



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11790
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-10L-40-IL
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9597
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10322
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	10322
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	480 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	492.1	N.A.	5.1
FM - Front-Medium (30-60)	4963.8	N.A.	51.7
FH - Front-High (60-80)	3102.0	N.A.	32.3
FVH - Front-Very High (80-90)	61.8	N.A.	0.6
BL - Back-Low (0-30)	274.1	N.A.	2.9
BM - Back-Medium (30-60)	571.9	N.A.	6.0
BH - Back-High (60-80)	124.9	N.A.	1.3
BVH - Back-Very High (80-90)	6.5	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	9597.1	N.A.	100.0
BUG Rating	B1-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	879	879	879	879	879	879	879	879	879	879
2.5	867	869	869	871	868	870	869	872	875	875
5.0	855	855	858	861	863	865	865	869	872	875
7.5	831	834	839	843	852	860	862	867	873	876
10.0	814	817	823	831	841	851	860	865	877	881
12.5	811	814	819	831	842	857	866	871	888	892
15.0	828	829	837	854	872	885	895	899	910	911
17.5	876	881	889	907	931	940	950	953	953	947
20.0	971	978	983	1000	1022	1036	1042	1043	1033	1013
22.5	1119	1127	1139	1143	1164	1190	1187	1186	1167	1133
25.0	1307	1324	1333	1348	1375	1405	1399	1394	1367	1300
27.5	1549	1564	1582	1601	1640	1688	1691	1665	1624	1505
30.0	1801	1817	1850	1880	1953	2004	2005	1993	1908	1732
32.5	2056	2052	2101	2163	2273	2337	2335	2320	2195	1970
35.0	2313	2316	2364	2465	2589	2675	2673	2644	2496	2198
37.5	2615	2628	2680	2793	2908	3009	3008	2965	2771	2395
40.0	2992	3011	3056	3159	3247	3352	3335	3274	3009	2558
42.5	3446	3466	3517	3606	3683	3703	3664	3582	3216	2716
45.0	4035	4058	4097	4173	4184	4096	3991	3879	3418	2878
47.5	4770	4836	4947	4932	4861	4656	4375	4226	3652	3112
50.0	5457	5556	5691	5773	5664	5311	4892	4702	3992	3595
52.5	5988	6043	6449	6825	6743	6146	5625	5372	4662	4290
55.0	6297	6391	6845	7525	7679	7206	6727	6479	5677	5090
57.5	5748	5828	6627	7710	8393	8241	8089	7943	7110	5551
60.0	4356	4487	5407	6979	8534	9181	9534	9487	7890	5797
62.5	2505	2642	3519	5199	7676	9522	10322	10282	8287	5907
65.0	1030	1120	1639	3080	5753	8769	10161	10282	8356	5480
67.5	562	589	786	1437	3733	6775	9028	9425	7601	4283
70.0	346	365	454	811	1892	4324	6843	7513	5703	2939
72.5	240	250	315	546	1091	2231	3976	4572	3602	1284
75.0	163	170	223	429	789	1117	1770	2194	1549	503
77.5	115	119	162	341	636	665	722	846	751	270
80.0	88	93	125	264	480	418	348	353	373	168
82.5	68	73	102	213	317	251	182	179	190	124
85.0	51	53	80	164	204	129	98	98	101	84
87.5	33	35	55	103	77	45	38	36	36	38
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	879	879	879	879	879	879	879	879	879	879
2.5	879	884	885	885	890	893	891	891	889	889
5.0	884	887	892	892	903	912	913	914	916	916
7.5	888	890	897	902	916	928	929	924	922	917
10.0	890	896	904	913	929	936	919	881	839	802
12.5	894	897	910	922	933	914	838	744	667	605
15.0	905	907	916	928	924	831	691	584	516	477
17.5	931	922	929	934	881	711	557	489	443	415
20.0	981	961	953	941	803	597	485	437	406	378
22.5	1069	1031	997	940	710	534	444	408	391	354
25.0	1186	1112	1055	916	629	496	414	391	401	369
27.5	1317	1206	1116	869	578	467	394	385	441	428

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CANDELA TABULATION - (Cont.)

