



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SLW-LED-20L-FT-UNV-DIM-40.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-40

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

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

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19827
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	155
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8769
Maximum Candela Angle	37.5H 70V
Maximum Candela (<90 Degrees Vertical)	8769
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	1889 (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)	1845.7	N.A.	9.3
FM - Front-Medium (30-60)	6279.9	N.A.	31.7
FH - Front-High (60-80)	5010.7	N.A.	25.3
FVH - Front-Very High (80-90)	178.9	N.A.	0.9
BL - Back-Low (0-30)	1598.8	N.A.	8.1
BM - Back-Medium (30-60)	3522.6	N.A.	17.8
BH - Back-High (60-80)	1326.1	N.A.	6.7
BVH - Back-Very High (80-90)	64.0	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	19826.7	N.A.	100.0
BUG Rating	B3-U0-G3		

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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>37.5</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>	3943	3943	3943	3943	3943	3943	3943	3943	3943	3943
<b>2.5</b>	3928	3930	3937	3944	3958	3956	3969	3997	4003	4011
<b>5.0</b>	3982	3985	3993	3995	4007	4003	4014	4034	4036	4035
<b>7.5</b>	4039	4041	4048	4049	4059	4053	4062	4078	4072	4065
<b>10.0</b>	4097	4098	4105	4105	4114	4110	4115	4126	4116	4104
<b>12.5</b>	4162	4161	4164	4164	4175	4168	4175	4181	4169	4148
<b>15.0</b>	4222	4221	4226	4227	4240	4233	4239	4242	4227	4200
<b>17.5</b>	4286	4285	4291	4295	4311	4305	4312	4322	4295	4261
<b>20.0</b>	4348	4347	4357	4367	4390	4386	4397	4408	4379	4333
<b>22.5</b>	4407	4406	4422	4444	4479	4477	4500	4508	4474	4416
<b>25.0</b>	4460	4463	4485	4523	4575	4578	4610	4623	4583	4517
<b>27.5</b>	4506	4511	4545	4604	4684	4687	4733	4750	4703	4621
<b>30.0</b>	4543	4550	4602	4686	4796	4805	4866	4888	4829	4730
<b>32.5</b>	4569	4579	4650	4772	4914	4937	5008	5034	4960	4839
<b>35.0</b>	4585	4598	4690	4856	5040	5073	5162	5191	5097	4948
<b>37.5</b>	4601	4616	4733	4941	5178	5222	5334	5359	5239	5063
<b>40.0</b>	4614	4633	4777	5033	5336	5396	5520	5538	5383	5167
<b>42.5</b>	4622	4644	4821	5131	5493	5565	5722	5720	5528	5261
<b>45.0</b>	4603	4633	4846	5219	5655	5742	5922	5913	5662	5351
<b>47.5</b>	4574	4606	4859	5298	5822	5926	6136	6120	5806	5441
<b>50.0</b>	4590	4621	4894	5388	5997	6122	6364	6334	5960	5538
<b>52.5</b>	4671	4700	4973	5507	6194	6337	6615	6560	6133	5658
<b>55.0</b>	4821	4844	5113	5667	6414	6555	6846	6770	6313	5800
<b>57.5</b>	5043	5060	5308	5869	6616	6762	7028	6921	6442	5953
<b>60.0</b>	5327	5340	5569	6078	6780	6910	7148	6988	6448	6041
<b>62.5</b>	5637	5650	5835	6292	6937	7063	7288	7035	6279	5886
<b>65.0</b>	5930	5929	6065	6537	7245	7405	7673	7223	5976	5350
<b>67.5</b>	5690	5762	6140	6876	7947	8147	8343	7581	5745	4497
<b>70.0</b>	4317	4468	5374	7054	8662	8769	8458	7267	5403	4169
<b>72.5</b>	3177	3255	4100	6061	7835	7744	6667	5898	4468	3886
<b>75.0</b>	2453	2489	3045	4207	5395	5450	4995	4443	2631	2203
<b>77.5</b>	861	899	1286	2223	3380	3447	3619	2866	1343	903
<b>80.0</b>	326	333	434	809	1464	1559	1889	1829	819	408
<b>82.5</b>	190	188	238	418	719	790	1023	1185	368	213
<b>85.0</b>	85	93	119	176	296	335	474	601	134	114
<b>87.5</b>	13	13	24	38	63	75	117	125	37	43
<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>	3943	3943	3943	3943	3943	3943	3943	3943	3943	3943
<b>2.5</b>	4006	3998	4008	3990	3977	3957	3927	3912	3884	3880
<b>5.0</b>	4023	4011	4016	3991	3970	3941	3904	3883	3851	3844
<b>7.5</b>	4046	4030	4031	3997	3967	3930	3885	3856	3819	3808
<b>10.0</b>	4077	4056	4052	4009	3969	3922	3869	3830	3787	3769
<b>12.5</b>	4113	4088	4081	4028	3977	3918	3854	3806	3752	3727
<b>15.0</b>	4158	4129	4116	4053	3991	3920	3842	3779	3710	3675
<b>17.5</b>	4210	4177	4158	4085	4013	3926	3829	3746	3657	3608
<b>20.0</b>	4272	4232	4209	4124	4038	3932	3812	3704	3590	3523
<b>22.5</b>	4345	4298	4268	4170	4065	3936	3786	3649	3504	3409
<b>25.0</b>	4427	4371	4334	4218	4091	3934	3751	3574	3397	3281
<b>27.5</b>	4515	4450	4408	4267	4112	3923	3695	3479	3274	3140

