



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7248
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/11/15
[TEST DATE]09/11/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-3-LED-HO-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]52839
[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	52839
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	544
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	32757
Maximum Candela Angle	2.5H 32.5V
Maximum Candela (<90 Degrees Vertical)	32757
Maximum Candela Angle (<90 Degrees Vertical)	2.5H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3214 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	8012.1	N.A.	15.2
FM - Front-Medium (30-60)	20490.4	N.A.	38.8
FH - Front-High (60-80)	11150.9	N.A.	21.1
FVH - Front-Very High (80-90)	182.5	N.A.	0.3
BL - Back-Low (0-30)	5856.5	N.A.	11.1
BM - Back-Medium (30-60)	4870.9	N.A.	9.2
BH - Back-High (60-80)	2235.7	N.A.	4.2
BVH - Back-Very High (80-90)	40.6	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	52839.6	N.A.	100.0
BUG Rating	B5-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	21088	21088	21088	21088	21088	21088	21088	21088	21088	21088
2.5	21435	21451	21511	21498	21366	21357	21337	21340	21247	21166
5.0	21430	21458	21554	21518	21327	21199	21070	21057	20842	20756
7.5	21138	21187	21247	21208	20953	20821	20697	20676	20609	20496
10.0	20409	20432	20517	20473	20349	20458	20446	20329	20153	19910
12.5	20119	20099	20142	19917	19718	19917	19870	19375	19070	18866
15.0	20666	20655	20591	20278	19770	19471	19073	18180	17512	17441
17.5	21844	21863	21738	21436	20577	19363	18247	16840	15829	15515
20.0	23962	23990	23830	23345	22007	19786	17524	15418	14182	13676
22.5	26307	26344	26342	25685	23773	20659	17067	14267	12741	12266
25.0	28502	28566	28577	27844	25627	21650	16965	13317	11889	11423
27.5	30435	30518	30645	29720	26770	21997	17001	13109	11578	11092
30.0	31995	32113	32100	30890	26937	21471	16745	13436	11576	10987
32.5	32670	32757	32722	30857	25901	20306	16615	13920	11819	10873
35.0	32126	32183	32232	30172	24047	18952	16657	14429	12114	10876
37.5	31160	31330	31290	28714	22038	17651	16622	15222	12628	11105
40.0	29673	29845	29921	27170	20084	16678	16401	15759	13330	11527
42.5	28551	28696	28658	25109	18173	16002	15970	16273	14055	12113
45.0	27604	27711	27664	23115	16735	15415	15595	16576	15318	12575
47.5	26905	27044	26967	21666	15609	15162	15398	16646	16589	12971
50.0	25959	26116	25977	20376	14769	15019	15440	16844	17898	13585
52.5	24561	24731	24521	19294	14344	15008	15650	17461	19353	15034
55.0	22917	22935	22693	18023	13933	14894	16307	18377	21021	17166
57.5	21012	20867	20641	16444	13192	14447	17295	19837	22907	19357
60.0	18464	18576	18436	14706	11943	14147	18326	21595	25133	21822
62.5	13986	14088	14058	11258	10334	13406	19093	23268	26734	23348
65.0	9188	9340	9317	7318	7632	12234	19380	24459	26438	22932
67.5	4537	4657	4599	3619	4696	10580	19119	23567	23592	21608
70.0	2746	2790	2822	2003	2848	8356	17781	20633	20410	18810
72.5	1068	1149	1383	1016	2340	6906	14881	17510	15800	13598
75.0	424	471	530	462	1980	5642	11846	12612	10392	8224
77.5	284	279	284	326	1271	3745	7374	7064	5336	3749
80.0	199	186	190	247	546	1982	3214	2969	1768	1482
82.5	117	119	123	232	244	594	846	876	518	387
85.0	67	69	72	99	98	121	149	133	116	103
87.5	30	30	34	39	43	52	62	62	62	63
90.0	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>
0.0	21088	21088	21088	21088	21088	21088	21088	21088	21088	21088
2.5	21116	21195	21066	21031	21011	20849	20772	20801	20738	20709
5.0	20620	20666	20485	20282	20167	19761	19596	19564	19579	19509
7.5	20279	20264	20049	19635	19129	18647	18367	18363	18415	18589
10.0	19574	19517	19174	18567	17981	17670	17641	17832	18038	18312
12.5	18451	18205	17864	17084	16619	16759	17170	17690	17970	18347
15.0	17053	16777	16344	15408	15471	15955	16807	17688	18071	18430
17.5	15141	14917	14562	13788	14025	15030	16306	17437	17785	17919
20.0	13356	13139	12828	12345	12879	14067	15752	16695	16727	16526
22.5	12009	11811	11428	10960	11650	13097	14482	15004	14564	13932
25.0	11240	11089	10681	10169	10703	11844	12899	12843	11905	10806
27.5	10938	10793	10397	9864	10209	10562	10795	10022	8698	7253

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CANDELA TABULATION - (Cont.)

