	6153	5832
55.0	7776	7822	7822	7936	7990	7994	7955	7421	6514	5987
57.5	8340	8349	8450	8626	8931	8912	8869	8235	6866	6147
60.0	8346	8426	8687	9063	9752	9955	9924	8958	7238	6325
62.5	7726	7877	8316	8953	10272	10895	10821	9571	7410	6177
65.0	6618	6708	7225	8100	9978	11137	11080	9705	7133	5573
67.5	5040	5100	5527	6437	8531	10176	10274	9223	6333	4506
70.0	3349	3432	3714	4530	6361	8258	8481	7845	5096	3249
72.5	2085	2062	2296	2842	4133	5880	6196	6046	3402	1961
75.0	1244	1272	1399	1779	2639	3713	3913	3817	2190	1199
77.5	816	832	931	1237	1617	2280	2397	2226	1330	640
80.0	553	565	595	849	1126	1353	1410	1153	598	323
82.5	346	342	387	597	704	594	548	383	269	229
85.0	194	198	219	429	403	174	152	116	119	147
87.5	89	92	108	193	185	61	60	54	54	61
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	5296	5296	5296	5296	5296	5296	5296	5296	5296	5296
2.5	5354	5369	5365	5334	5320	5321	5339	5293	5276	5274
5.0	5360	5373	5372	5348	5335	5331	5350	5318	5299	5297
7.5	5356	5375	5374	5354	5344	5348	5368	5321	5299	5286
10.0	5342	5368	5372	5356	5356	5350	5353	5321	5307	5310
12.5	5336	5357	5368	5356	5350	5340	5358	5346	5345	5353
15.0	5327	5353	5365	5352	5337	5346	5380	5370	5374	5388
17.5	5316	5349	5360	5347	5316	5338	5394	5391	5391	5407
20.0	5308	5346	5356	5329	5290	5338	5398	5400	5405	5423
22.5	5300	5339	5349	5300	5275	5334	5396	5403	5410	5438
25.0	5288	5319	5325	5250	5242	5322	5388	5393	5406	5436
27.5	5283	5299	5292	5186	5185	5280	5352	5374	5393	5416

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CANDELA TABULATION - (Cont.)

30.0	5286	5291	5268	5119	5122	5217	5296	5327	5355	5380
32.5	5287	5275	5229	5043	5039	5136	5220	5253	5288	5325
35.0	5269	5234	5171	4948	4941	5047	5130	5162	5202	5242
37.5	5226	5177	5100	4829	4824	4930	5013	5032	5071	5122
40.0	5192	5119	5012	4711	4685	4776	4847	4866	4909	4971
42.5	5193	5089	4955	4585	4522	4598	4645	4676	4736	4847
45.0	5235	5091	4923	4463	4325	4387	4425	4450	4519	4791
47.5	5299	5121	4910	4338	4100	4145	4172	4198	4319	4772
50.0	5403	5181	4913	4211	3856	3879	3916	3970	4243	4462
52.5	5519	5248	4918	4078	3590	3587	3673	3843	3980	4042
55.0	5587	5260	4860	3896	3300	3318	3430	3446	3613	3674
57.5	5715	5345	4857	3689	2943	3018	3068	3164	3212	3278
60.0	5848	5454	4901	3599	2634	2654	2758	2853	2822	2855
62.5	5593	5138	4551	3337	2404	2282	2407	2533	2476	2457
65.0	4952	4376	3714	2757	1984	1981	2057	2245	2176	2177
67.5	3926	3462	2914	2277	1514	1635	1850	2068	1899	1915
70.0	2794	2452	2071	1926	1269	1257	1494	1510	1580	1659
72.5	1516	1356	1183	1386	1079	1035	1067	1236	1281	1392
75.0	798	719	712	860	715	734	786	922	968	1138
77.5	412	388	431	516	486	444	502	616	671	863
80.0	244	233	263	314	293	295	347	372	419	563
82.5	192	182	181	212	207	204	215	236	247	327
85.0	123	116	118	129	131	131	134	139	158	169
87.5	62	60	63	68	72	71	69	77	68	80
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

