

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-3-LED-SS-NW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7309
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/29/15
[TEST DATE]09/29/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-3-LED-SS-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]30512
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30512
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	429.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20577
Maximum Candela Angle	5H 35V
Maximum Candela (<90 Degrees Vertical)	20577
Maximum Candela Angle (<90 Degrees Vertical)	5H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2025 (6.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4249.0	N.A.	13.9
FM - Front-Medium (30-60)	13069.6	N.A.	42.8
FH - Front-High (60-80)	7167.0	N.A.	23.5
FVH - Front-Very High (80-90)	232.4	N.A.	0.8
BL - Back-Low (0-30)	2741.4	N.A.	9.0
BM - Back-Medium (30-60)	2137.7	N.A.	7.0
BH - Back-High (60-80)	904.3	N.A.	3.0
BVH - Back-Very High (80-90)	10.9	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30512.3	N.A.	100.0
BUG Rating	B4-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	2.5	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0
0.0	10720	10720	10720	10720	10720	10720	10720	10720	10720	10720
2.5	10934	10959	10957	10961	10931	10923	10882	10874	10853	10818
5.0	11144	11169	11166	11129	11021	10922	10790	10712	10665	10601
7.5	11682	11693	11695	11547	11149	10812	10749	10683	10564	10486
10.0	11188	11182	11185	11141	11170	11289	11167	10582	10355	10127
12.5	10879	10885	10871	10748	10714	10871	10899	10603	9755	9569
15.0	10905	10919	10899	10750	10579	10488	10365	9975	9288	8841
17.5	11087	11115	11125	10980	10687	10279	9842	9202	8651	8026
20.0	12569	12493	12531	11750	10974	10174	9339	8415	7781	7248
22.5	13851	13730	13773	13305	12333	10444	8826	7687	7025	6522
25.0	15448	15613	15560	14731	13468	11370	8556	7080	6489	6074
27.5	17047	17259	17164	16551	14435	11890	8915	6801	6286	6003
30.0	18653	18807	18709	17797	15124	11922	9005	6926	6219	5986
32.5	20112	20404	20333	19049	15254	11625	9158	7269	6202	5928
35.0	20294	20536	20577	19246	14860	11438	9332	7754	6243	5913
37.5	19913	20140	20077	18300	14221	11197	9567	8193	6467	6079
40.0	19684	19980	19946	17497	13042	10925	9935	8622	6828	6392
42.5	19677	19858	19735	16889	12349	10530	10200	9192	7453	6599
45.0	18922	19211	19084	15982	11892	10396	10209	9938	8173	6852
47.5	18983	19233	19118	15399	11174	10548	10197	10625	9068	6981
50.0	18733	19032	18900	15234	11033	10656	10619	11166	10008	7378
52.5	18253	18531	18389	14621	11066	10882	11158	11735	11204	8096
55.0	17075	17289	17083	14193	10823	11035	11734	12498	12449	8980
57.5	15932	16118	15903	12808	10141	10959	12562	13684	13712	10095
60.0	13936	13938	13876	11149	9258	10896	13233	14784	15178	11097
62.5	10770	10552	10474	8382	7914	10421	14049	15760	16139	11732
65.0	6325	6104	6032	4862	5887	9409	14214	16447	15799	11483
67.5	3728	3697	3517	2703	3544	7907	13583	15453	14571	10788
70.0	2740	2892	2886	2096	2655	6202	12358	13300	12602	9373
72.5	1270	1369	1460	1155	2535	5294	10342	11124	9889	6788
75.0	1064	1080	1077	913	2004	4296	7914	7748	5951	4168
77.5	1021	1011	1001	855	1251	2835	4975	4179	2739	1888
80.0	976	961	949	812	770	1623	2025	1601	994	820
82.5	906	892	881	753	584	645	664	518	337	258
85.0	796	780	765	607	457	408	355	199	136	92
87.5	637	635	620	490	389	359	307	160	100	64
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	10720	10720	10720	10720	10720	10720	10720	10720	10720	10720
2.5	10796	10781	10727	10697	10635	10593	10521	10558	10542	10518
5.0	10522	10483	10392	10268	10094	9942	9776	9780	9723	9734
7.5	10378	10313	10183	9922	9573	9299	9113	9115	9170	9259
10.0	9950	9850	9690	9313	8954	8817	8744	8482	8236	8386
12.5	9324	9190	8983	8488	8261	8251	7852	8012	8162	8369
15.0	8576	8395	8203	7717	7679	7414	7617	7991	8195	8416
17.5	7735	7584	7351	6946	6837	6921	7404	7881	8128	8274
20.0	6865	6717	6429	6155	6070	6475	7047	7556	7768	7721
22.5	6137	6003	5733	5493	5342	5896	6524	6953	6725	6067
25.0	5717	5591	5353	4924	4869	5326	5750	5631	5137	4650
27.5	5508	5359	5133	4659	4561	4734	4627	4149	3709	3153

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CANDELA TABULATION - (Cont.)

