

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-5-LED-HO-NW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7161
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]08/20/15
[TEST DATE]08/20/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-5-LED-HO-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]35681
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	35681
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	544.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15380
Maximum Candela Angle	0H 62.5V
Maximum Candela (<90 Degrees Vertical)	15380
Maximum Candela Angle (<90 Degrees Vertical)	0H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2742 (7.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3670.0	N.A.	10.3
FM - Front-Medium (30-60)	8494.6	N.A.	23.8
FH - Front-High (60-80)	7922.9	N.A.	22.2
FVH - Front-Very High (80-90)	409.2	N.A.	1.1
BL - Back-Low (0-30)	3704.4	N.A.	10.4
BM - Back-Medium (30-60)	8018.3	N.A.	22.5
BH - Back-High (60-80)	3421.6	N.A.	9.6
BVH - Back-Very High (80-90)	40.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	35681.1	N.A.	100.0
BUG Rating	B4-U0-G4		

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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	11001	11001	11001	11001	11001	11001	11001	11001	11001	11001
2.5	11112	11032	11095	11077	11057	11060	11040	11050	11034	11049
5.0	11265	11188	11246	11209	11156	11127	11062	11064	11031	11035
7.5	12111	12019	12088	12041	11879	11396	11113	11077	11001	10993
10.0	11766	11662	11756	11713	11670	11681	11655	11004	10869	10802
12.5	10959	10852	10957	10941	10993	11018	11035	11079	10387	10240
15.0	10001	9914	9968	10040	10132	10195	10190	10232	10117	9494
17.5	9145	9059	9112	9128	9105	9204	9204	9262	9312	8862
20.0	9518	9414	9433	9227	8134	7978	8031	8184	8589	8584
22.5	9022	8915	8918	8731	8201	7243	6767	7177	8006	8646
25.0	8843	8706	8685	8246	7474	6675	5883	6432	7598	8505
27.5	8796	8645	8596	7909	6896	5949	5502	5893	7159	8230
30.0	9394	9172	9066	7736	6387	5365	4928	5470	6687	7965
32.5	9458	9305	9293	8517	6471	4856	4662	5261	6138	7717
35.0	9131	9014	9101	8190	6137	4848	4540	4851	5601	7446
37.5	8610	8566	8726	7700	5730	4898	4459	4592	5358	7165
40.0	9440	9400	9476	7946	5375	4848	4826	4457	5421	6915
42.5	9892	9770	9728	7836	5939	4775	4756	4465	5204	6675
45.0	10071	9930	9820	7657	5979	5385	4745	4819	5075	6515
47.5	11097	10750	10699	8233	5953	5515	4855	5140	5185	6655
50.0	11439	11235	11138	8804	6782	5556	5732	5455	5657	7156
52.5	11849	11697	11693	8931	7608	6408	6020	5963	6665	7886
55.0	12777	12540	12418	10194	8441	7293	6536	7221	7841	8452
57.5	13361	13062	13035	10770	9355	8172	7986	8057	8328	9142
60.0	14019	13749	13697	12161	10245	9286	8909	8712	8805	9897
62.5	15380	14998	15077	13623	11257	10418	10192	9914	9540	10437
65.0	14071	13587	13421	13290	12436	11386	10853	10426	9740	10306
67.5	12148	11533	11214	11447	11369	12229	11702	10716	9065	9021
70.0	9535	9134	8627	9163	9714	11330	11870	9696	7455	6621
72.5	7250	6814	6519	7219	7817	9739	9907	7888	5491	4344
75.0	5065	4745	4507	5211	6037	7517	7215	5671	3656	2687
77.5	3327	3165	3004	3574	4151	5013	4521	3535	2178	1375
80.0	2209	2076	2051	2456	2565	2742	2391	1934	1087	616
82.5	1481	1413	1411	1842	1490	1506	1234	938	448	237
85.0	1083	1048	1081	1217	1003	921	702	442	187	97
87.5	749	763	757	790	761	668	515	322	132	59
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	11001	11001	11001	11001	11001	11001	11001	11001	11001	11001
2.5	11057	11008	11016	11003	10982	10977	10968	10985	10986	10976
5.0	11027	10971	10972	10953	10933	10910	10874	10876	10867	10859
7.5	10972	10899	10896	10865	10821	10774	10751	10789	10811	10826
10.0	10749	10652	10635	10595	10580	10545	10565	10499	9976	9969
12.5	10121	10016	10010	10005	10034	10083	9457	9604	9754	9813
15.0	9402	9329	9363	9483	9510	8918	9067	9377	9631	9710
17.5	8789	8712	8735	8783	8849	8598	8829	9140	9415	9627
20.0	8560	8457	8439	8343	7894	8098	8555	8793	9264	9648
22.5	8462	8336	8291	8094	7555	7675	8041	8519	9066	8779
25.0	8296	8174	8139	7982	7421	7422	7679	7884	8214	8550
27.5	8162	8055	8011	7689	7348	7351	7355	7425	7967	8324

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CANDELA TABULATION - (Cont.)

