IES ROAD REPORT
PHOTOMETRIC FILENAME : CRUS-SCFT-LED-VHO-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13599
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 09/01/22
[TESTDATE] 08/17/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS-SCFT-LED-VHO-40
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[_FACTORED] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_COLORTEMP] 4000
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22598
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	152
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9590
Maximum Candela Angle	35H 70V
Maximum Candela (<90 Degrees Vertical)	9590
Maximum Candela Angle (<90 Degrees Vertical)	35H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2584 (11.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2282.6	N.A.	10.1
FM - Front-Medium (30-60)	7736.3	N.A.	34.2
FH - Front-High (60-80)	4756.1	N.A.	21.0
FVH - Front-Very High (80-90)	259.3	N.A.	1.1
BL - Back-Low (0-30)	1819.4	N.A.	8.1
BM - Back-Medium (30-60)	4223.0	N.A.	18.7
BH - Back-High (60-80)	1345.9	N.A.	6.0
BVH - Back-Very High (80-90)	175.5	N.A.	0.8
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	22598.1	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	32.5	35.0	45.0	55.0	65.0	75.0
0.0	4636	4636	4636	4636	4636	4636	4636	4636	4636	4636
2.5	4740	4725	4718	4713	4715	4717	4705	4695	4687	4670
5.0	4876	4859	4850	4845	4835	4835	4811	4786	4762	4724
7.5	5003	4984	4989	4969	4956	4953	4922	4886	4847	4792
10.0	5119	5100	5104	5091	5073	5070	5037	4993	4943	4871
12.5	5228	5213	5214	5204	5187	5185	5153	5106	5048	4966
15.0	5341	5317	5316	5311	5297	5301	5268	5225	5162	5071
17.5	5441	5414	5415	5412	5402	5408	5388	5344	5286	5180
20.0	5533	5506	5507	5510	5502	5509	5498	5463	5410	5300
22.5	5602	5577	5583	5598	5602	5606	5607	5597	5543	5438
25.0	5651	5625	5638	5671	5696	5705	5723	5726	5689	5590
27.5	5686	5665	5689	5739	5780	5797	5840	5867	5861	5765
30.0	5730	5714	5750	5809	5871	5891	5971	6029	6047	5970
32.5	5786	5778	5825	5896	5976	6008	6119	6222	6267	6201
35.0	5842	5838	5903	6008	6102	6144	6298	6466	6545	6499
37.5	5899	5899	5987	6126	6252	6312	6538	6799	6907	6798
40.0	5957	5957	6070	6253	6432	6520	6879	7201	7202	6874
42.5	6024	6023	6158	6401	6652	6805	7291	7516	7289	6725
45.0	6095	6089	6256	6576	6958	7159	7688	7693	7305	6667
47.5	6161	6151	6370	6828	7337	7550	7932	7750	7382	6759
50.0	6252	6248	6538	7177	7697	7834	7952	7808	7568	6951
52.5	6382	6387	6713	7370	7615	7658	7838	7984	7814	7146
55.0	6049	6085	6388	6761	6969	7093	7799	8220	8013	7246
57.5	5471	5491	5717	6043	6614	6934	8049	8437	8049	7115
60.0	5465	5503	5729	6274	7198	7514	8366	8534	7778	6621
62.5	5971	5986	6164	6648	7343	7713	8751	8334	7107	5801
65.0	5205	5194	5534	6601	7794	8285	8968	7641	6023	4687
67.5	5342	5303	5367	6625	8288	8814	8690	6366	4620	3257
70.0	5772	5780	6067	7857	9466	9590	7479	4643	2939	1967
72.5	5217	5290	5836	7901	8976	8652	5534	2649	1688	1170
75.0	3744	3854	4451	6177	6619	6326	3493	1565	1107	871
77.5	2394	2432	3018	4230	4144	3917	1997	1034	788	665
80.0	1395	1411	1851	2584	2483	2270	1065	742	577	490
82.5	810	814	1025	1314	1265	1126	687	516	395	349
85.0	407	417	505	600	608	556	420	320	241	219
87.5	169	161	201	233	235	212	211	155	108	91
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	85.0	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0
0.0	4636	4636	4636	4636	4636	4636	4636	4636	4636	4636
2.5	4654	4650	4643	4624	4613	4604	4597	4581	4576	4561
5.0	4688	4671	4653	4610	4576	4543	4516	4479	4464	4440
7.5	4739	4707	4677	4607	4546	4489	4438	4382	4339	4317
10.0	4797	4756	4711	4611	4521	4435	4360	4282	4231	4201
12.5	4868	4811	4757	4625	4501	4386	4283	4192	4132	4089
15.0	4952	4880	4812	4645	4483	4334	4209	4109	4052	4023
17.5	5042	4955	4870	4664	4458	4276	4141	4046	4006	3995
20.0	5144	5038	4935	4684	4430	4225	4081	4004	3991	4003
22.5	5262	5137	5011	4706	4408	4179	4038	3989	4012	4045
25.0	5394	5251	5099	4737	4386	4137	4009	4008	4058	4091
27.5	5554	5390	5210	4778	4370	4101	4002	4045	4100	4114

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CANDELA TABULATION - (Cont.)

