



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-10L-30-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
[MANUFACTURER] 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-30-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	8774
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9436
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	9436
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	439 (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)	449.8	N.A.	5.1
FM - Front-Medium (30-60)	4538.0	N.A.	51.7
FH - Front-High (60-80)	2835.8	N.A.	32.3
FVH - Front-Very High (80-90)	56.5	N.A.	0.6
BL - Back-Low (0-30)	250.5	N.A.	2.9
BM - Back-Medium (30-60)	522.8	N.A.	6.0
BH - Back-High (60-80)	114.2	N.A.	1.3
BVH - Back-Very High (80-90)	6.0	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	8773.6	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	804	804	804	804	804	804	804	804	804	804
2.5	793	794	794	796	794	795	794	797	800	800
5.0	782	782	784	787	789	791	791	794	797	800
7.5	760	762	767	771	779	786	788	793	798	801
10.0	744	747	752	760	769	778	786	791	802	805
12.5	741	744	749	760	770	783	792	796	812	815
15.0	757	758	765	781	797	809	818	822	832	833
17.5	801	805	813	829	851	859	868	871	871	866
20.0	888	894	899	914	934	947	953	954	944	926
22.5	1023	1030	1041	1045	1064	1088	1085	1084	1067	1036
25.0	1195	1210	1219	1232	1257	1284	1279	1274	1250	1188
27.5	1416	1430	1446	1464	1499	1543	1546	1522	1485	1376
30.0	1646	1661	1691	1719	1785	1832	1833	1822	1744	1583
32.5	1880	1876	1921	1977	2078	2136	2135	2121	2007	1801
35.0	2115	2117	2161	2254	2367	2445	2444	2417	2282	2009
37.5	2391	2403	2450	2553	2658	2751	2750	2711	2533	2190
40.0	2735	2753	2794	2888	2968	3064	3049	2993	2751	2339
42.5	3150	3169	3215	3297	3367	3385	3350	3275	2940	2483
45.0	3689	3710	3745	3815	3825	3745	3649	3546	3125	2631
47.5	4361	4421	4523	4509	4444	4257	4000	3863	3339	2845
50.0	4989	5079	5203	5278	5178	4855	4472	4299	3649	3287
52.5	5474	5525	5896	6239	6164	5619	5142	4911	4262	3922
55.0	5757	5843	6258	6879	7020	6588	6150	5923	5190	4653
57.5	5255	5328	6058	7048	7673	7534	7395	7261	6500	5075
60.0	3982	4102	4943	6380	7802	8393	8716	8673	7213	5300
62.5	2290	2415	3217	4753	7017	8705	9436	9400	7576	5400
65.0	942	1024	1498	2816	5259	8017	9289	9400	7639	5010
67.5	514	538	719	1314	3413	6194	8253	8616	6949	3916
70.0	316	334	415	741	1730	3953	6256	6868	5214	2687
72.5	219	229	288	499	997	2040	3635	4180	3293	1174
75.0	149	155	204	392	721	1021	1618	2006	1416	460
77.5	105	109	148	312	581	608	660	773	687	247
80.0	80	85	114	241	439	382	318	323	341	154
82.5	62	67	93	195	290	229	166	164	174	113
85.0	47	48	73	150	186	118	90	90	92	77
87.5	30	32	50	94	70	41	35	33	33	35
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	804	804	804	804	804	804	804	804	804	804
2.5	804	808	809	809	814	816	815	815	813	813
5.0	808	811	815	815	826	834	835	836	837	837
7.5	812	814	820	825	837	848	849	845	843	838
10.0	814	819	826	835	849	856	840	805	767	733
12.5	817	820	832	843	853	836	766	680	610	553
15.0	827	829	837	848	845	760	632	534	472	436
17.5	851	843	849	854	805	650	509	447	405	379
20.0	897	879	871	860	734	546	443	400	371	346
22.5	977	943	911	859	649	488	406	373	357	324
25.0	1084	1017	964	837	575	453	378	357	367	337
27.5	1204	1103	1020	794	528	427	360	352	403	391

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CANDELA TABULATION - (Cont.)

