



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SLW-LED-20L-FT-UNV-DIM-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11776

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 5/7/2020

[TEST DATE] 04/28/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SLW-LED-20L-FT-UNV-DIM-50

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

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

[OTHER] SCALED FROM ORIGINAL TEST DATA

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20337
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	155
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8995
Maximum Candela Angle	37.5H 70V
Maximum Candela (<90 Degrees Vertical)	8995
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1938 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1893.2	N.A.	9.3
FM - Front-Medium (30-60)	6441.5	N.A.	31.7
FH - Front-High (60-80)	5139.6	N.A.	25.3
FVH - Front-Very High (80-90)	183.5	N.A.	0.9
BL - Back-Low (0-30)	1639.9	N.A.	8.1
BM - Back-Medium (30-60)	3613.2	N.A.	17.8
BH - Back-High (60-80)	1360.2	N.A.	6.7
BVH - Back-Very High (80-90)	65.6	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	20336.7	N.A.	100.0
BUG Rating	B3-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>37.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
<b>0.0</b>	4044	4044	4044	4044	4044	4044	4044	4044	4044	4044
<b>2.5</b>	4029	4031	4038	4045	4060	4058	4071	4100	4106	4114
<b>5.0</b>	4084	4088	4096	4098	4110	4106	4117	4138	4140	4139
<b>7.5</b>	4143	4145	4152	4153	4163	4157	4166	4183	4177	4170
<b>10.0</b>	4202	4203	4211	4211	4220	4216	4221	4232	4222	4210
<b>12.5</b>	4269	4268	4271	4271	4282	4275	4282	4289	4276	4255
<b>15.0</b>	4331	4330	4335	4336	4349	4342	4348	4351	4336	4308
<b>17.5</b>	4396	4395	4401	4405	4422	4416	4423	4433	4405	4371
<b>20.0</b>	4460	4459	4469	4479	4503	4499	4510	4521	4492	4444
<b>22.5</b>	4520	4519	4536	4558	4594	4592	4616	4624	4589	4530
<b>25.0</b>	4575	4578	4600	4639	4693	4696	4729	4742	4701	4633
<b>27.5</b>	4622	4627	4662	4722	4804	4808	4855	4872	4824	4740
<b>30.0</b>	4660	4667	4720	4807	4919	4929	4991	5014	4953	4852
<b>32.5</b>	4687	4697	4770	4895	5040	5064	5137	5163	5088	4963
<b>35.0</b>	4703	4716	4811	4981	5170	5203	5295	5325	5228	5075
<b>37.5</b>	4719	4735	4855	5068	5311	5356	5471	5497	5374	5193
<b>40.0</b>	4733	4752	4900	5162	5473	5535	5662	5680	5521	5300
<b>42.5</b>	4741	4763	4945	5263	5634	5708	5869	5867	5670	5396
<b>45.0</b>	4721	4752	4971	5353	5800	5890	6074	6065	5808	5489
<b>47.5</b>	4692	4724	4984	5434	5972	6078	6294	6277	5955	5581
<b>50.0</b>	4708	4740	5020	5527	6151	6279	6528	6497	6113	5680
<b>52.5</b>	4791	4821	5101	5649	6353	6500	6785	6729	6291	5804
<b>55.0</b>	4945	4969	5245	5813	6579	6724	7022	6944	6475	5949
<b>57.5</b>	5173	5190	5445	6020	6786	6936	7209	7099	6608	6106
<b>60.0</b>	5464	5477	5712	6234	6954	7088	7332	7168	6614	6196
<b>62.5</b>	5782	5795	5985	6454	7115	7245	7475	7216	6441	6037
<b>65.0</b>	6083	6082	6221	6705	7431	7595	7870	7409	6130	5488
<b>67.5</b>	5836	5910	6298	7053	8151	8357	8558	7776	5893	4613
<b>70.0</b>	4428	4583	5512	7235	8885	8995	8676	7454	5542	4276
<b>72.5</b>	3259	3339	4205	6217	8037	7943	6838	6050	4583	3986
<b>75.0</b>	2516	2553	3123	4315	5534	5590	5123	4557	2699	2260
<b>77.5</b>	883	922	1319	2280	3467	3536	3712	2940	1378	926
<b>80.0</b>	334	342	445	830	1502	1599	1938	1876	840	418
<b>82.5</b>	195	193	244	429	737	810	1049	1215	377	218
<b>85.0</b>	87	95	122	181	304	344	486	616	137	117
<b>87.5</b>	13	13	25	39	65	77	120	128	38	44
<b>90.0</b>	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>
<b>0.0</b>	4044	4044	4044	4044	4044	4044	4044	4044	4044	4044
<b>2.5</b>	4109	4101	4111	4093	4079	4059	4028	4013	3984	3980
<b>5.0</b>	4126	4114	4119	4094	4072	4042	4004	3983	3950	3943
<b>7.5</b>	4150	4134	4135	4100	4069	4031	3985	3955	3917	3906
<b>10.0</b>	4182	4160	4156	4112	4071	4023	3969	3929	3884	3866
<b>12.5</b>	4219	4193	4186	4132	4079	4019	3953	3904	3849	3823
<b>15.0</b>	4265	4235	4222	4157	4094	4021	3941	3876	3805	3770
<b>17.5</b>	4318	4284	4265	4190	4116	4027	3927	3842	3751	3701
<b>20.0</b>	4382	4341	4317	4230	4142	4033	3910	3799	3682	3614
<b>22.5</b>	4457	4409	4378	4277	4170	4037	3883	3743	3594	3497
<b>25.0</b>	4541	4483	4445	4326	4196	4035	3847	3666	3484	3365
<b>27.5</b>	4631	4564	4521	4377	4218	4024	3790	3568	3358	3221