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**CANDELA TABULATION - (Cont.)**

30.0	4606	4531	4478	4315	4128	3897	3619	3364	3137	2992
32.5	4699	4615	4549	4361	4135	3852	3520	3221	2985	2849
35.0	4786	4692	4620	4404	4132	3788	3400	3072	2842	2715
37.5	4871	4770	4688	4443	4119	3710	3264	2924	2706	2599
40.0	4947	4839	4751	4476	4095	3617	3115	2782	2594	2491
42.5	5012	4897	4799	4497	4059	3513	2975	2663	2494	2390
45.0	5070	4947	4837	4502	4007	3394	2840	2552	2393	2245
47.5	5130	4995	4872	4490	3940	3268	2710	2446	2243	2017
50.0	5194	5048	4905	4462	3845	3117	2582	2316	2024	1726
52.5	5266	5105	4942	4399	3704	2942	2445	2141	1747	1484
55.0	5366	5179	4973	4292	3516	2731	2275	1914	1507	1370
57.5	5505	5283	5000	4145	3293	2489	2067	1665	1345	1240
60.0	5644	5389	5013	3979	3043	2217	1811	1444	1197	1048
62.5	5653	5415	4990	3801	2731	1936	1531	1247	986	796
65.0	5310	5197	4851	3569	2369	1678	1298	1018	723	665
67.5	4395	4522	4416	3155	1988	1426	1096	736	604	574
70.0	3673	3620	3575	2574	1637	1148	794	578	509	477
72.5	3676	3205	2744	1861	1294	861	590	466	417	379
75.0	3359	3029	2187	1251	918	559	447	359	321	304
77.5	2167	2254	1618	820	544	367	323	256	226	220
80.0	895	1056	904	499	273	231	200	174	168	173
82.5	337	457	500	305	162	126	123	120	118	123
85.0	146	212	250	147	77	70	74	72	73	73
87.5	47	68	81	34	24	24	23	20	14	5
90.0	0	0	0	0	0	0	0	0	0	0