30.0	10878	10735	10303	9712	9883	9434	8445	7132	5661	4439
32.5	10887	10767	10314	9617	9490	8237	6234	4625	3227	2535
35.0	10952	10858	10362	9526	8982	6787	4416	2640	1779	1633
37.5	11255	10985	10356	9413	8329	5307	2981	1350	1153	1340
40.0	11627	11186	10499	9475	7637	3908	1980	866	827	1209
42.5	11844	11404	10640	9566	6822	2771	1462	710	626	1001
45.0	11716	11323	10781	9742	5942	1874	1285	622	522	702
47.5	11845	11744	11380	10112	5062	1297	1255	569	465	500
50.0	12695	12687	12343	10674	4269	1103	1232	532	433	426
52.5	14030	13904	13569	11490	3599	1043	1145	499	401	381
55.0	15290	15345	15025	12117	3016	978	1019	448	369	340
57.5	16664	16652	16602	12255	2463	893	970	388	349	314
60.0	17752	17792	18156	12008	2012	712	1036	354	327	291
62.5	17940	17869	18267	11137	1730	551	1012	333	306	280
65.0	16535	16239	16896	9495	1462	475	854	301	288	274
67.5	14940	14580	15343	8162	1172	429	678	272	264	252
70.0	12571	12264	12863	6353	872	400	549	246	242	233
72.5	8768	8419	8932	3989	633	381	470	218	240	211
75.0	5262	4949	5190	2004	415	339	411	198	184	189
77.5	2271	2112	2089	773	301	267	311	161	138	165
80.0	830	801	732	296	214	191	174	119	114	135
82.5	235	199	187	142	121	114	106	84	77	73
85.0	90	87	86	81	72	60	53	48	43	37
87.5	50	44	45	31	18	13	9	3	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

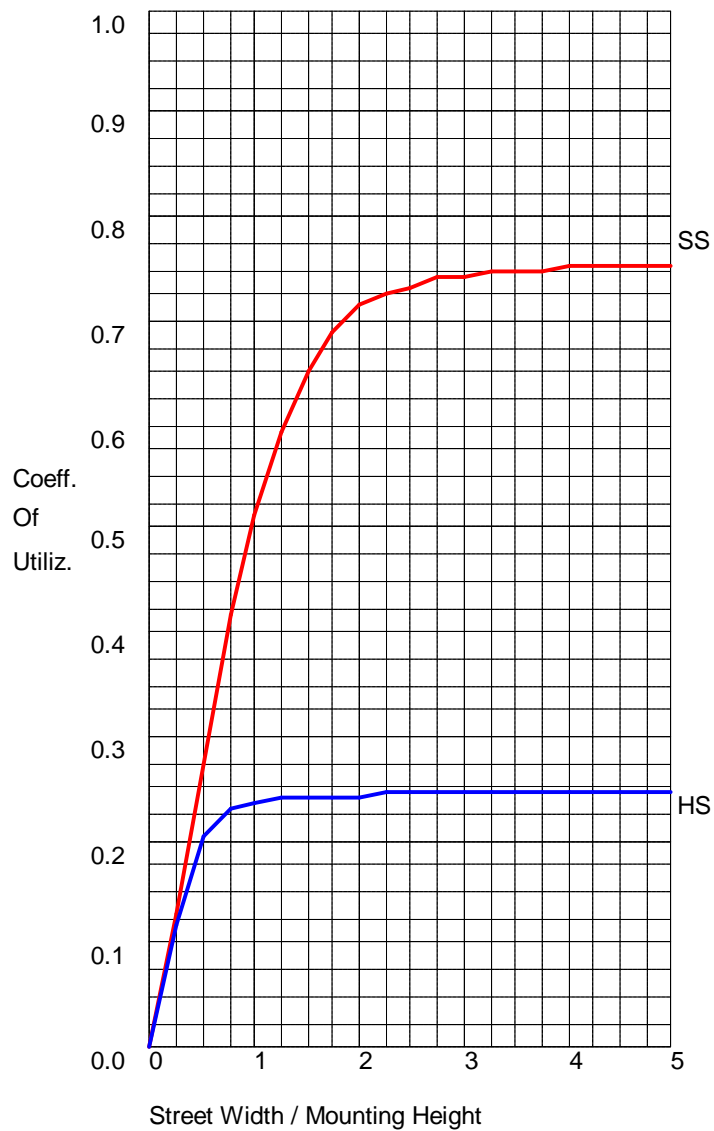
	175.0	180.0
0.0	21088	21088
2.5	20709	20844
5.0	19554	19686
7.5	18709	18873
10.0	18579	18751
12.5	18666	18817
15.0	18752	18910
17.5	18084	18185
20.0	16430	16467
22.5	13658	13647
25.0	10391	10356
27.5	7079	7089
30.0	4439	4529
32.5	2818	3046
35.0	2227	2490
37.5	1876	2155
40.0	1591	1884
42.5	1404	1713
45.0	1238	1556
47.5	970	1241
50.0	665	805
52.5	485	545
55.0	433	492
57.5	439	508
60.0	410	480
62.5	355	440
65.0	322	404