30.0	1459	1309	1176	813	539	445	376	394	512	516
32.5	1607	1408	1230	764	495	429	366	409	594	594
35.0	1746	1495	1271	726	459	417	351	412	684	667
37.5	1858	1563	1302	685	427	400	337	403	774	782
40.0	1951	1620	1325	645	398	374	319	382	862	803
42.5	2061	1686	1345	620	375	350	299	347	897	586
45.0	2210	1808	1407	627	354	325	272	309	732	406
47.5	2532	2028	1522	655	334	295	238	262	405	299
50.0	2966	2323	1649	680	304	242	192	217	223	234
52.5	3471	2623	1772	700	254	169	132	152	146	195
55.0	3806	2783	1801	682	187	112	94	100	102	161
57.5	4004	2821	1731	609	137	90	75	71	77	131
60.0	4139	2742	1513	510	117	79	62	55	61	109
62.5	3998	2388	1103	389	106	72	53	44	50	94
65.0	3377	1913	771	276	94	61	45	35	41	79
67.5	2459	1375	487	176	75	48	35	28	30	67
70.0	1288	707	262	109	54	35	24	20	21	53
72.5	480	305	152	77	39	24	16	14	13	39
75.0	235	177	116	64	29	16	10	8	7	26
77.5	134	117	94	57	21	12	6	6	4	16
80.0	100	89	80	49	16	8	5	4	3	10
82.5	73	66	65	38	10	6	5	4	3	6
85.0	47	43	46	23	6	5	5	4	2	4
87.5	21	18	23	10	4	4	4	3	2	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

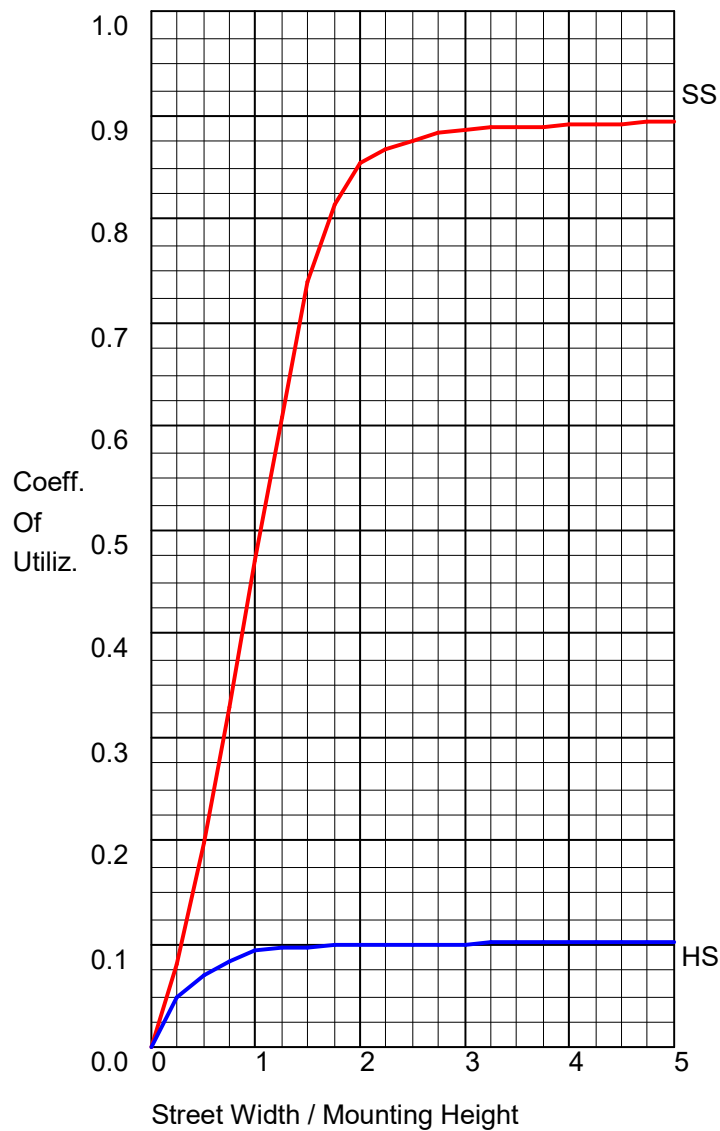
	<u>175.0</u>	<u>180.0</u>
0.0	879	879
2.5	885	890
5.0	909	914
7.5	905	901
10.0	776	762
12.5	576	569
15.0	458	455
17.5	399	397
20.0	360	358
22.5	332	329
25.0	332	327
27.5	362	350
30.0	413	390
32.5	438	411
35.0	477	448
37.5	477	428
40.0	367	321
42.5	261	231
45.0	200	181
47.5	166	146
50.0	148	123
52.5	137	106
55.0	131	98
57.5	132	101
60.0	137	111
62.5	142	123
65.0	142	132

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CANDELA TABULATION - (Cont.)