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**CANDELA TABULATION - (Cont.)**

30.0	4724	4648	4593	4426	4234	3997	3712	3451	3218	3069
32.5	4820	4734	4666	4473	4241	3951	3611	3304	3062	2922
35.0	4909	4813	4739	4517	4238	3885	3487	3151	2915	2785
37.5	4996	4893	4809	4557	4225	3805	3348	2999	2776	2666
40.0	5074	4963	4873	4591	4200	3710	3195	2854	2661	2555
42.5	5141	5023	4922	4613	4163	3603	3052	2731	2558	2451
45.0	5200	5074	4961	4618	4110	3481	2913	2618	2455	2303
47.5	5262	5123	4997	4605	4041	3352	2780	2509	2301	2069
50.0	5328	5178	5031	4577	3944	3197	2648	2376	2076	1770
52.5	5401	5236	5069	4512	3799	3018	2508	2196	1792	1522
55.0	5504	5312	5101	4402	3606	2801	2334	1963	1546	1405
57.5	5647	5419	5129	4252	3378	2553	2120	1708	1380	1272
60.0	5789	5528	5142	4081	3121	2274	1858	1481	1228	1075
62.5	5798	5554	5118	3899	2801	1986	1570	1279	1011	816
65.0	5447	5331	4976	3661	2430	1721	1331	1044	742	682
67.5	4508	4638	4530	3236	2039	1463	1124	755	620	589
70.0	3767	3713	3667	2640	1679	1178	814	593	522	489
72.5	3771	3287	2815	1909	1327	883	605	478	428	389
75.0	3445	3107	2243	1283	942	573	458	368	329	312
77.5	2223	2312	1660	841	558	376	331	263	232	226
80.0	918	1083	927	512	280	237	205	178	172	177
82.5	346	469	513	313	166	129	126	123	121	126
85.0	150	217	256	151	79	72	76	74	75	75
87.5	48	70	83	35	25	25	24	21	14	5
90.0	0	0	0	0	0	0	0	0	0	0