30.0	8108	8004	7947	7212	7194	7337	6866	7146	7633	8108
32.5	8080	7981	7945	7122	7062	7155	6825	6801	7376	7675
35.0	8055	7948	7876	7189	7052	6620	6671	6646	6652	7185
37.5	7820	7682	7524	7002	6993	6478	6449	6187	6457	7066
40.0	7594	7454	7404	6890	6894	6367	6289	6127	6364	7102
42.5	7766	7616	7534	6856	6482	6184	5778	6070	6441	6671
45.0	8162	7916	7758	6866	6240	6048	5710	6183	6330	6885
47.5	8646	8323	8157	7003	6146	5536	5772	6012	6636	7322
50.0	9040	8590	8417	7317	6133	5428	5661	6224	7041	7637
52.5	9371	8622	8489	7546	6309	5427	5553	6612	7626	8424
55.0	9580	8629	8445	7273	6208	5612	5866	7001	8306	8471
57.5	9866	8906	8240	6709	5551	5224	6049	7606	8315	8707
60.0	10086	8962	8163	6738	5561	5412	6674	7506	8071	7457
62.5	9891	8719	7744	6657	5592	5321	6452	7317	6895	6964
65.0	8836	7795	6874	6131	4544	5505	6430	6346	5730	5215
67.5	7209	6446	5707	4786	4157	4641	5483	5177	4488	3577
70.0	5339	4769	4289	3396	3166	4135	4756	3891	2181	1075
72.5	3531	3194	2854	2456	2588	3404	3310	1973	482	0
75.0	2052	1822	1693	1508	1755	2566	1776	826	312	0
77.5	934	830	851	908	1108	1589	841	441	164	0
80.0	387	344	355	529	567	770	352	148	58	0
82.5	134	136	142	336	188	267	86	21	2	0
85.0	42	45	54	108	20	32	0	0	0	0
87.5	15	11	11	6	1	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

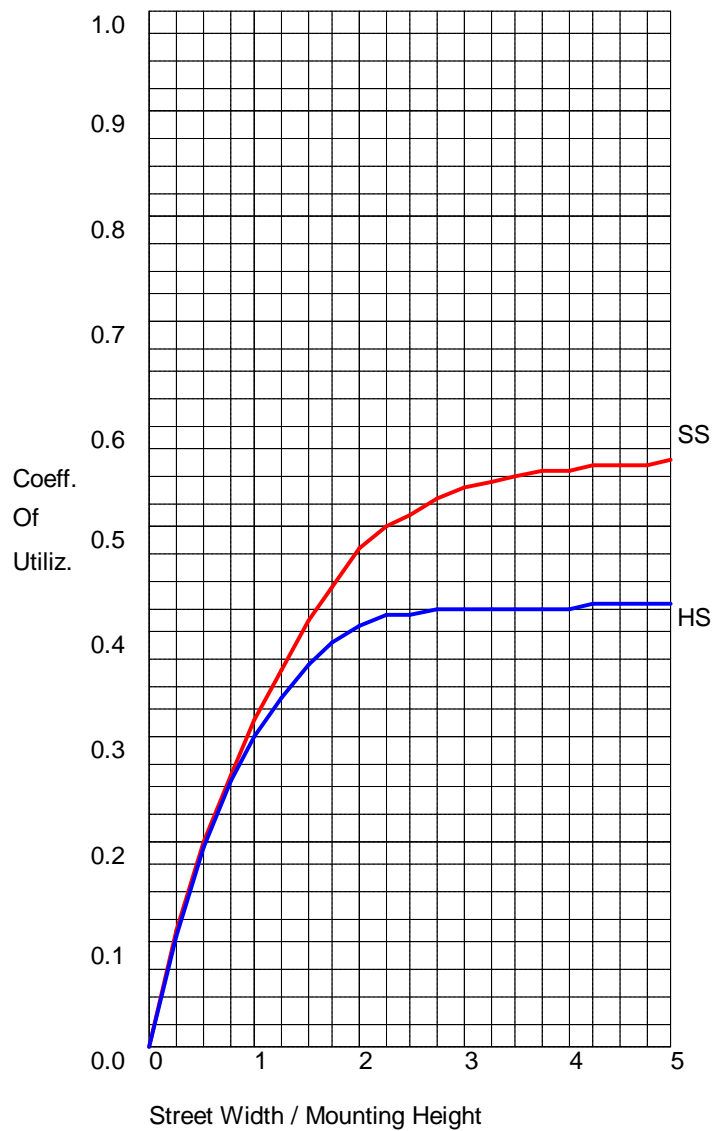
	175.0	180.0
0.0	11001	11001
2.5	10962	11088
5.0	10838	10950
7.5	10828	10946
10.0	10034	10154
12.5	9858	10002
15.0	9722	9845
17.5	9660	9784
20.0	9758	9895
22.5	8834	8944
25.0	8657	8781
27.5	8519	8638
30.0	8439	8587
32.5	7474	7627
35.0	7360	7488
37.5	7316	7354
40.0	7399	7361
42.5	7032	7049
45.0	7401	7446
47.5	7487	7504
50.0	8192	8322
52.5	8737	8817
55.0	8480	8611
57.5	8500	8542
60.0	7204	7303
62.5	6567	6579
65.0	5096	5051