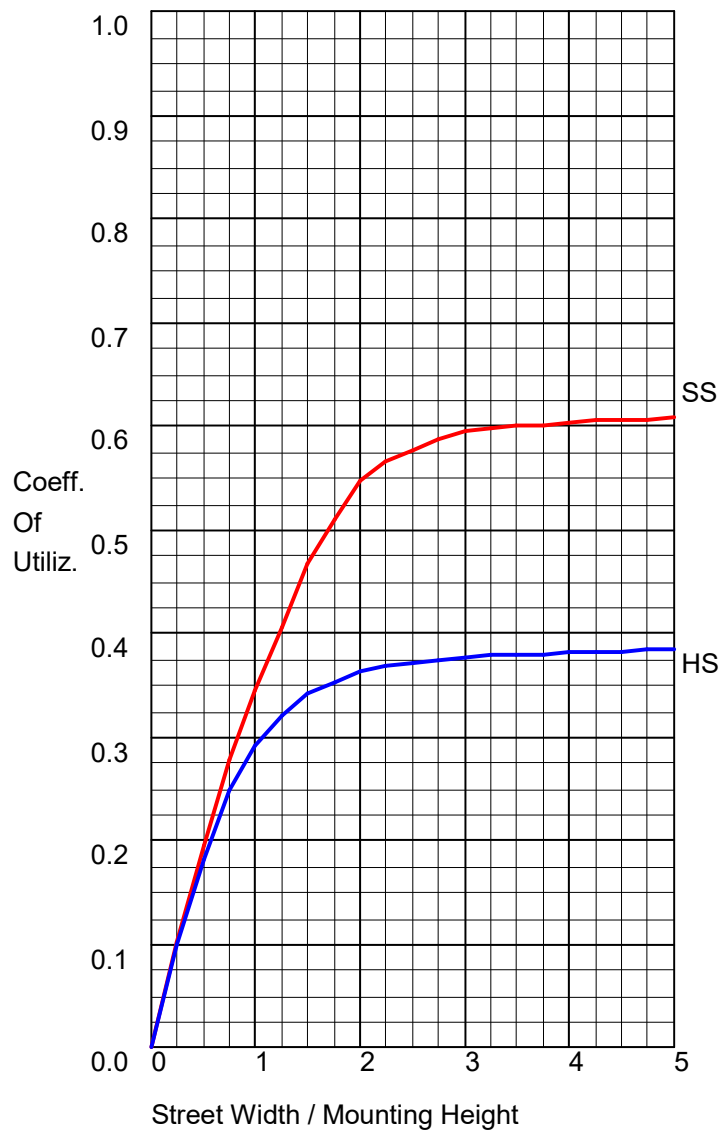
	<u>175.0</u>	<u>180.0</u>
0.0	5296	5296
2.5	5271	5250
5.0	5301	5279
7.5	5291	5273
10.0	5317	5294
12.5	5364	5344
15.0	5400	5377
17.5	5426	5402
20.0	5447	5432
22.5	5465	5447
25.0	5467	5447
27.5	5451	5438
30.0	5413	5406
32.5	5356	5339
35.0	5277	5256
37.5	5160	5146
40.0	5048	5041
42.5	5040	5064
45.0	5208	5260
47.5	5064	5075
50.0	4530	4526
52.5	4081	4082
55.0	3714	3724
57.5	3304	3288
60.0	2844	2848
62.5	2501	2516
65.0	2244	2259

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CANDELA TABULATION - (Cont.)