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

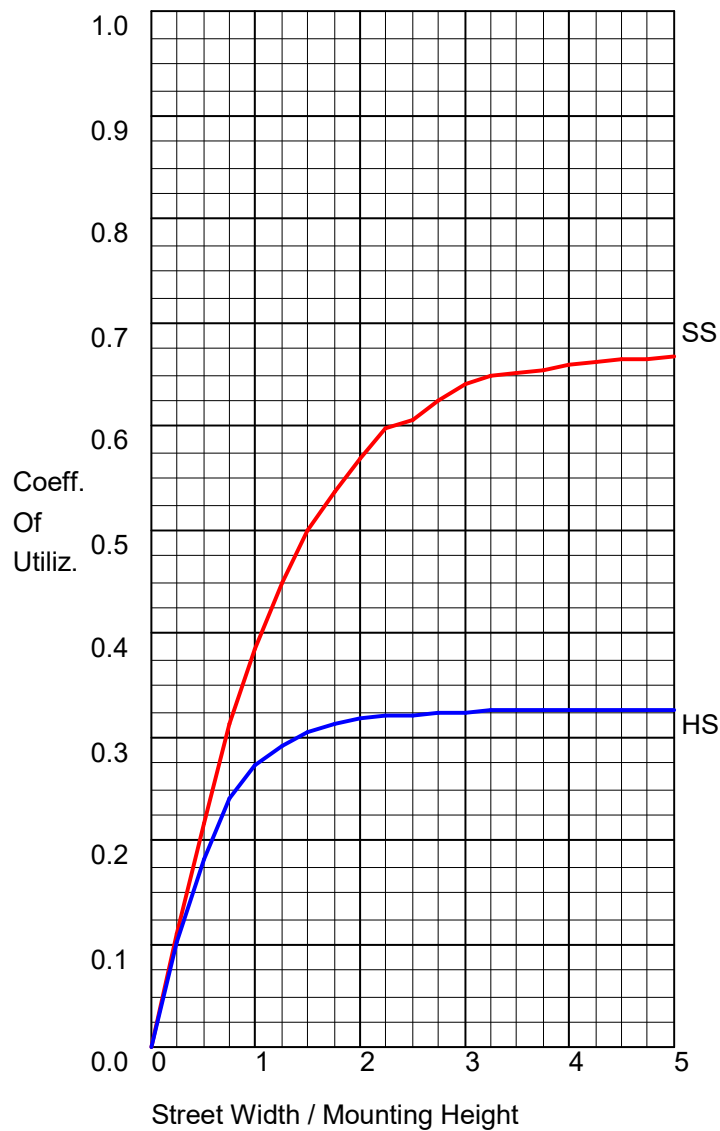
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	4044	4044
2.5	3963	3970
5.0	3924	3930
7.5	3885	3890
10.0	3845	3849
12.5	3796	3800
15.0	3736	3739
17.5	3659	3660
20.0	3560	3549
22.5	3429	3422
25.0	3286	3277
27.5	3135	3124
30.0	2982	2970
32.5	2837	2827
35.0	2708	2699
37.5	2597	2589
40.0	2497	2489
42.5	2380	2370
45.0	2184	2181
47.5	1907	1872
50.0	1607	1595
52.5	1453	1450
55.0	1363	1359
57.5	1171	1162
60.0	1028	1023
62.5	801	799
65.0	677	674

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	574	564
<b>70.0</b>	475	467
<b>72.5</b>	375	372
<b>75.0</b>	306	304
<b>77.5</b>	229	230
<b>80.0</b>	181	183
<b>82.5</b>	129	130
<b>85.0</b>	78	81
<b>87.5</b>	0	0
<b>90.0</b>	0	0