67.5	135	129
70.0	118	114
72.5	94	93
75.0	67	69
77.5	47	51
80.0	33	36
82.5	23	25
85.0	14	15
87.5	7	8
90.0	0	0

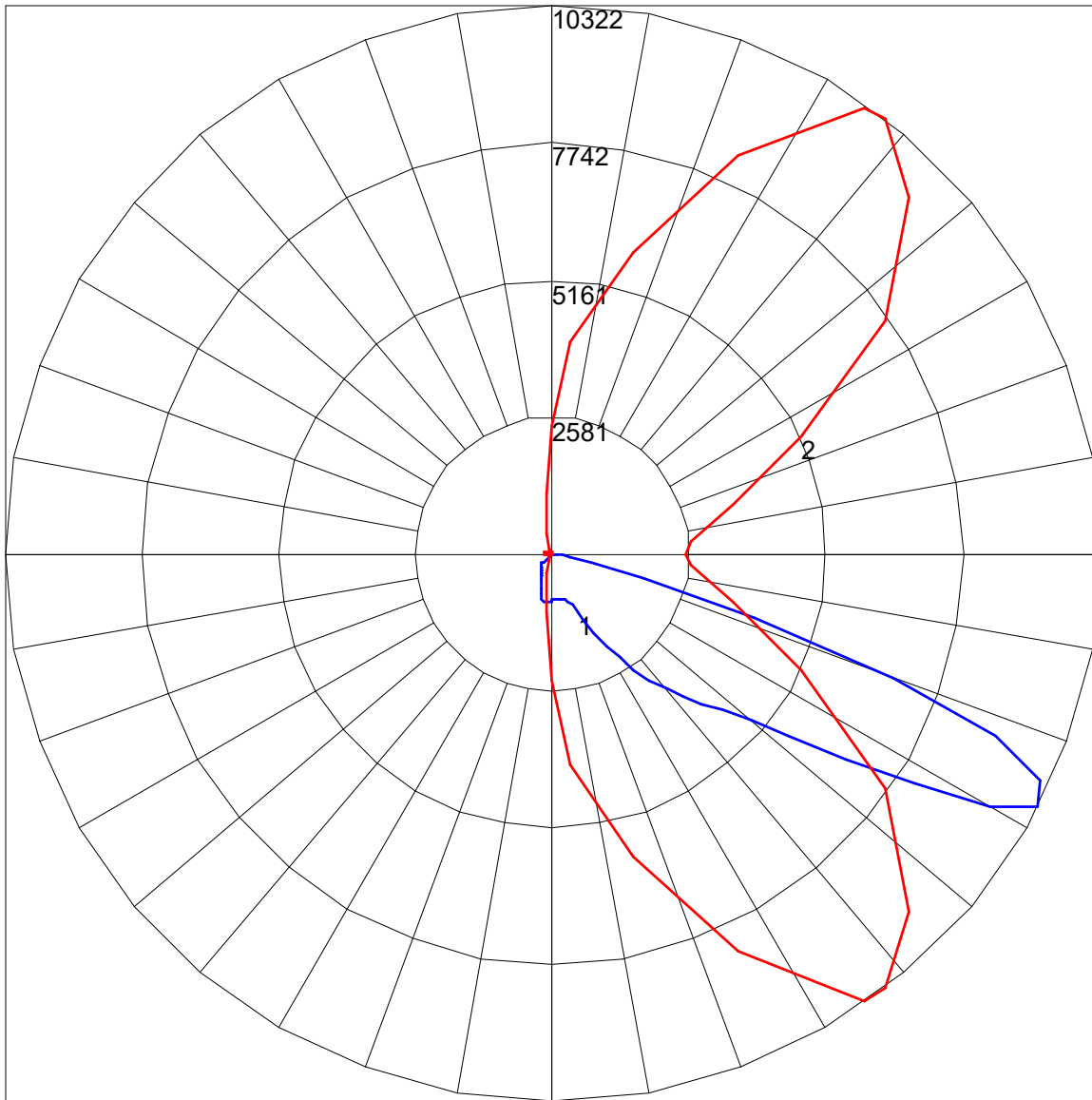
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