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CANDELA TABULATION - (Cont.)

67.5	2784	2703
70.0	78	31
72.5	0	0
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

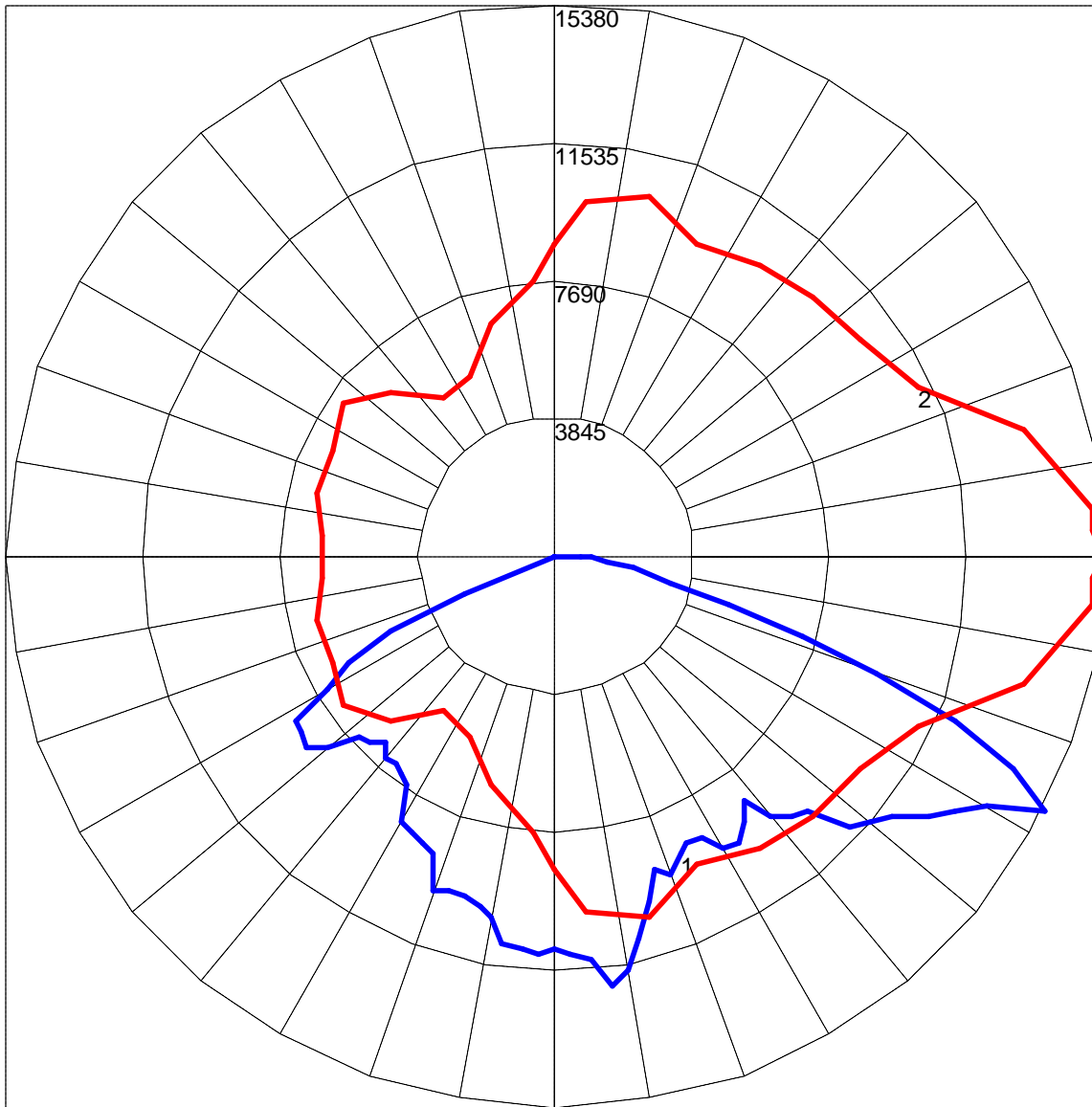
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