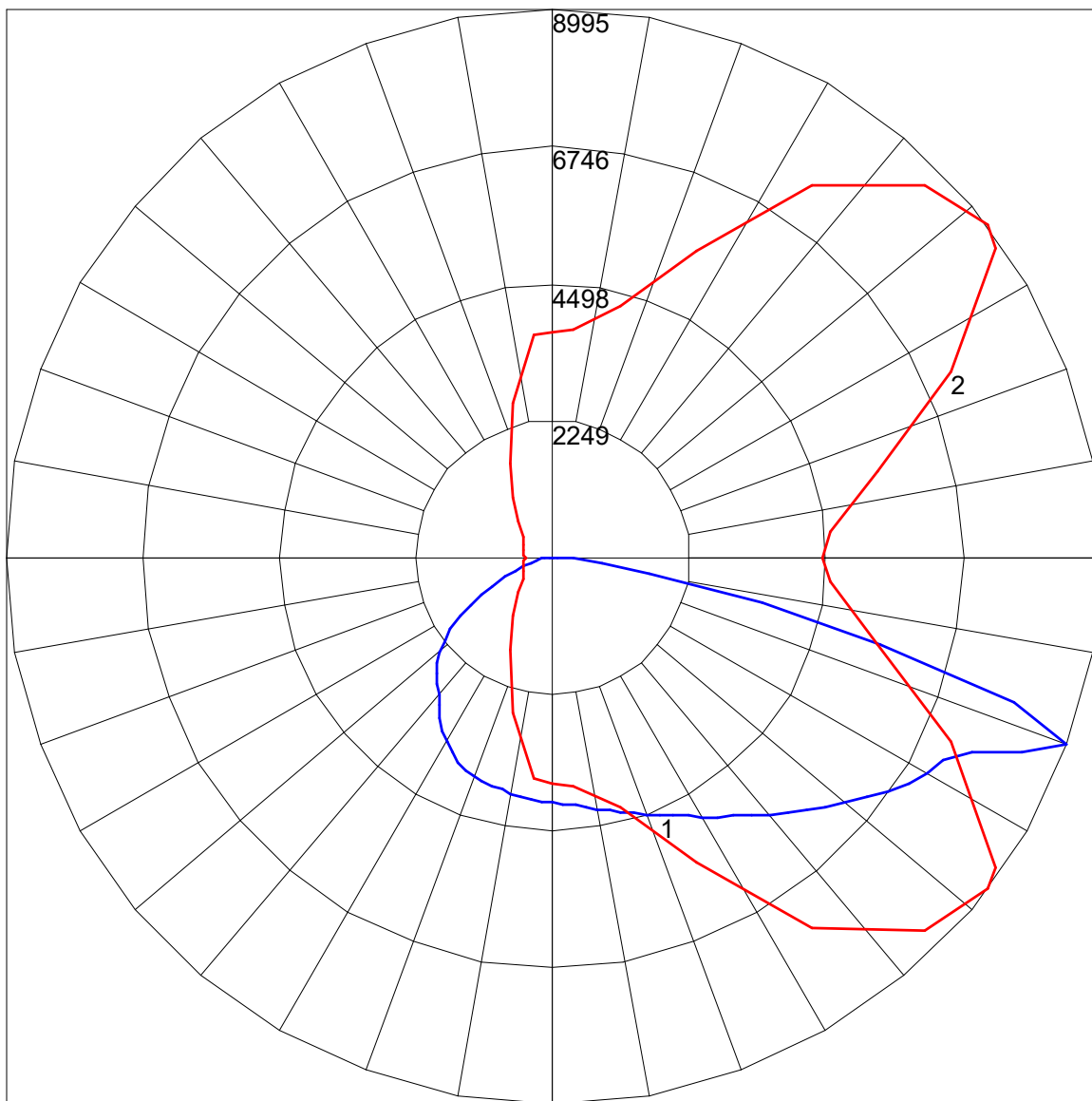
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

