



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11782  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/29/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-FT-LED-05L-30  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5141
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3073
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3073
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1110 (21.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	305.3	N.A.	5.9
FM - Front-Medium (30-60)	1549.7	N.A.	30.1
FH - Front-High (60-80)	1758.1	N.A.	34.2
FVH - Front-Very High (80-90)	114.6	N.A.	2.2
BL - Back-Low (0-30)	321.1	N.A.	6.2
BM - Back-Medium (30-60)	748.4	N.A.	14.6
BH - Back-High (60-80)	317.2	N.A.	6.2
BVH - Back-Very High (80-90)	26.7	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5141.1	N.A.	100.0
BUG Rating	B1-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
<b>0.0</b>	706	706	706	706	706	706	706	706	706	706
<b>2.5</b>	692	694	697	698	701	701	703	703	705	707
<b>5.0</b>	666	668	672	676	684	685	690	695	701	706
<b>7.5</b>	632	634	640	646	658	663	670	684	698	707
<b>10.0</b>	606	608	614	624	638	645	655	672	694	711
<b>12.5</b>	591	592	600	612	627	637	648	669	695	720
<b>15.0</b>	590	591	598	611	628	639	651	673	700	729
<b>17.5</b>	605	607	613	623	642	653	663	684	709	736
<b>20.0</b>	637	639	645	655	668	677	685	701	721	746
<b>22.5</b>	685	687	694	701	708	713	717	725	739	756
<b>25.0</b>	743	745	753	758	762	760	759	755	758	766
<b>27.5</b>	813	818	822	826	825	817	811	793	782	777
<b>30.0</b>	890	897	901	902	897	885	873	838	809	788
<b>32.5</b>	982	981	986	986	976	964	947	897	840	800
<b>35.0</b>	1063	1065	1072	1075	1063	1053	1027	965	881	815
<b>37.5</b>	1148	1149	1162	1166	1156	1145	1114	1041	929	835
<b>40.0</b>	1235	1236	1252	1263	1255	1243	1216	1129	991	864
<b>42.5</b>	1322	1329	1342	1362	1361	1350	1320	1227	1064	906
<b>45.0</b>	1407	1414	1438	1464	1479	1463	1433	1335	1151	960
<b>47.5</b>	1486	1494	1526	1572	1596	1582	1554	1454	1252	1028
<b>50.0</b>	1552	1559	1603	1676	1712	1703	1680	1584	1369	1117
<b>52.5</b>	1596	1606	1661	1758	1825	1820	1809	1728	1504	1229
<b>55.0</b>	1614	1624	1689	1817	1918	1932	1946	1888	1661	1369
<b>57.5</b>	1614	1625	1698	1848	1987	2031	2078	2066	1849	1529
<b>60.0</b>	1615	1623	1700	1862	2040	2128	2208	2286	2063	1694
<b>62.5</b>	1636	1642	1720	1880	2095	2215	2339	2506	2276	1838
<b>65.0</b>	1708	1715	1788	1948	2178	2337	2510	2692	2434	1892
<b>67.5</b>	1783	1796	1913	2115	2381	2552	2705	2819	2450	1758
<b>70.0</b>	1774	1790	1936	2315	2727	2845	2916	2806	2167	1350
<b>72.5</b>	1641	1650	1843	2355	2973	3073	3021	2479	1568	831
<b>75.0</b>	1233	1233	1487	2051	2717	2901	2701	1789	964	487
<b>77.5</b>	621	672	910	1399	1945	2102	1873	1112	589	322
<b>80.0</b>	288	335	522	784	1071	1110	1078	673	365	194
<b>82.5</b>	153	166	321	467	494	598	590	359	206	103
<b>85.0</b>	112	119	205	275	309	302	283	154	102	57
<b>87.5</b>	77	83	124	143	179	133	61	53	33	25
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
<b>0.0</b>	706	706	706	706	706	706	706	706	706	706
<b>2.5</b>	709	711	711	709	714	713	713	713	712	712
<b>5.0</b>	712	715	716	718	721	720	719	717	716	715
<b>7.5</b>	716	721	723	725	726	723	723	725	727	729
<b>10.0</b>	724	730	731	730	730	730	735	740	743	746
<b>12.5</b>	737	742	744	739	737	741	749	754	758	760
<b>15.0</b>	750	755	755	745	743	752	761	765	769	769
<b>17.5</b>	762	770	768	751	752	762	771	773	774	773
<b>20.0</b>	773	781	778	753	760	769	777	777	776	776
<b>22.5</b>	783	791	787	755	765	775	779	779	778	778
<b>25.0</b>	787	796	792	752	766	778	780	778	778	779
<b>27.5</b>	789	797	791	746	763	776	776	775	777	778