30.0	1334	1197	1075	743	493	407	344	360	468	472
32.5	1469	1287	1124	698	453	392	335	374	543	543
35.0	1596	1367	1162	664	420	381	321	377	625	610
37.5	1699	1429	1190	626	390	366	308	368	708	715
40.0	1784	1481	1211	590	364	342	292	349	788	734
42.5	1884	1541	1230	567	343	320	273	317	820	536
45.0	2020	1653	1286	573	324	297	249	282	669	371
47.5	2315	1854	1391	599	305	270	218	240	370	273
50.0	2712	2124	1508	622	278	221	176	198	204	214
52.5	3173	2398	1620	640	232	154	121	139	133	178
55.0	3479	2544	1646	623	171	102	86	91	93	147
57.5	3660	2579	1582	557	125	82	69	65	70	120
60.0	3784	2507	1383	466	107	72	57	50	56	100
62.5	3655	2183	1008	356	97	66	48	40	46	86
65.0	3087	1749	705	252	86	56	41	32	37	72
67.5	2248	1257	445	161	69	44	32	26	27	61
70.0	1177	646	240	100	49	32	22	18	19	48
72.5	439	279	139	70	36	22	15	13	12	36
75.0	215	162	106	59	27	15	9	7	6	24
77.5	123	107	86	52	19	11	5	5	4	15
80.0	91	81	73	45	15	7	5	4	3	9
82.5	67	60	59	35	9	5	5	4	3	5
85.0	43	39	42	21	5	5	5	4	2	4
87.5	19	16	21	9	4	4	4	3	2	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

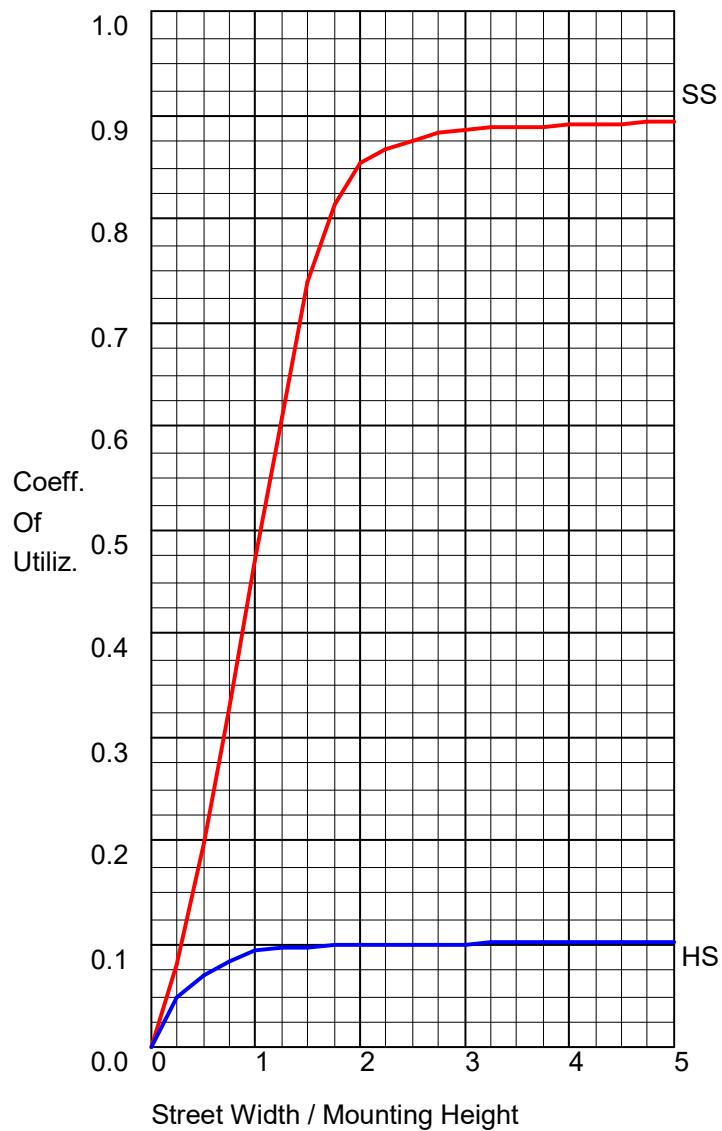
	<u>175.0</u>	<u>180.0</u>
0.0	804	804
2.5	809	814
5.0	831	836
7.5	827	824
10.0	709	697
12.5	527	520
15.0	419	416
17.5	365	363
20.0	329	327
22.5	304	301
25.0	304	299
27.5	331	320
30.0	378	357
32.5	400	376
35.0	436	410
37.5	436	391
40.0	336	293
42.5	239	211
45.0	183	165
47.5	152	133
50.0	135	112
52.5	125	97
55.0	120	90
57.5	121	92
60.0	125	101
62.5	130	112
65.0	130	121

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CANDELA TABULATION - (Cont.)