30.0	5497	5317	5051	4553	4386	4185	3436	2924	2330	1793
32.5	5532	5347	5033	4389	4247	3485	2481	1819	1195	888
35.0	5538	5365	5046	4239	4073	2861	1703	929	631	568
37.5	5775	5455	5089	4197	3809	2201	1055	461	430	465
40.0	6161	5605	5193	4271	3333	1615	648	313	304	426
42.5	6370	5866	5376	4365	2993	1094	470	264	228	354
45.0	6396	5891	5456	4513	2498	690	408	229	186	239
47.5	6391	6075	5724	4730	2060	457	394	202	160	172
50.0	6916	6583	6193	4922	1604	370	375	179	145	145
52.5	7578	7203	6788	4954	1207	347	335	162	129	125
55.0	8244	7846	7475	5163	965	326	285	141	112	107
57.5	8849	8453	8092	5112	776	302	252	115	101	95
60.0	9145	8775	8753	4954	620	246	255	98	89	82
62.5	9040	8645	8686	4456	546	179	245	85	79	73
65.0	8277	7774	7783	3682	456	147	190	73	70	64
67.5	7370	6917	6869	3059	380	128	144	63	59	52
70.0	6159	5752	5713	2307	265	117	102	52	45	36
72.5	4131	3871	3891	1486	219	101	75	40	31	16
75.0	2398	2247	2288	696	142	80	50	24	9	0
77.5	1022	933	911	291	99	59	29	12	4	0
80.0	402	373	347	102	61	36	20	10	3	0
82.5	139	109	104	50	33	24	16	9	3	0
85.0	52	39	34	25	19	17	11	7	2	0
87.5	32	23	21	18	15	11	5	2	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

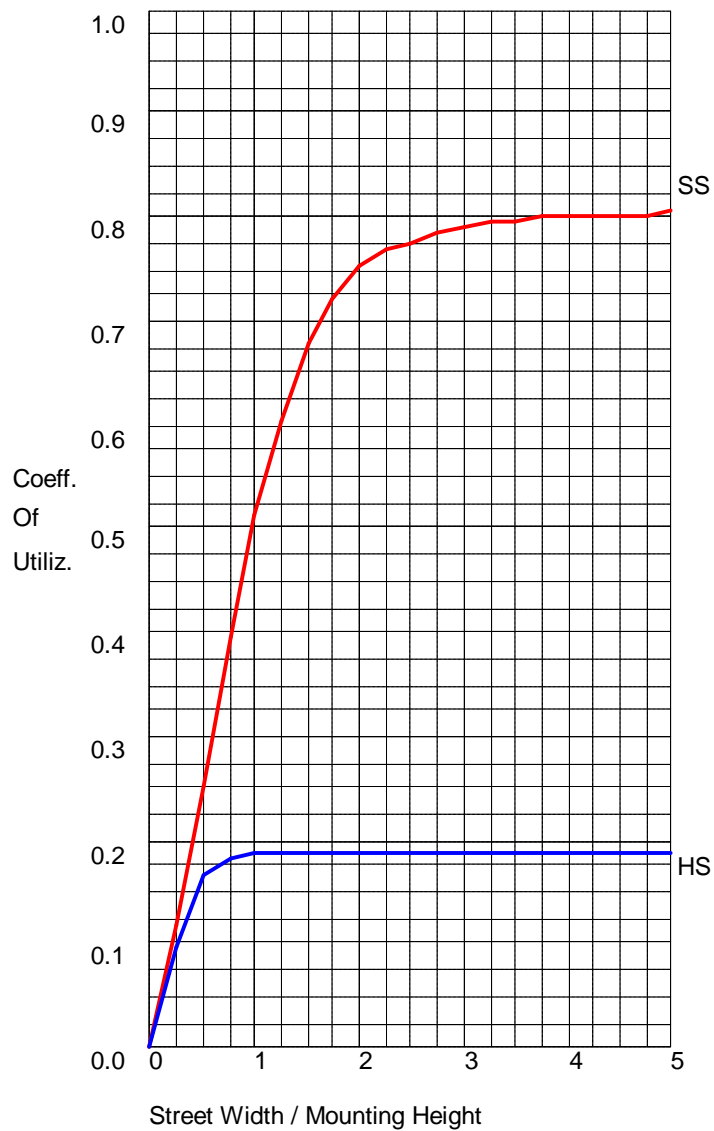
	<u>175.0</u>	<u>180.0</u>
0.0	10720	10720
2.5	10501	10509
5.0	9765	9773
7.5	9346	9362
10.0	8515	8540
12.5	8526	8552
15.0	8590	8612
17.5	8417	8428
20.0	7748	7790
22.5	6001	6054
25.0	4541	4603
27.5	3015	2930
30.0	1705	1675
32.5	1001	1054
35.0	781	850
37.5	616	683
40.0	540	618
42.5	495	587
45.0	413	502
47.5	333	407
50.0	204	236
52.5	157	168
55.0	136	145
57.5	122	129
60.0	104	109
62.5	85	91
65.0	71	74