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**CANDELA TABULATION - (Cont.)**

30.0	788	794	787	737	756	771	771	771	774	778
32.5	785	787	779	722	746	762	762	763	770	777
35.0	780	778	767	707	730	749	751	754	765	777
37.5	777	768	754	687	713	732	736	741	759	774
40.0	780	760	742	666	694	714	719	728	753	772
42.5	790	757	730	644	668	693	695	709	746	755
45.0	809	760	722	620	642	668	669	688	744	701
47.5	839	772	719	597	611	639	640	663	711	648
50.0	884	795	724	577	579	608	608	642	666	600
52.5	953	833	737	559	543	573	574	615	615	554
55.0	1036	883	760	544	508	538	539	578	566	512
57.5	1139	947	791	536	473	503	506	533	514	463
60.0	1240	1008	809	530	438	467	470	485	453	417
62.5	1301	1018	767	518	405	432	434	434	404	383
65.0	1273	937	638	488	369	395	393	395	366	357
67.5	1085	747	458	427	330	358	358	365	333	335
70.0	733	492	318	337	288	319	331	332	301	314
72.5	384	264	226	257	242	276	293	298	266	275
75.0	248	163	144	187	189	223	248	250	191	180
77.5	157	103	95	130	142	173	193	150	127	137
80.0	85	62	65	94	108	127	112	112	100	109
82.5	54	42	45	68	81	71	79	84	69	80
85.0	32	22	25	43	39	44	49	48	34	50
87.5	11	5	8	15	16	17	16	17	14	22
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

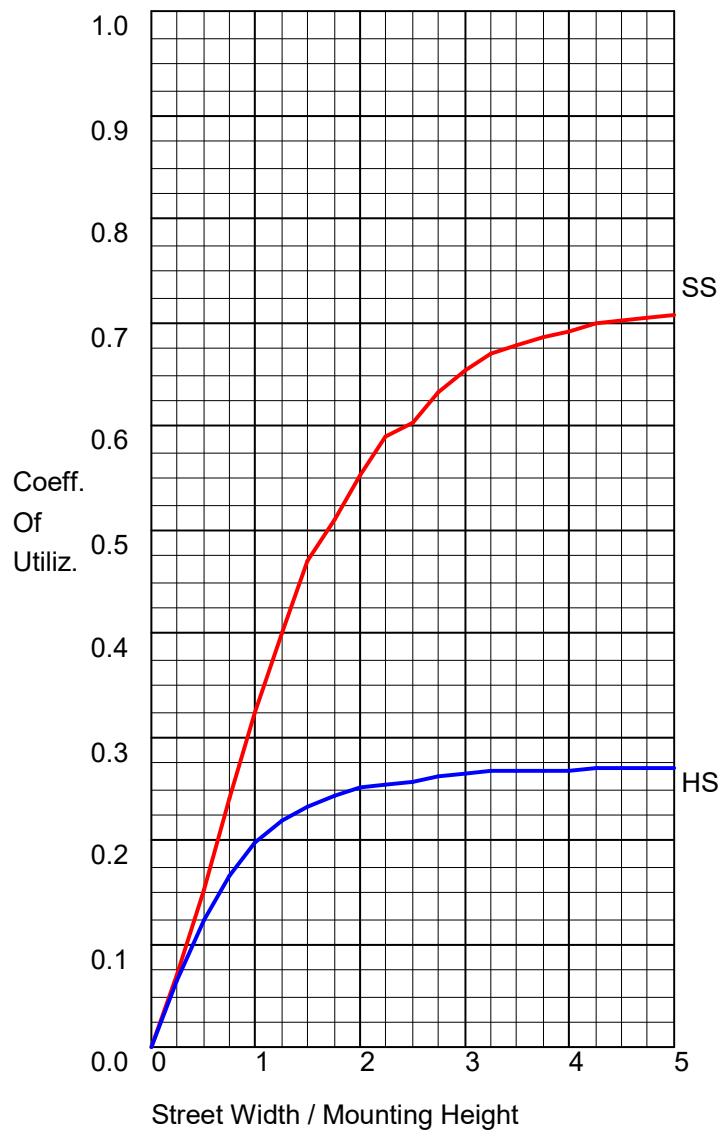
	<b>175</b>	<b>180</b>
0.0	706	706
2.5	711	709
5.0	714	713
7.5	728	727
10.0	745	744
12.5	759	758
15.0	768	767
17.5	772	771
20.0	774	773
22.5	776	775
25.0	778	776
27.5	779	777
30.0	779	777
32.5	779	776
35.0	776	774
37.5	771	766
40.0	762	755
42.5	702	694
45.0	648	641
47.5	603	597
50.0	563	557
52.5	521	515
55.0	481	474
57.5	430	419
60.0	391	379
62.5	361	352
65.0	344	336