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CANDELA TABULATION - (Cont.)

67.5	297	368
70.0	278	339
72.5	258	308
75.0	234	277
77.5	201	237
80.0	145	168
82.5	76	86
85.0	33	32
87.5	0	0
90.0	0	0

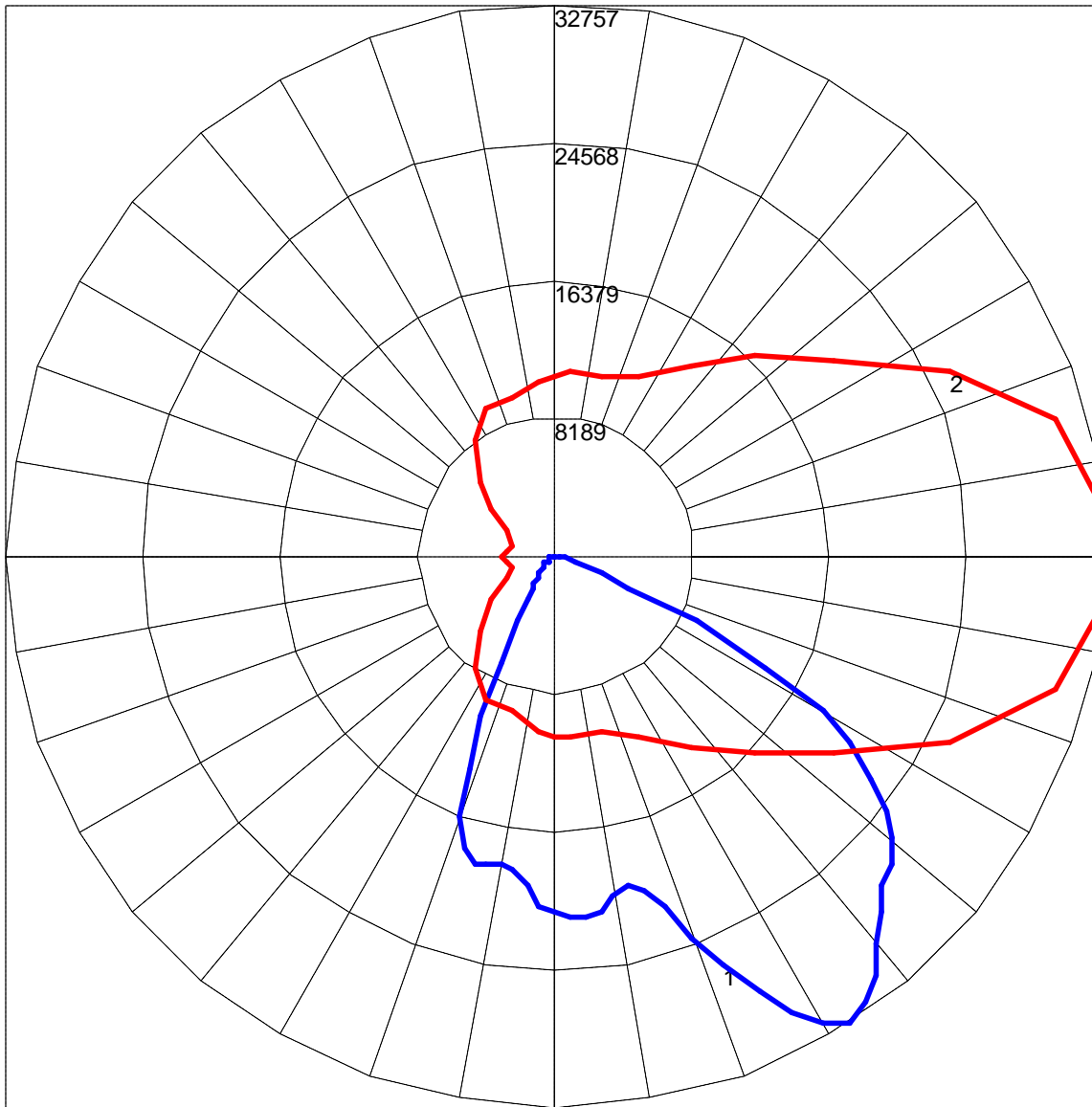
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