30.0	5750	5569	5355	4838	4365	4075	4014	4082	4106	4101
32.5	5984	5804	5550	4944	4391	4071	4043	4099	4079	4055
35.0	6271	6071	5810	5125	4480	4117	4075	4083	4023	3973
37.5	6494	6271	5997	5318	4655	4250	4130	4050	3952	3847
40.0	6373	6100	5824	5232	4720	4452	4248	4020	3841	3680
42.5	6068	5733	5381	4827	4479	4481	4424	4022	3708	3497
45.0	5910	5506	5053	4364	4106	4266	4413	4054	3568	3296
47.5	5913	5421	4849	3925	3670	3943	4220	3995	3445	3120
50.0	5975	5378	4678	3542	3200	3504	3919	3791	3331	2942
52.5	6015	5298	4483	3147	2684	3003	3558	3503	3161	2761
55.0	5928	5095	4197	2728	2250	2487	3044	3175	2940	2572
57.5	5600	4673	3714	2236	1869	2060	2557	2844	2686	2351
60.0	5004	4017	3117	1772	1548	1688	2129	2515	2436	2137
62.5	4102	3215	2445	1377	1301	1405	1747	2219	2231	1950
65.0	3100	2362	1733	1082	1116	1210	1475	1958	2087	1807
67.5	2083	1580	1200	907	978	1077	1291	1737	1973	1699
70.0	1309	1055	908	791	866	947	1137	1540	1857	1640
72.5	916	807	764	691	762	837	998	1350	1736	1599
75.0	701	628	614	595	645	731	882	1198	1585	1570
77.5	527	476	469	500	542	623	749	1018	1334	1447
80.0	389	348	351	401	438	502	584	768	1024	1137
82.5	266	242	250	300	328	374	466	519	712	835
85.0	168	153	163	197	214	259	337	319	404	520
87.5	79	74	77	94	109	149	182	171	182	217
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	4636	4636
2.5	4568	4547
5.0	4439	4418
7.5	4310	4290
10.0	4189	4167
12.5	4081	4060
15.0	4018	3999
17.5	3997	3978
20.0	4019	4003
22.5	4060	4044
25.0	4100	4084
27.5	4116	4097
30.0	4091	4072
32.5	4031	4010
35.0	3927	3904
37.5	3768	3744
40.0	3580	3555
42.5	3386	3363
45.0	3194	3180
47.5	3022	3011
50.0	2840	2815
52.5	2656	2634
55.0	2453	2446
57.5	2239	2229
60.0	2041	2031
62.5	1883	1872
65.0	1755	1739

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CANDELA TABULATION - (Cont.)

67.5	1640	1621
70.0	1632	1627
72.5	1598	1585
75.0	1468	1453
77.5	1275	1244
80.0	947	937
82.5	634	608
85.0	375	346
87.5	175	162
90.0	0	0