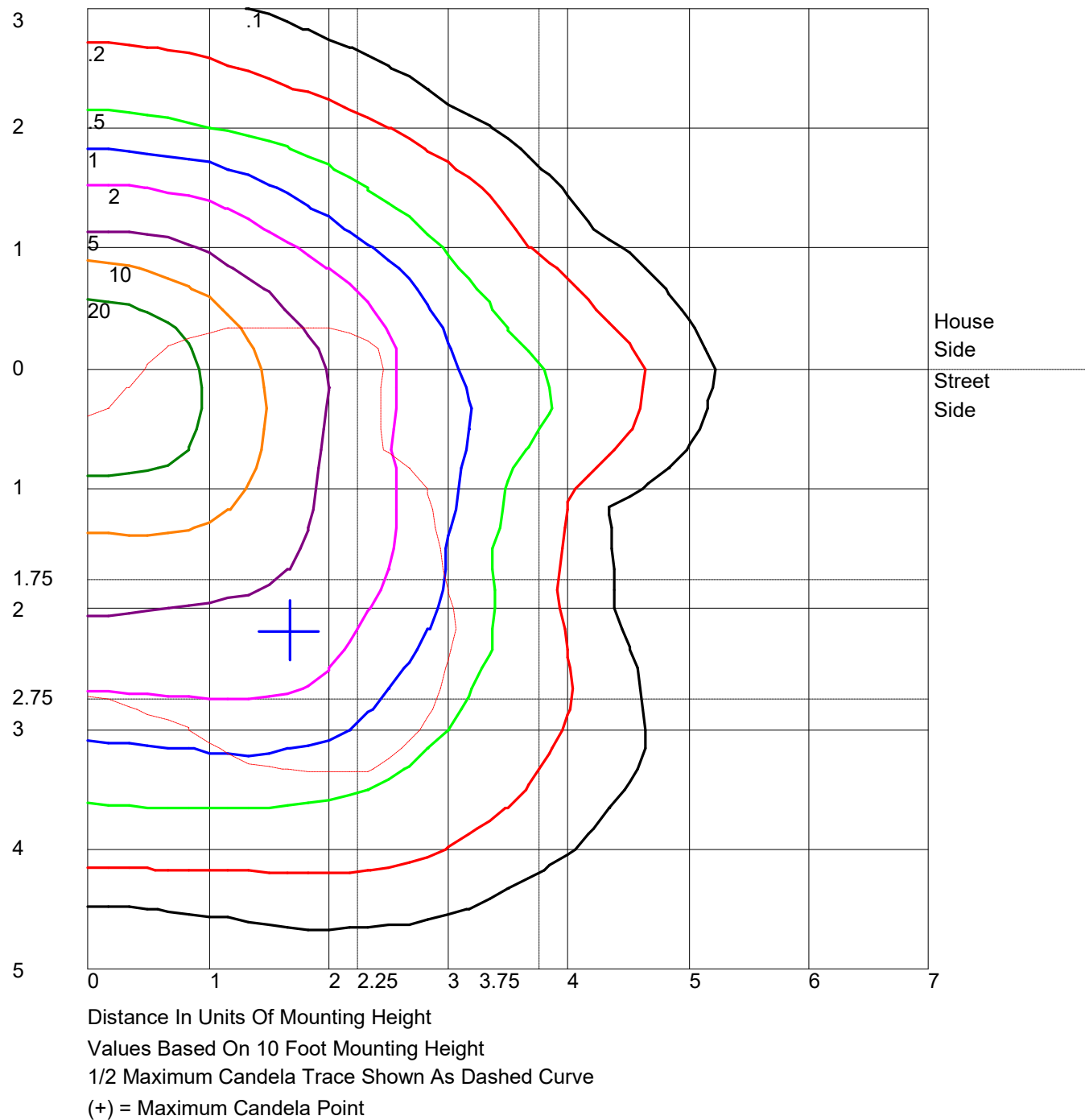
	Lumens	Percent Of Luminaire
Downward Street Side	13657.7	67.2
Downward House Side	6678.8	32.8
Downward Total	20336.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20336.5	100.0