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

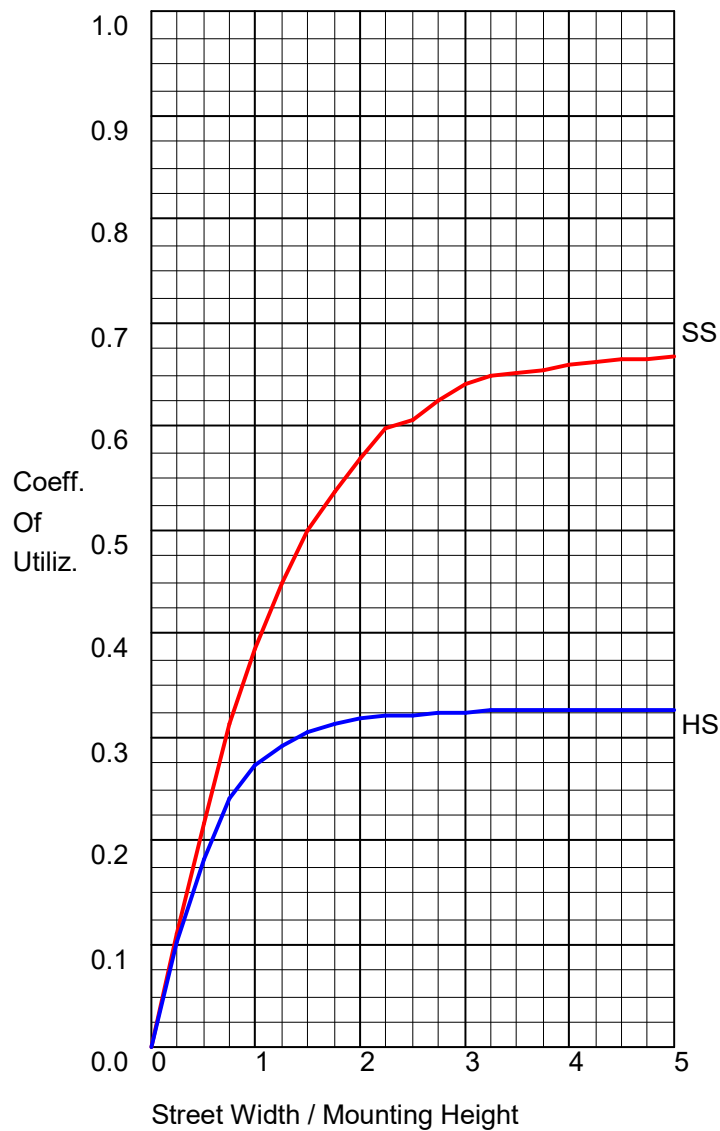
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	3943	3943
2.5	3864	3870
5.0	3826	3831
7.5	3788	3792
10.0	3749	3752
12.5	3701	3705
15.0	3642	3645
17.5	3567	3568
20.0	3471	3460
22.5	3343	3336
25.0	3204	3195
27.5	3056	3046
30.0	2907	2896
32.5	2766	2756
35.0	2640	2631
37.5	2532	2524
40.0	2434	2427
42.5	2320	2311
45.0	2129	2126
47.5	1859	1825
50.0	1567	1555
52.5	1417	1414
55.0	1329	1325
57.5	1142	1133
60.0	1002	997
62.5	781	779
65.0	660	657

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	560	550
<b>70.0</b>	463	455
<b>72.5</b>	366	363
<b>75.0</b>	298	296
<b>77.5</b>	223	224
<b>80.0</b>	176	178
<b>82.5</b>	126	127
<b>85.0</b>	76	79
<b>87.5</b>	0	0
<b>90.0</b>	0	0