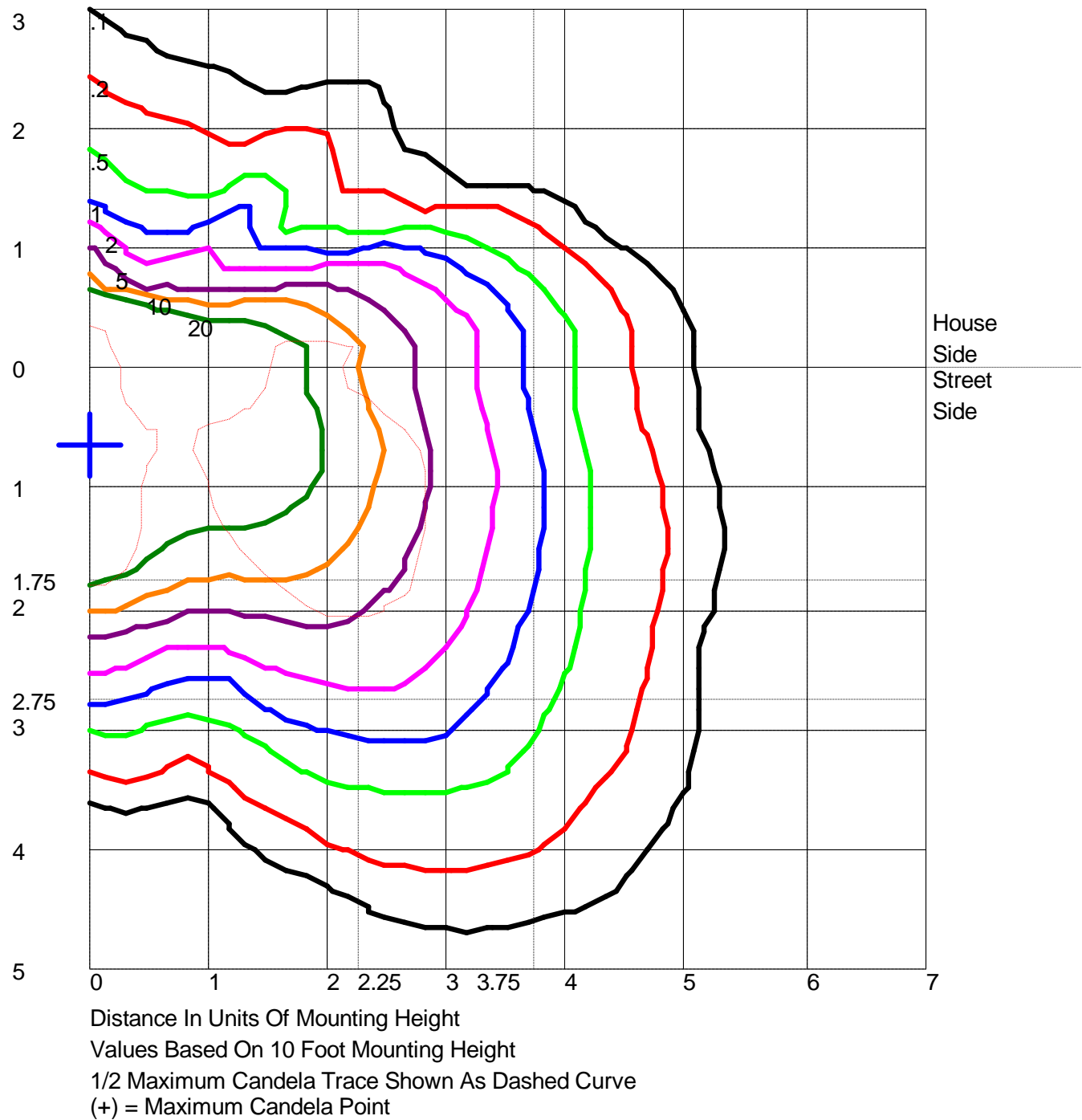
	Lumens	Percent Of Luminaire
Downward Street Side	39835.8	75.4
Downward House Side	13003.6	24.6
Downward Total	52839.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	52839.4	100.0