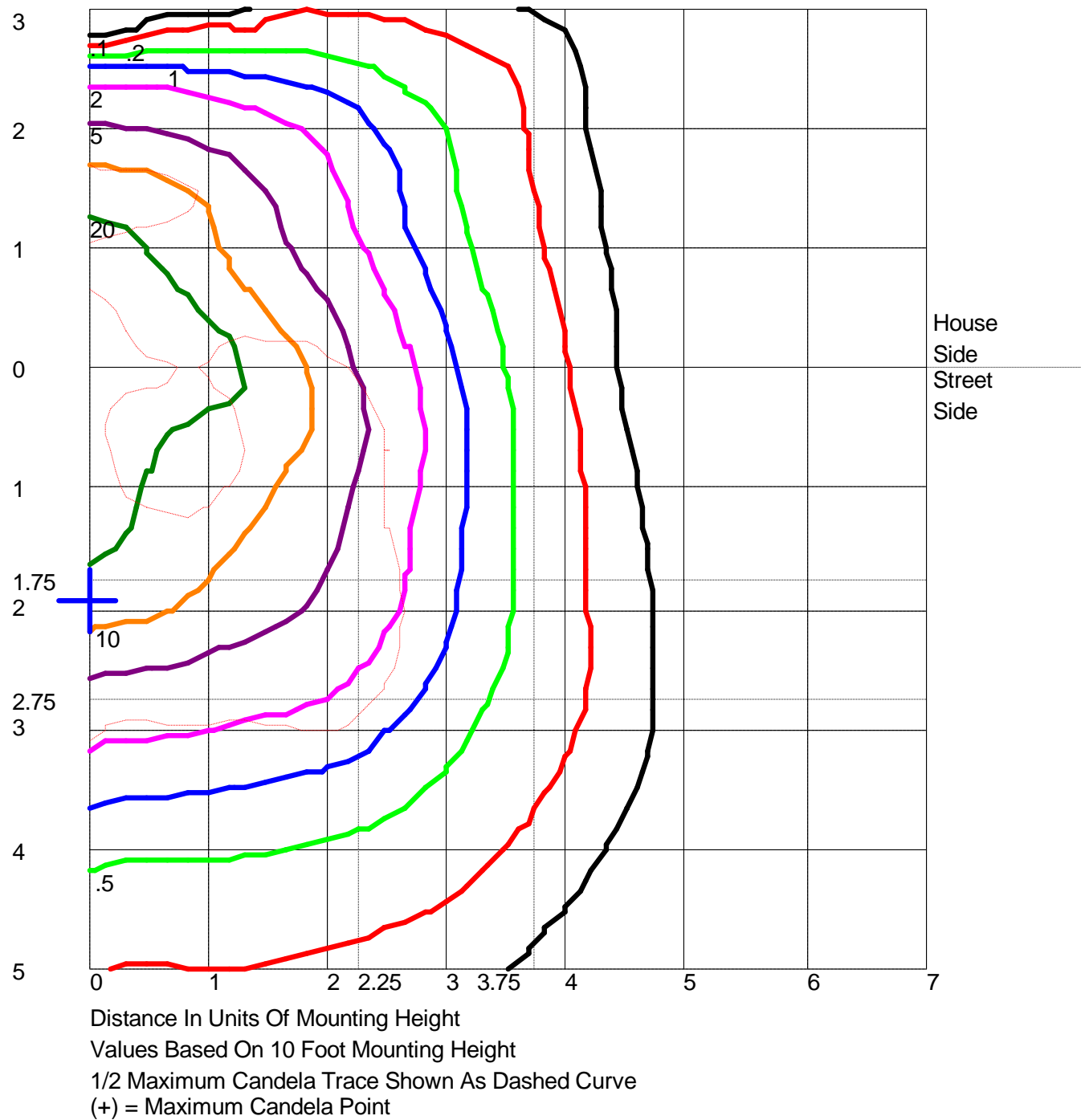
	Lumens	Percent Of Luminaire
Downward Street Side	20496.8	57.4
Downward House Side	15184.4	42.6
Downward Total	35681.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35681.3	100.0