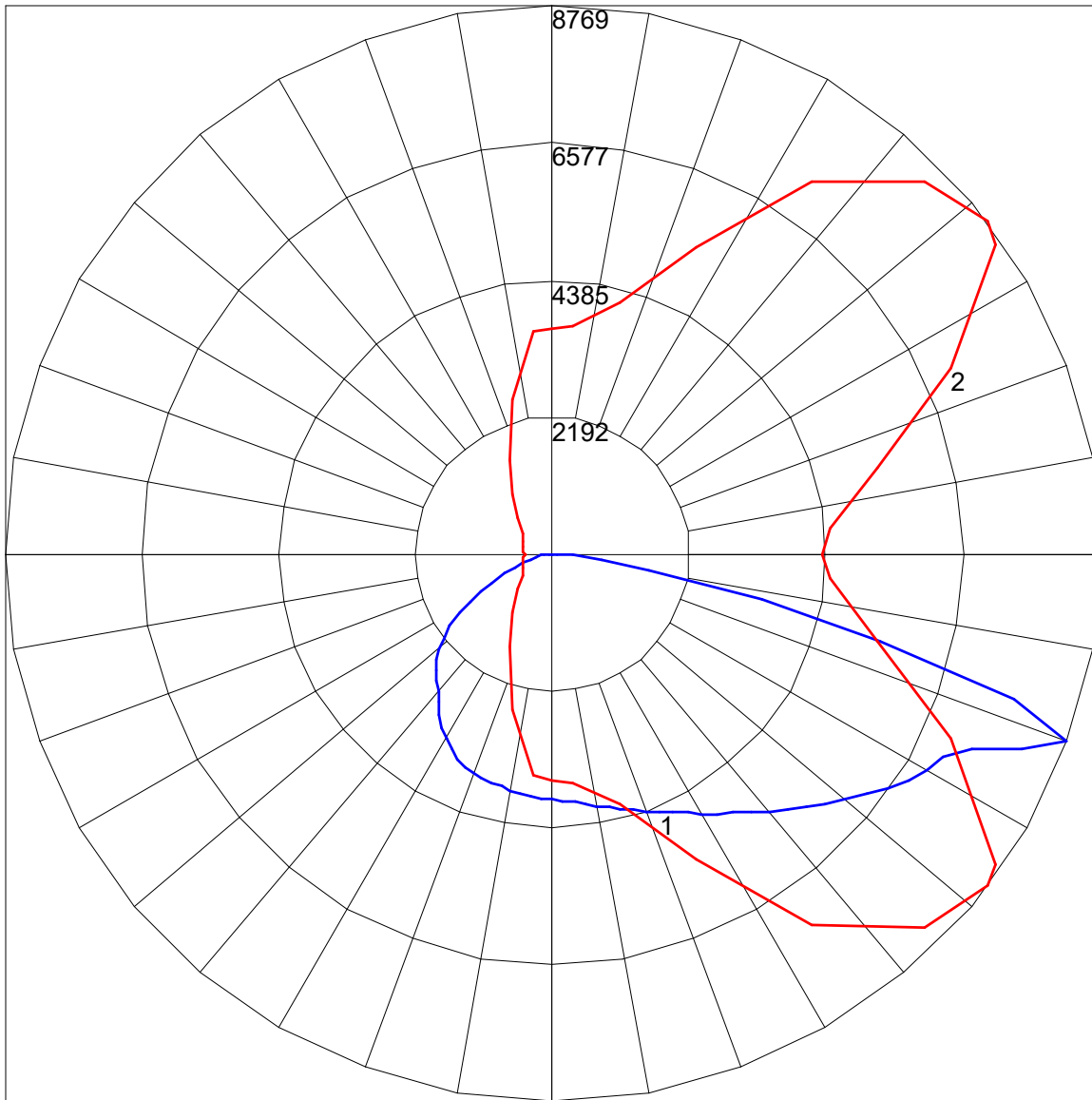
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