POLAR GRAPH

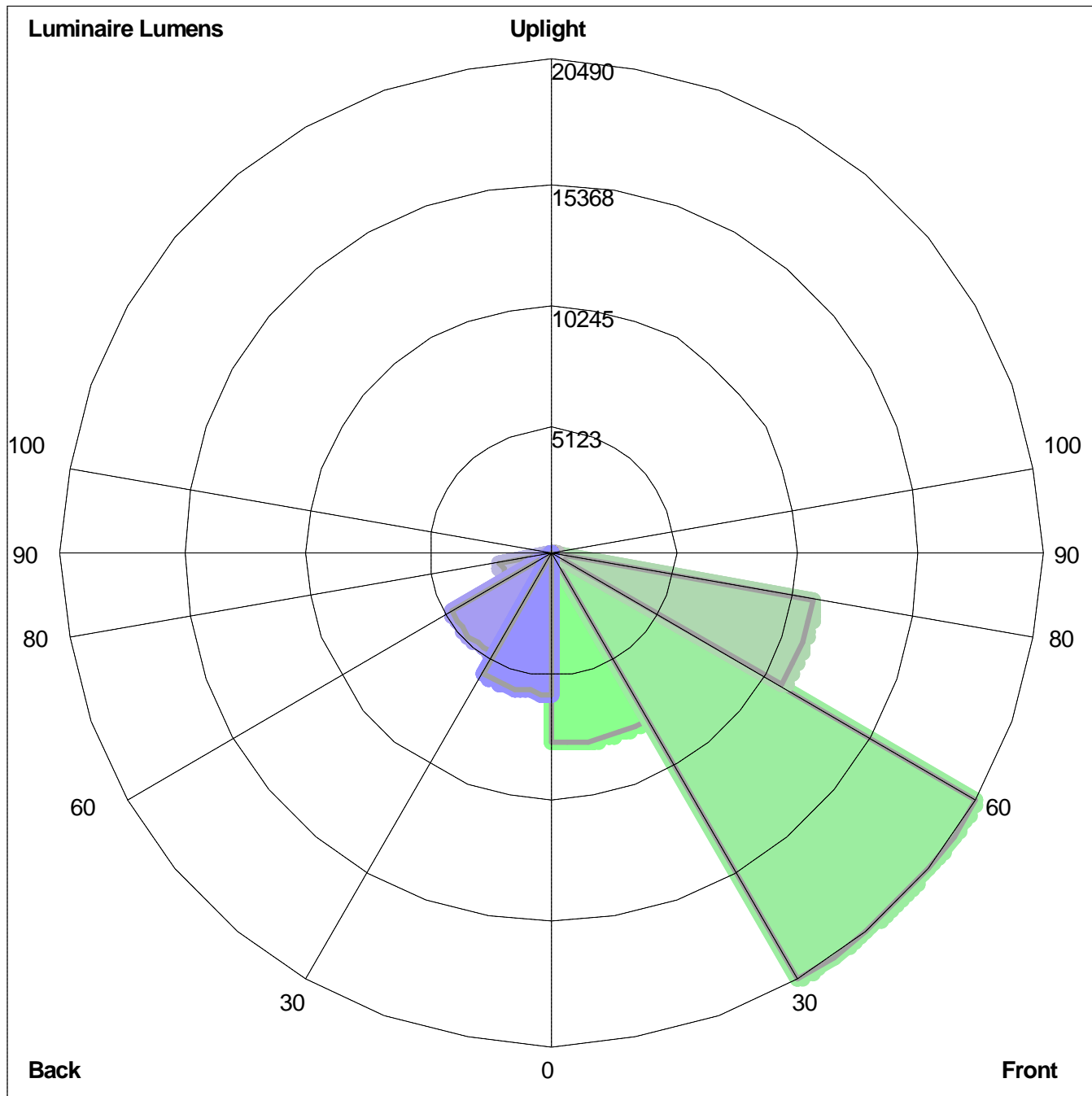


Maximum Candela = 32757 Located At Horizontal Angle = 2.5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=8012.1, Medium=20490.4, High=11150.9, Very High=182.5
Back: Low=5856.5, Medium=4870.9, High=2235.7, Very High=40.6
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4