67.5	2016	2036
70.0	1772	1779
72.5	1513	1522
75.0	1284	1308
77.5	1026	1038
80.0	748	787
82.5	495	519
85.0	268	276
87.5	121	126
90.0	0	0

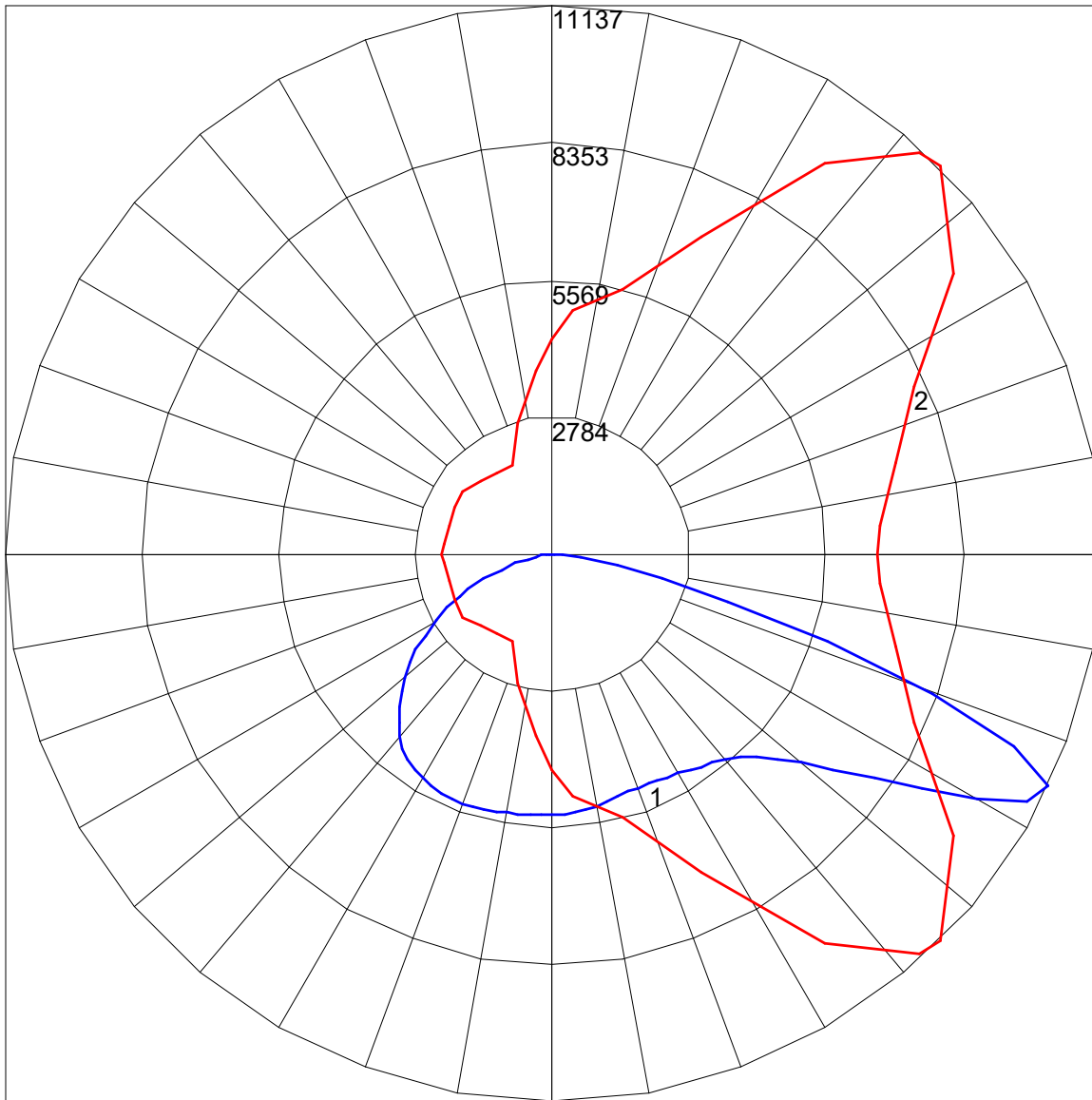
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