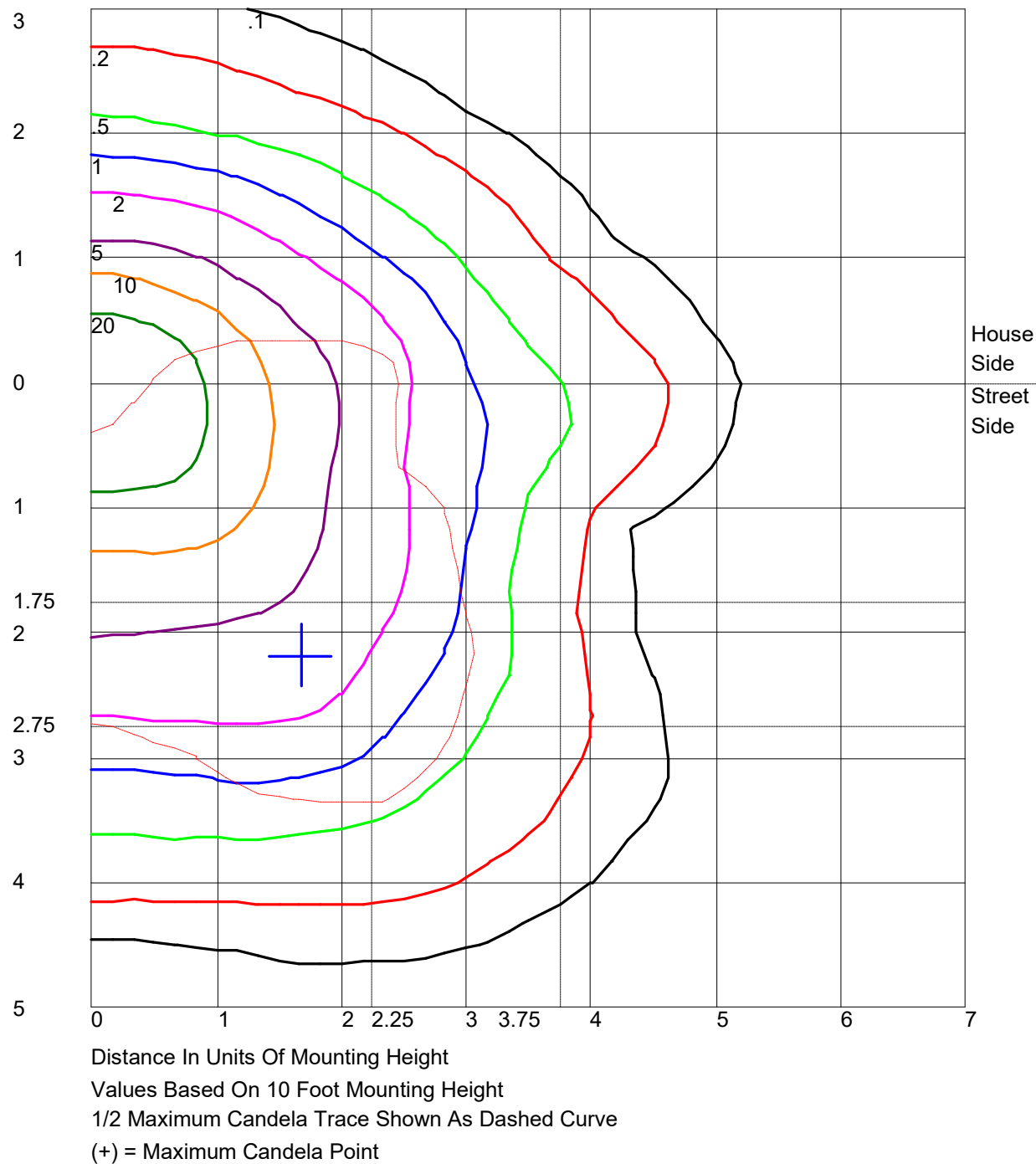
	Lumens	Percent Of Luminaire
Downward Street Side	13315.2	67.2
Downward House Side	6511.4	32.8
Downward Total	19826.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	19826.6	100.0