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CANDELA TABULATION - (Cont.)

67.5	54	55
70.0	31	32
72.5	5	6
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

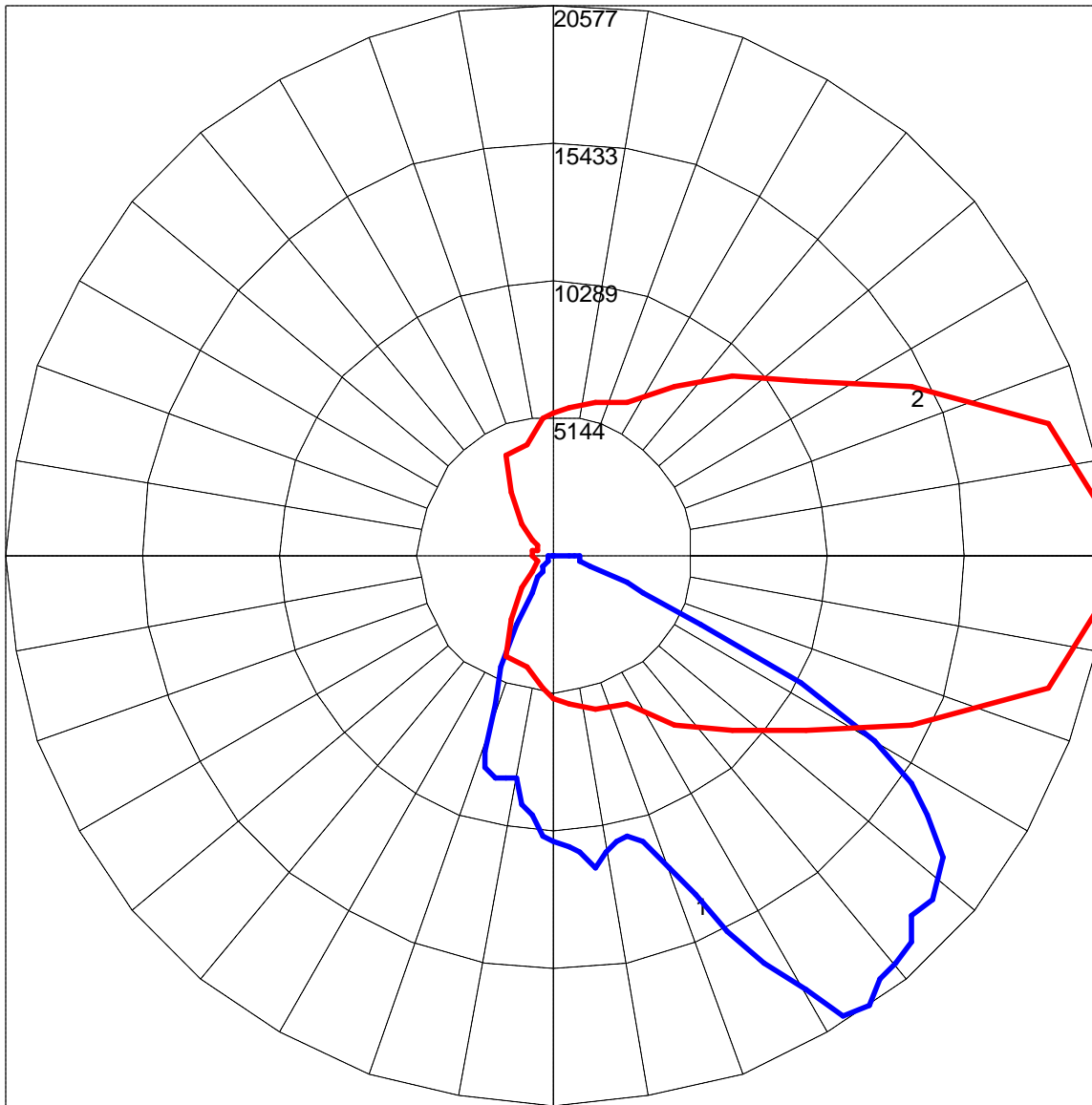
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