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	331	322
<b>70.0</b>	317	307
<b>72.5</b>	285	276
<b>75.0</b>	200	198
<b>77.5</b>	176	177
<b>80.0</b>	148	154
<b>82.5</b>	116	123
<b>85.0</b>	80	89
<b>87.5</b>	43	51
<b>90.0</b>	0	0

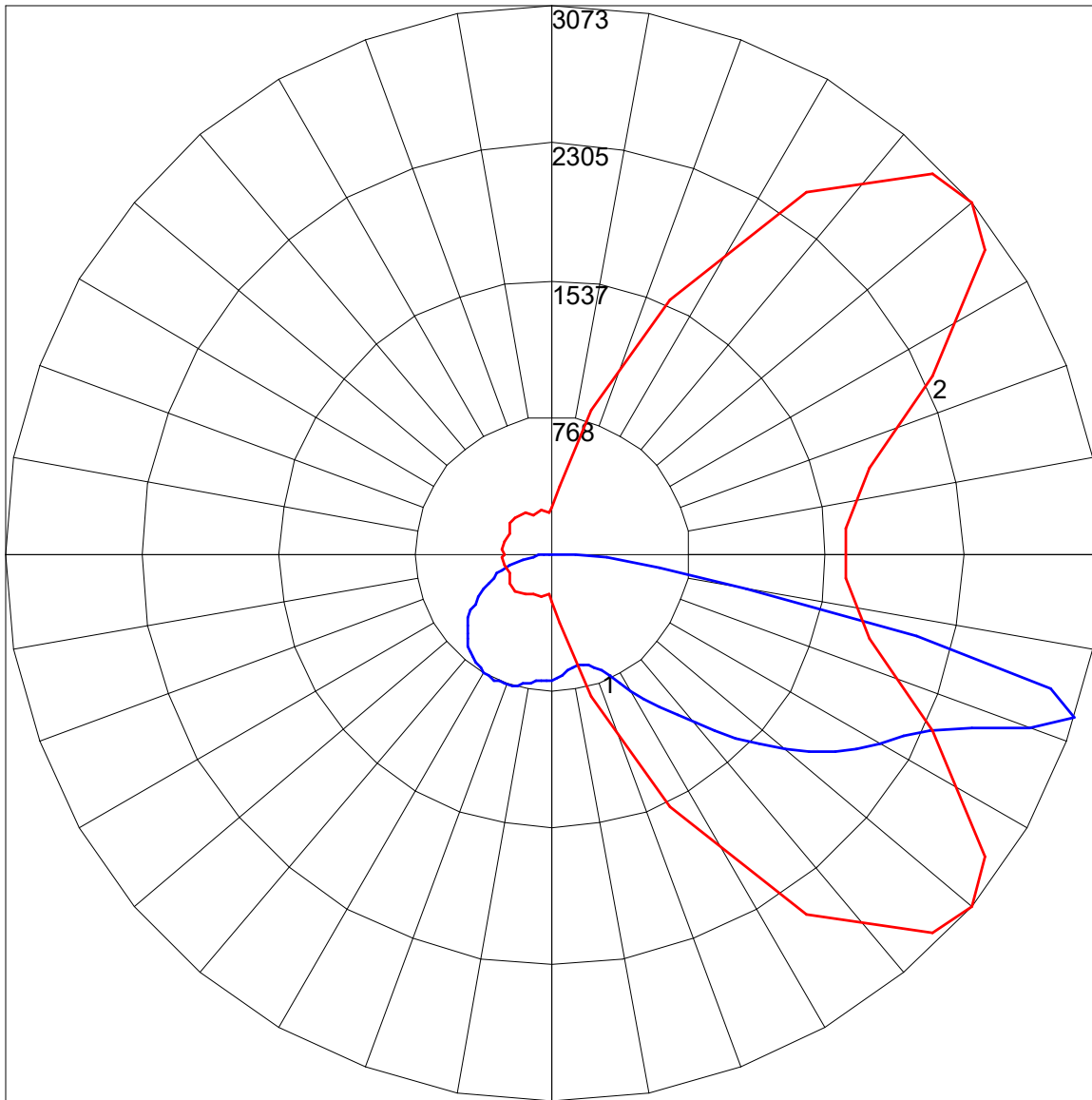
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