67.5	123	118
70.0	108	104
72.5	86	85
75.0	61	63
77.5	43	47
80.0	30	33
82.5	21	23
85.0	13	14
87.5	6	7
90.0	0	0

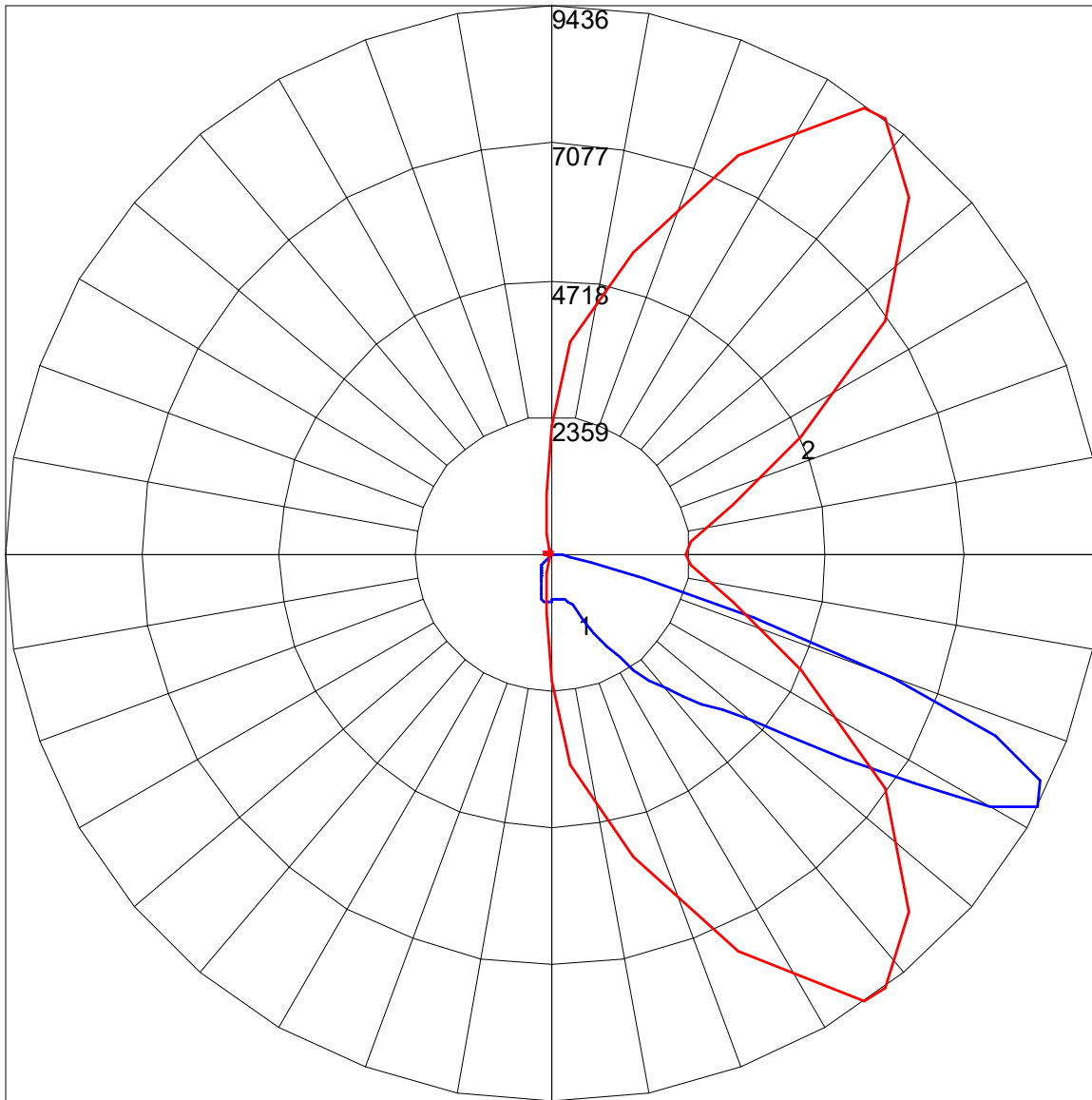
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