POLAR GRAPH



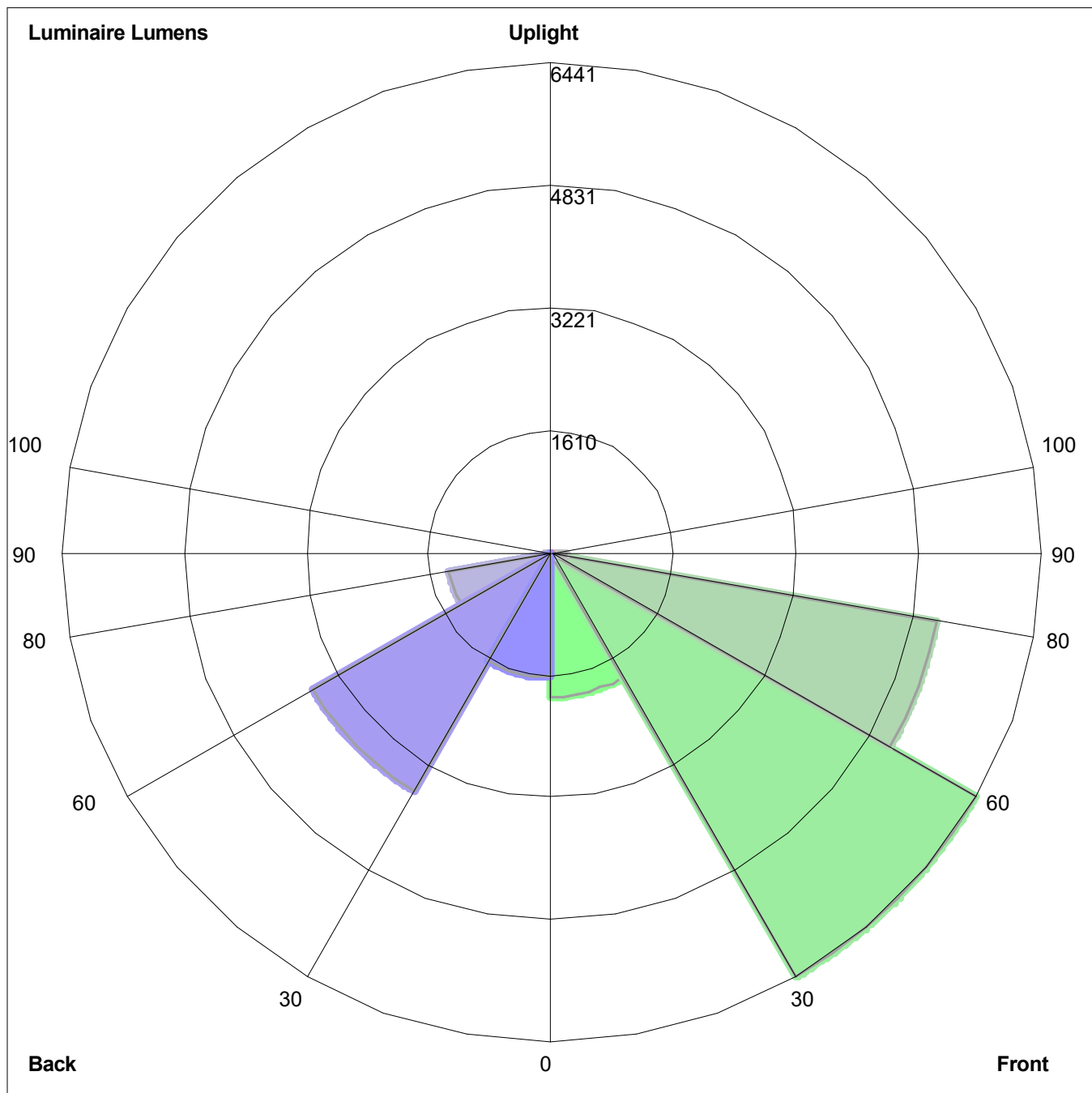
Maximum Candela = 8995 Located At Horizontal Angle = 37.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1893.2, Medium=6441.5, High=5139.6, Very High=183.5  
Back: Low=1639.9, Medium=3613.2, High=1360.2, Very High=65.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3