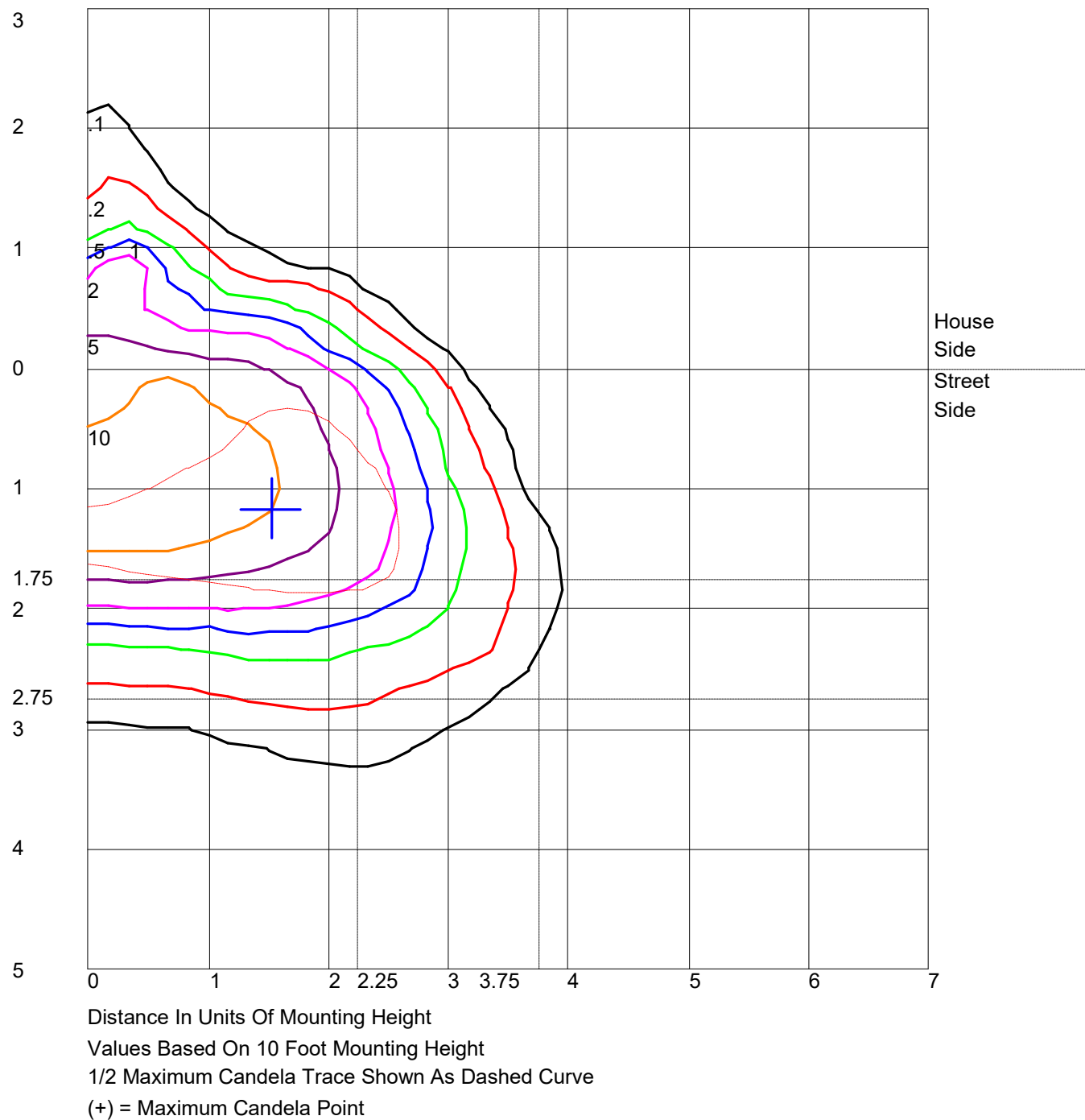
	Lumens	Percent Of Luminaire
Downward Street Side	8619.7	89.8
Downward House Side	977.4	10.2
Downward Total	9597.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9597.1	100.0