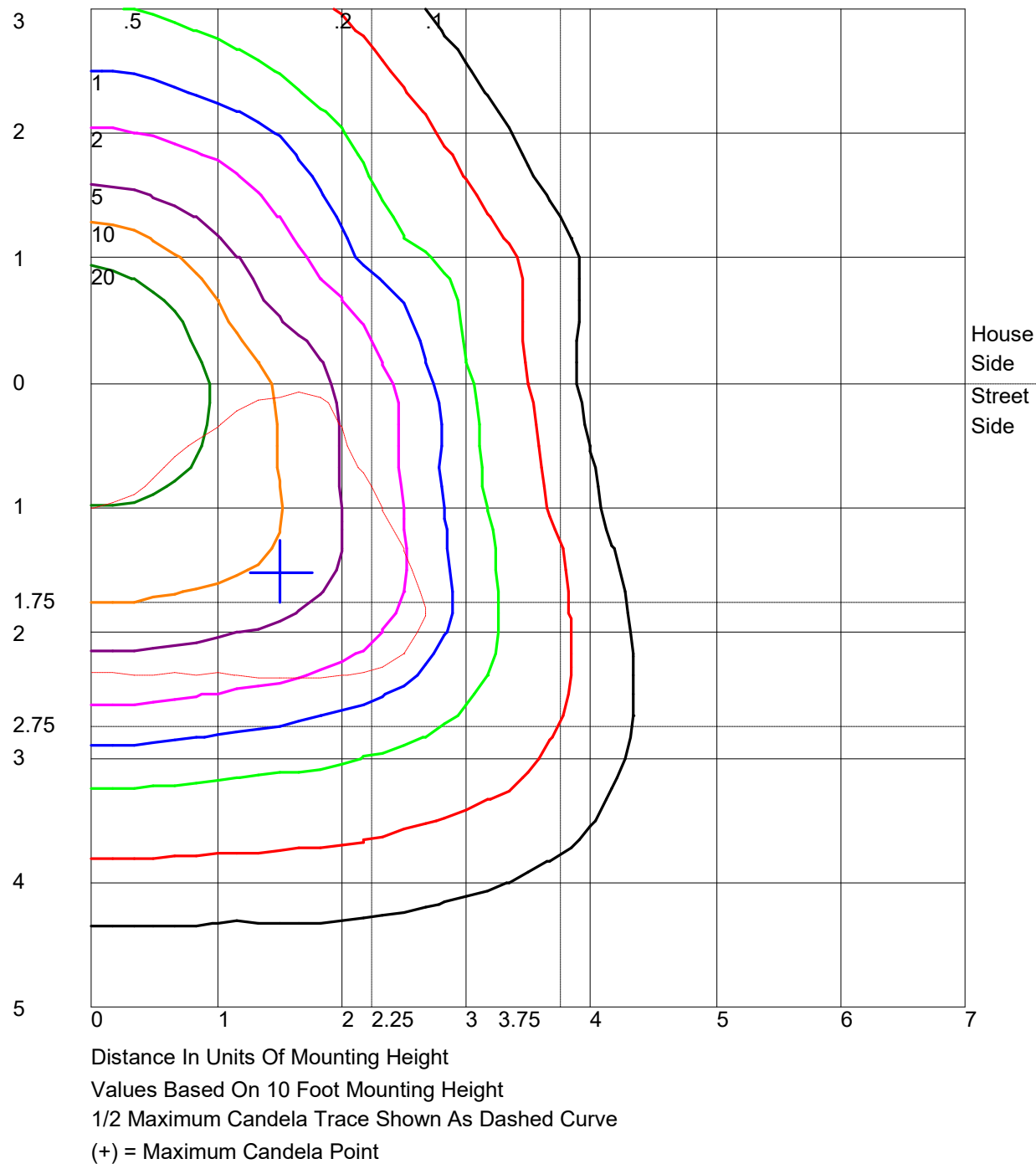
	Lumens	Percent Of Luminaire
Downward Street Side	14304.8	61.2
Downward House Side	9052.3	38.8
Downward Total	23357.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23357.1	100.0