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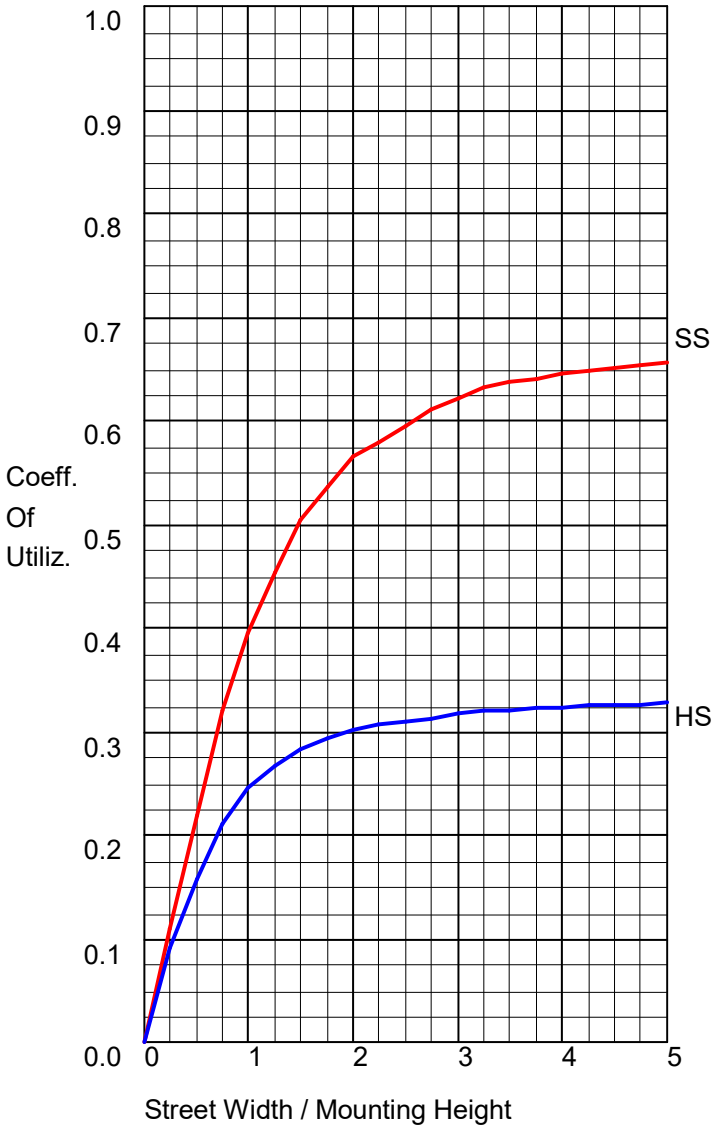
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15034.4	66.5
Downward House Side	7563.9	33.5
Downward Total	22598.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22598.3	100.0

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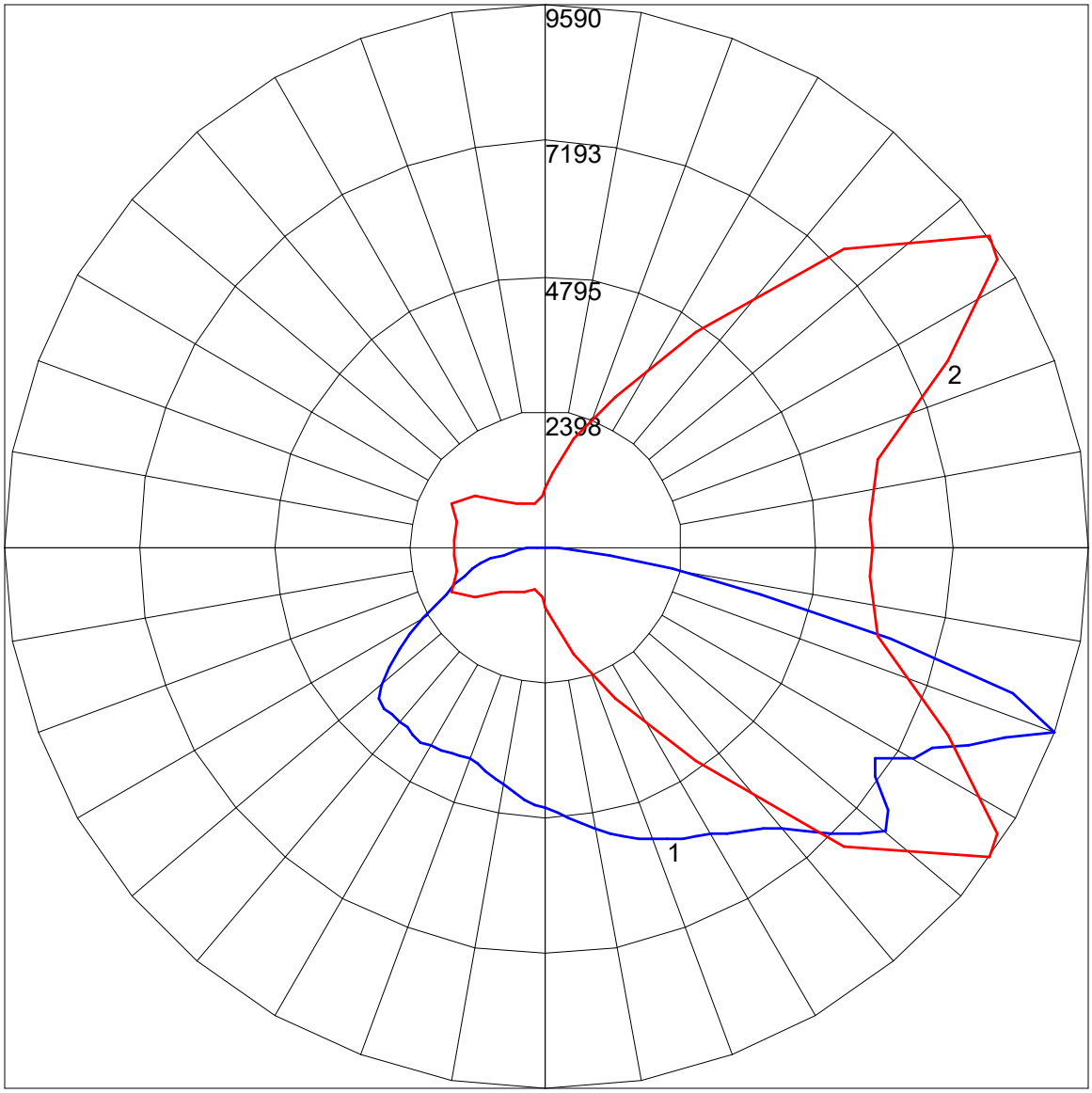
POLAR GRAPH