POLAR GRAPH

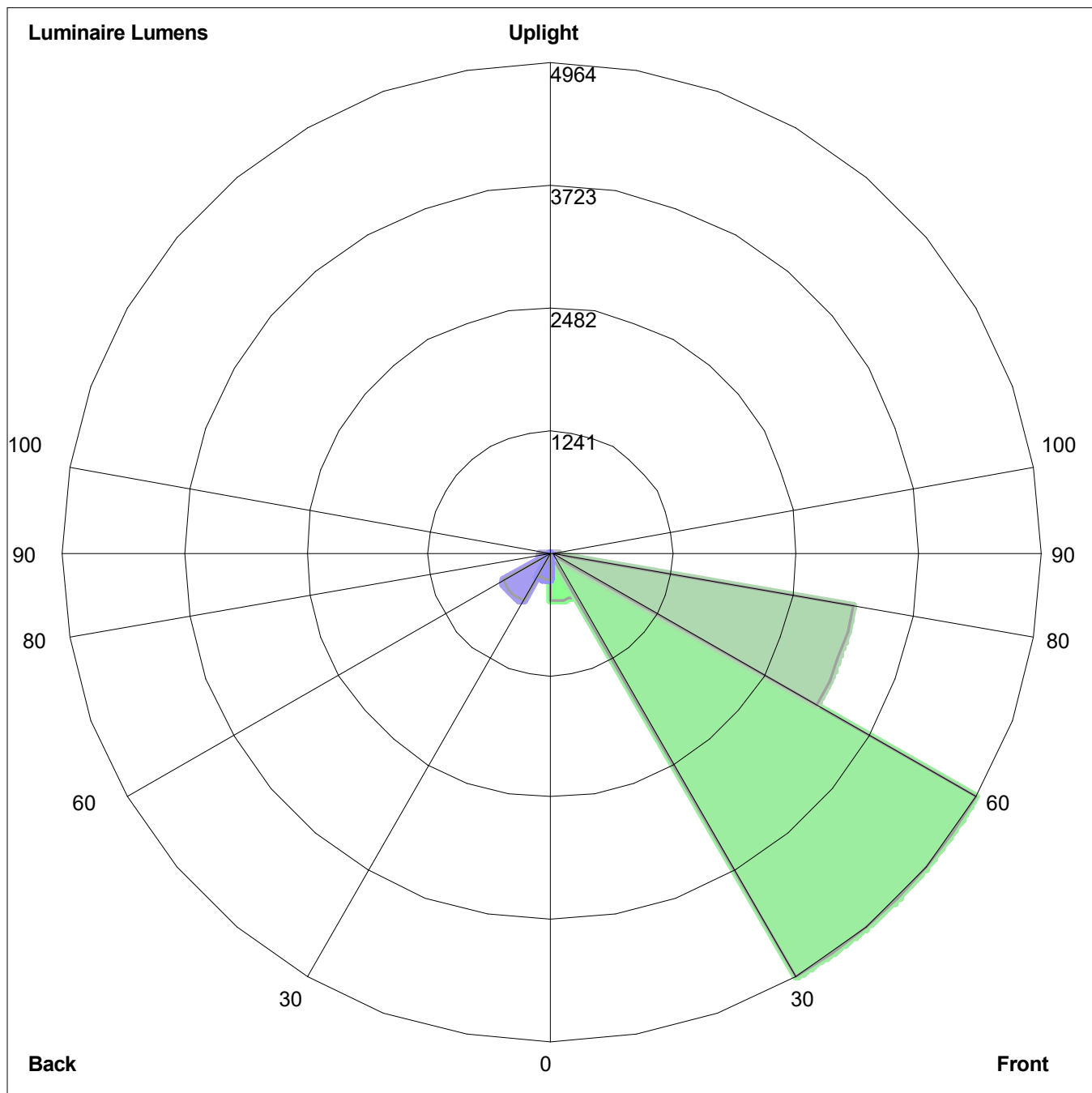


Maximum Candela = 10322 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=492.1, Medium=4963.8, High= 3102.0, Very High=61.8
Back: Low=274.1, Medium=571.9, High=124.9, Very High=6.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2