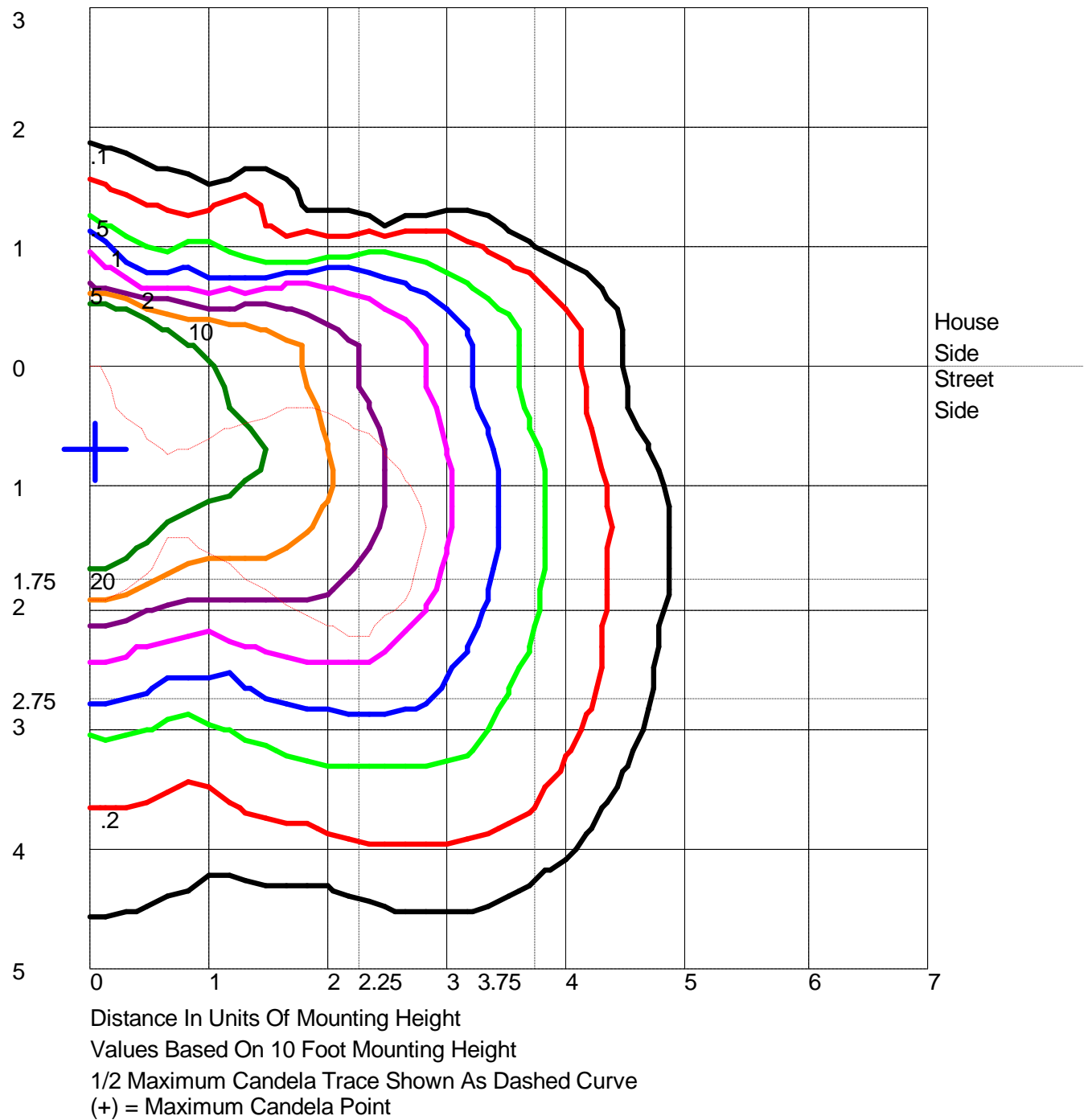
	Lumens	Percent Of Luminaire
Downward Street Side	24718.0	81.0
Downward House Side	5794.3	19.0
Downward Total	30512.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30512.3	100.0