POLAR GRAPH

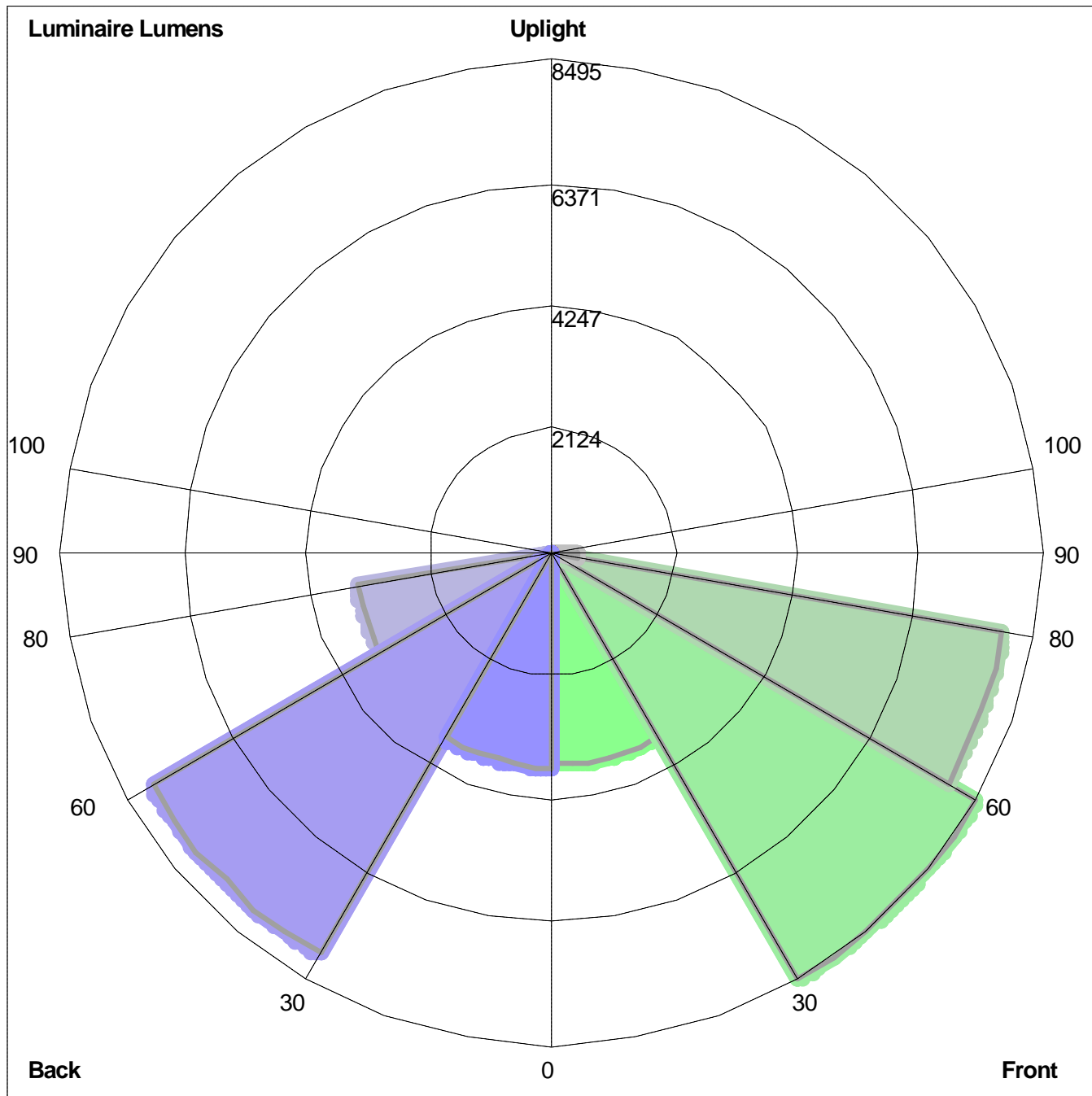


Maximum Candela = 15380 Located At Horizontal Angle = 0, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 3670.0, Medium=8494.6, High=7922.9, Very High=409.2
Back: Low=3704.4, Medium=8018.3, High=3421.6, Very High=40.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4