POLAR GRAPH



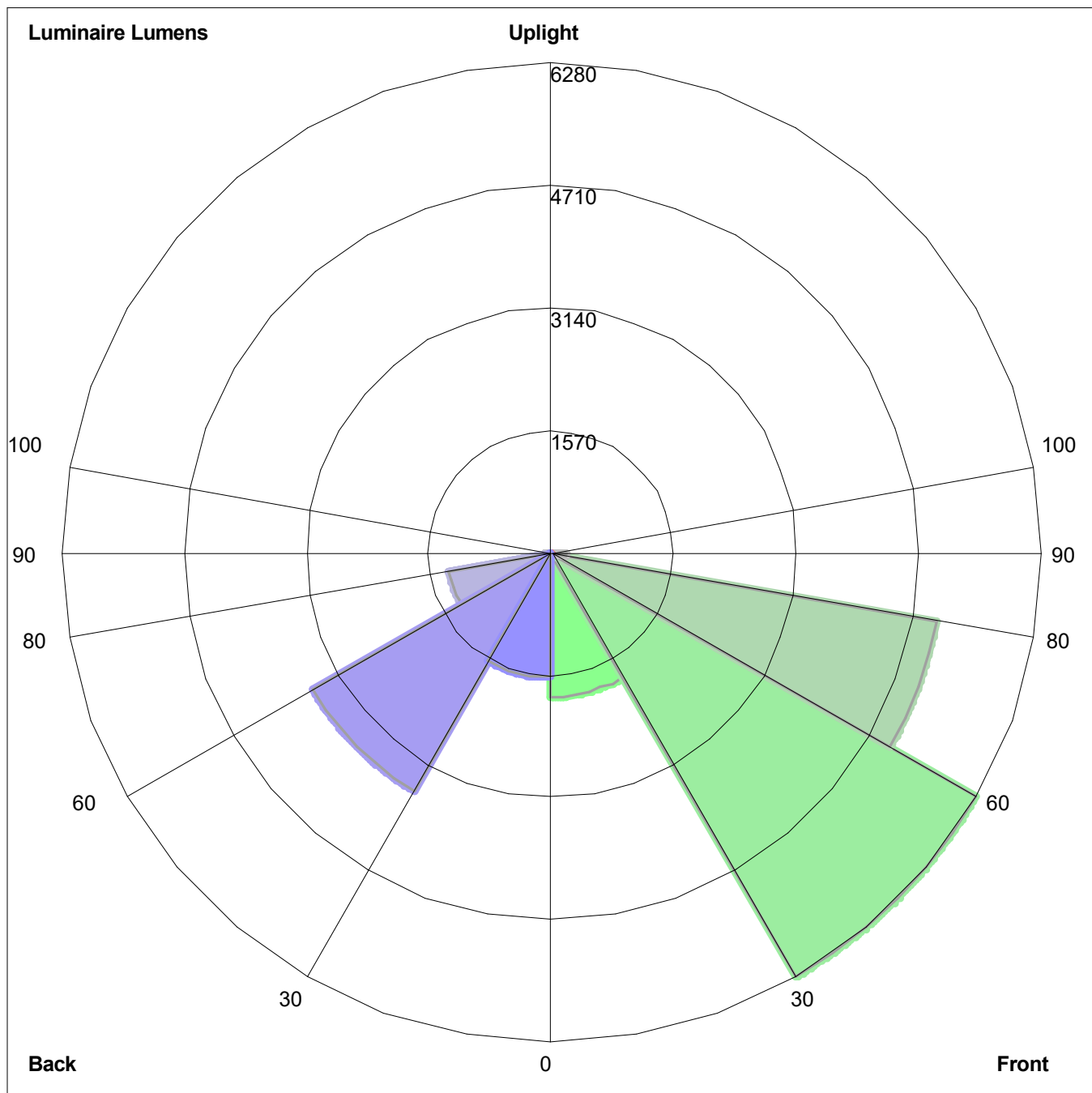
Maximum Candela = 8769 Located At Horizontal Angle = 37.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1845.7, Medium=6279.9, High=5010.7, Very High=178.9  
Back: Low=1598.8, Medium=3522.6, High=1326.1, Very High=64.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3