POLAR GRAPH

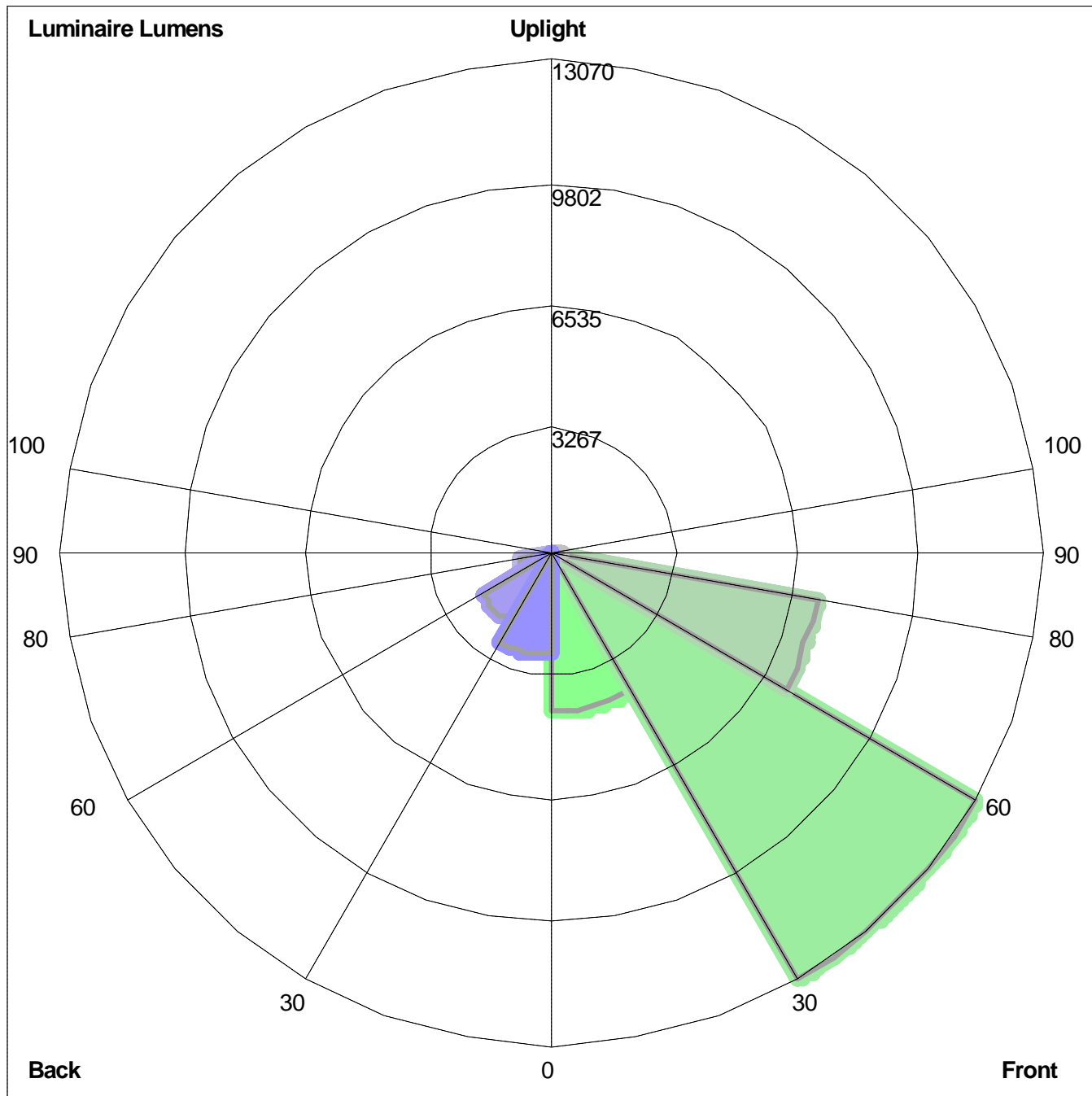


Maximum Candela = 20577 Located At Horizontal Angle = 5, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 4249.0, Medium=13069.6, High= 7167.0, Very High=232.4
Back: Low=2741.4, Medium=2137.7, High=904.3, Very High=10.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3