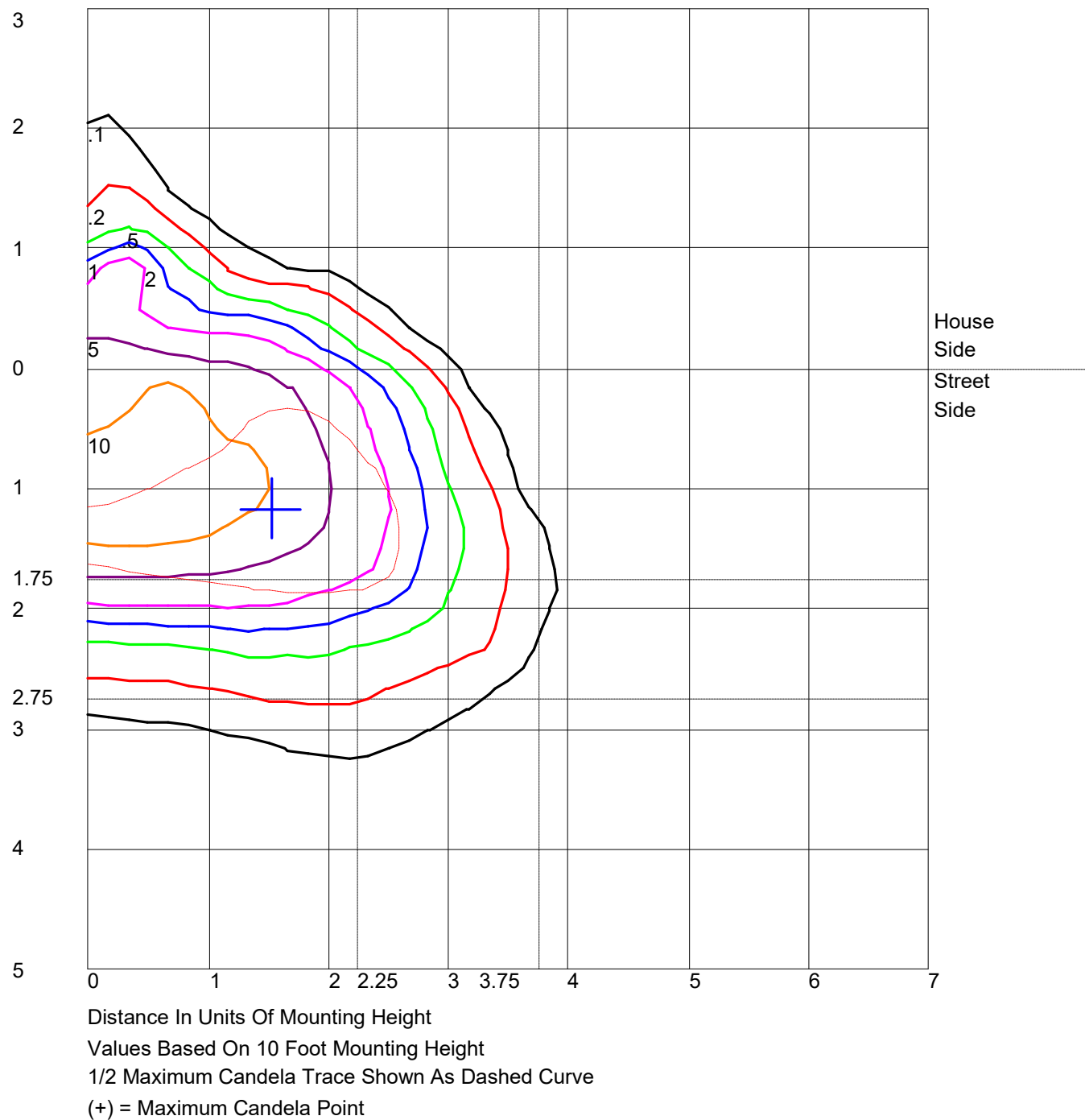
	Lumens	Percent Of Luminaire
Downward Street Side	7880.1	89.8
Downward House Side	893.6	10.2
Downward Total	8773.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8773.7	100.0