Maximum Candela = 9590 Located At Horizontal Angle = 35, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

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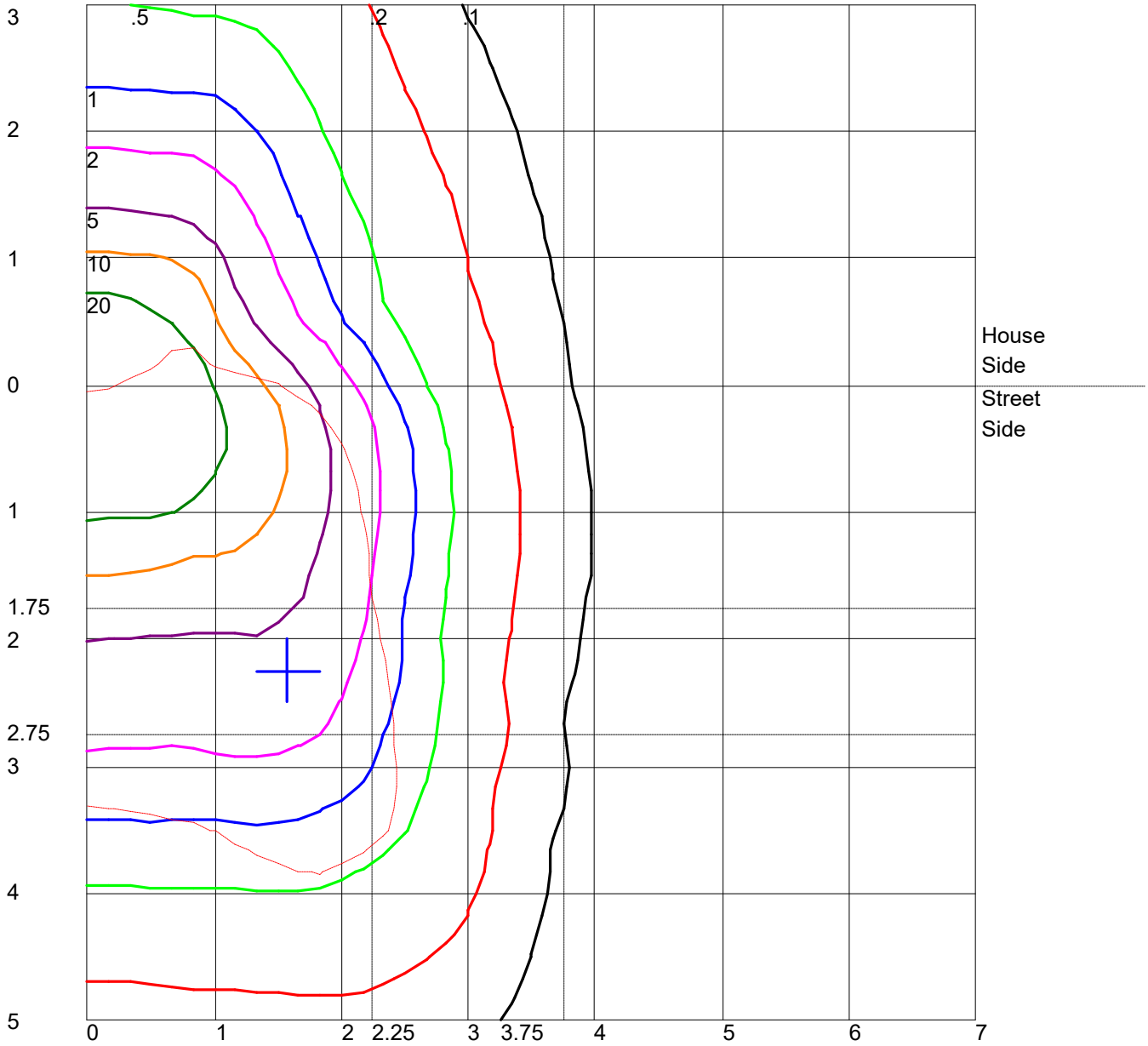
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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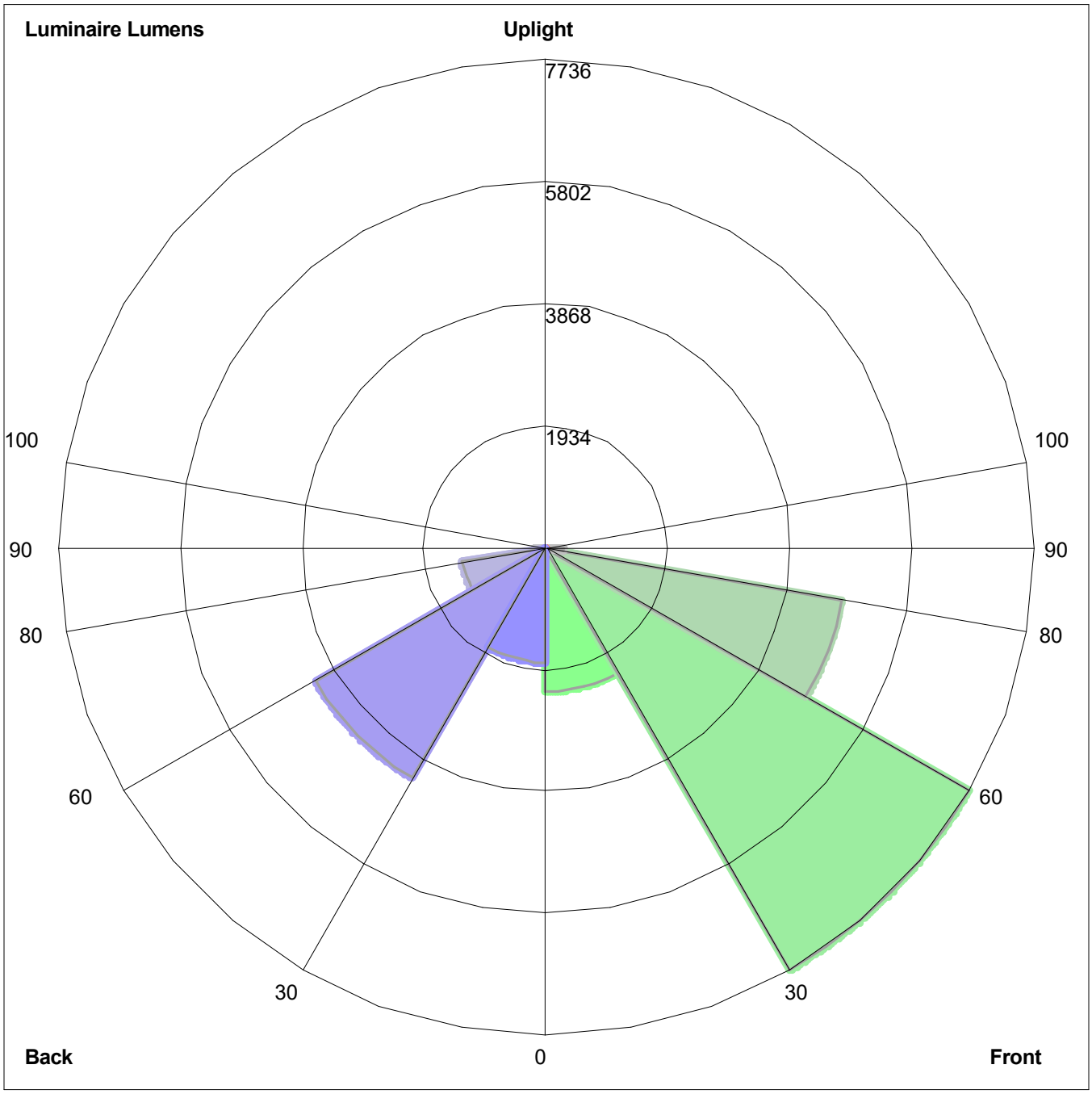
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2282.6, Medium=7736.3, High=4756.1, Very High=259.3
Back: Low=1819.4, Medium= 4223.0, High=1345.9, Very High=175.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3

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