POLAR GRAPH

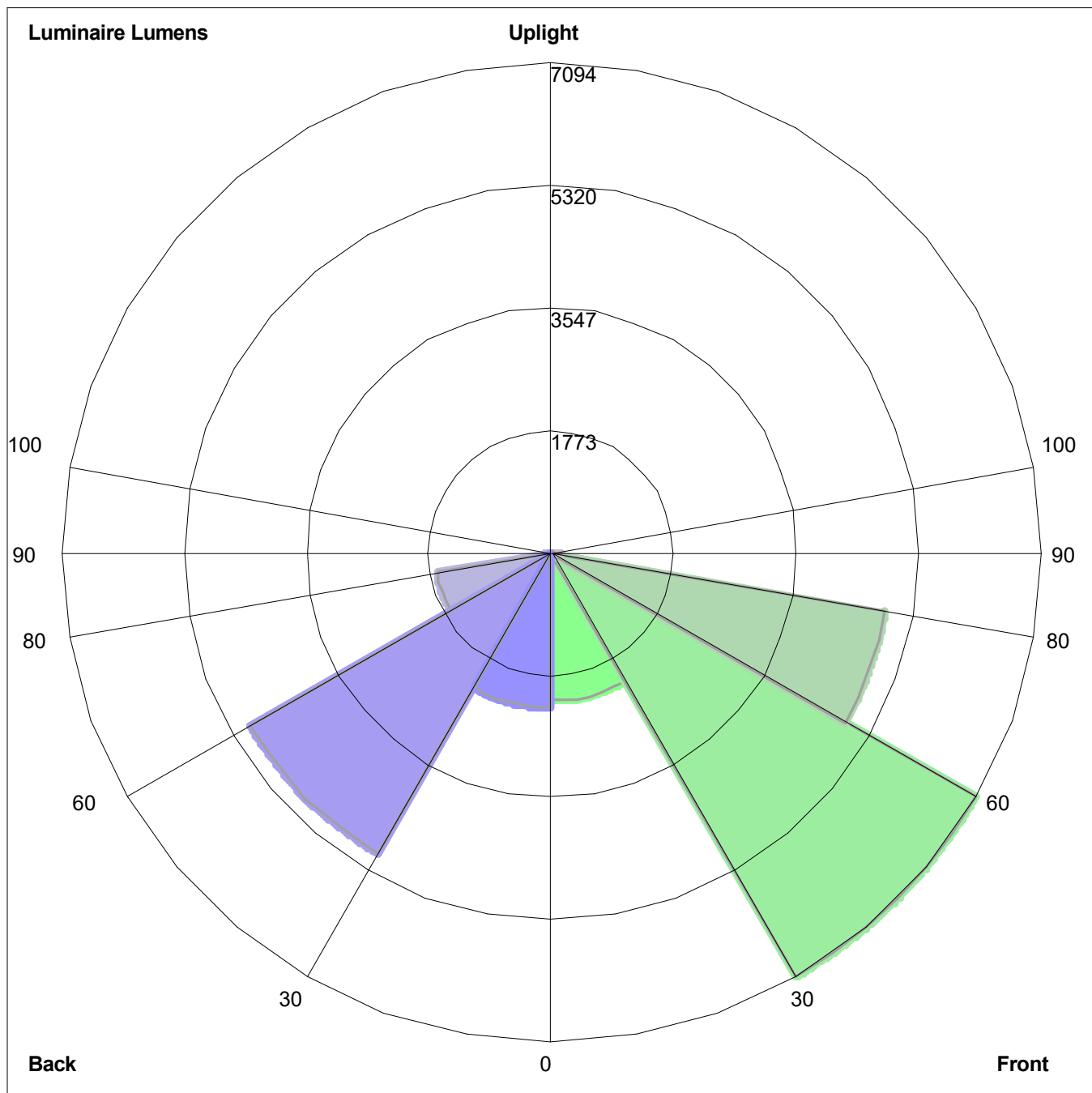


Maximum Candela = 11137 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2149.8, Medium=7093.8, High=4911.4, Very High=149.8
Back: Low=2251.2, Medium=5026.5, High=1680.8, Very High=93.8
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3