POLAR GRAPH

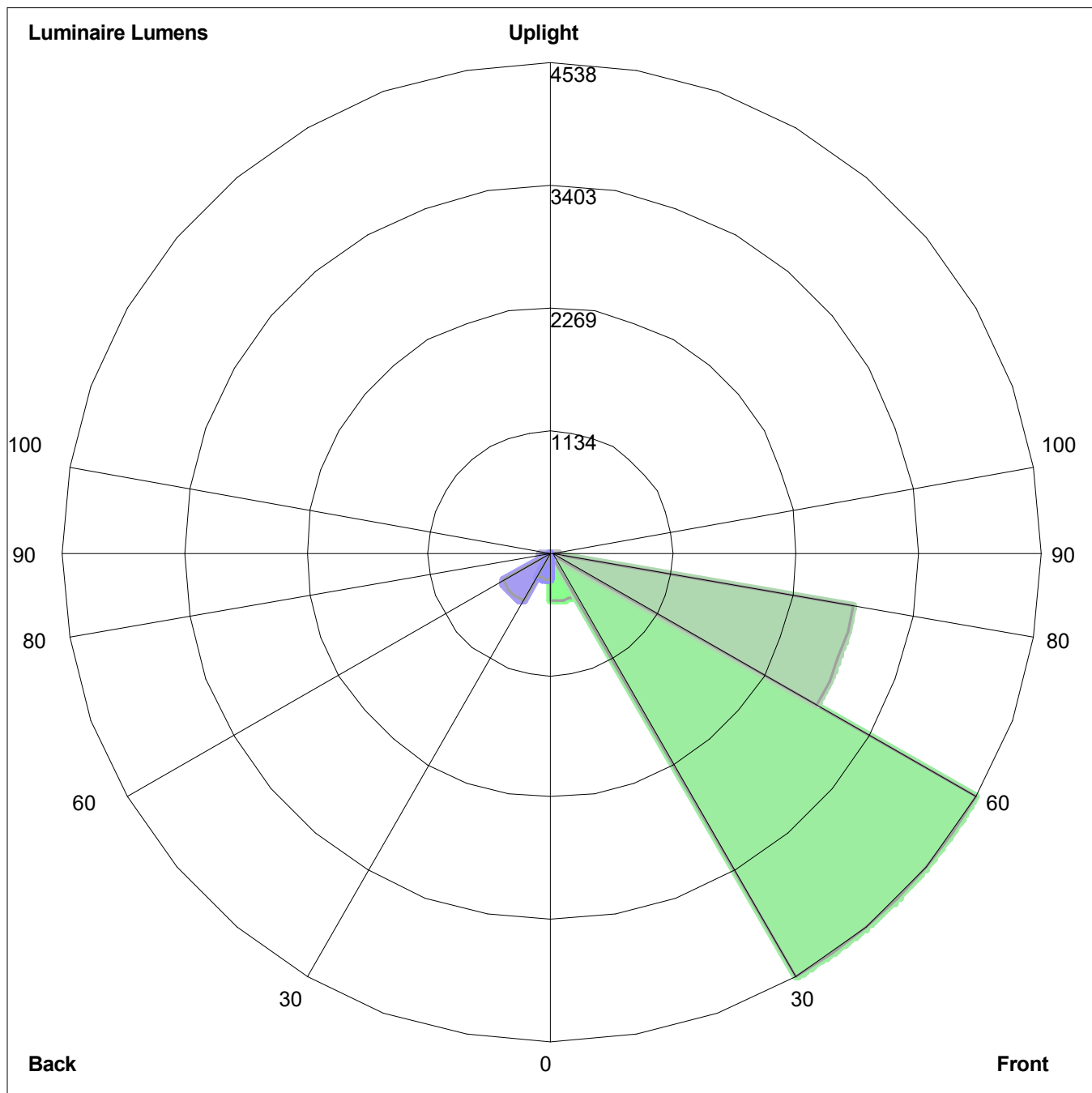


Maximum Candela = 9436 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=449.8, Medium= 4538.0, High=2835.8, Very High=56.5
Back: Low=250.5, Medium=522.8, High=114.2, Very High=6.0
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2