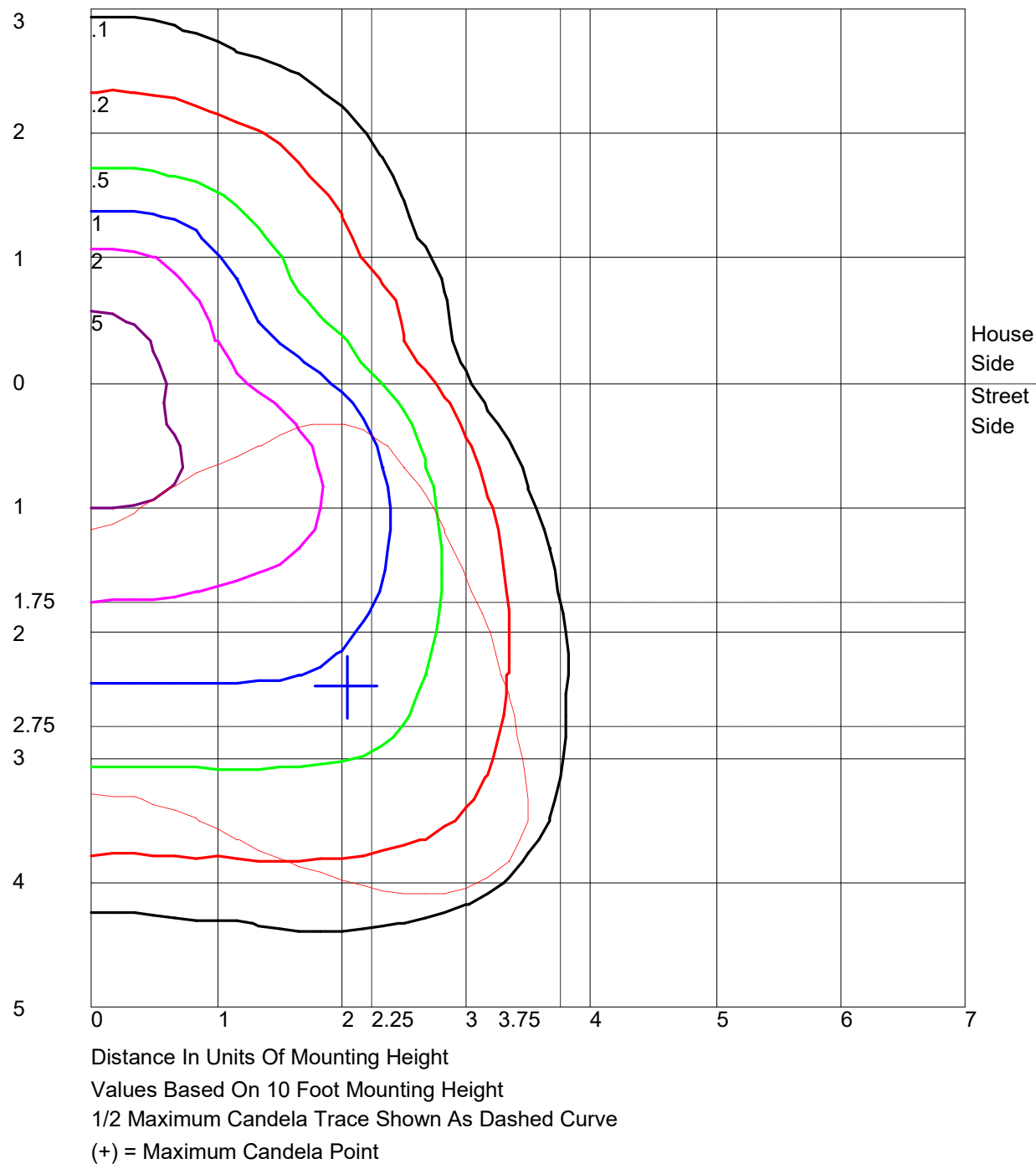
	Lumens	Percent Of Luminaire
Downward Street Side	3727.7	72.5
Downward House Side	1413.4	27.5
Downward Total	5141.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5141.1	100.0

POLAR GRAPH



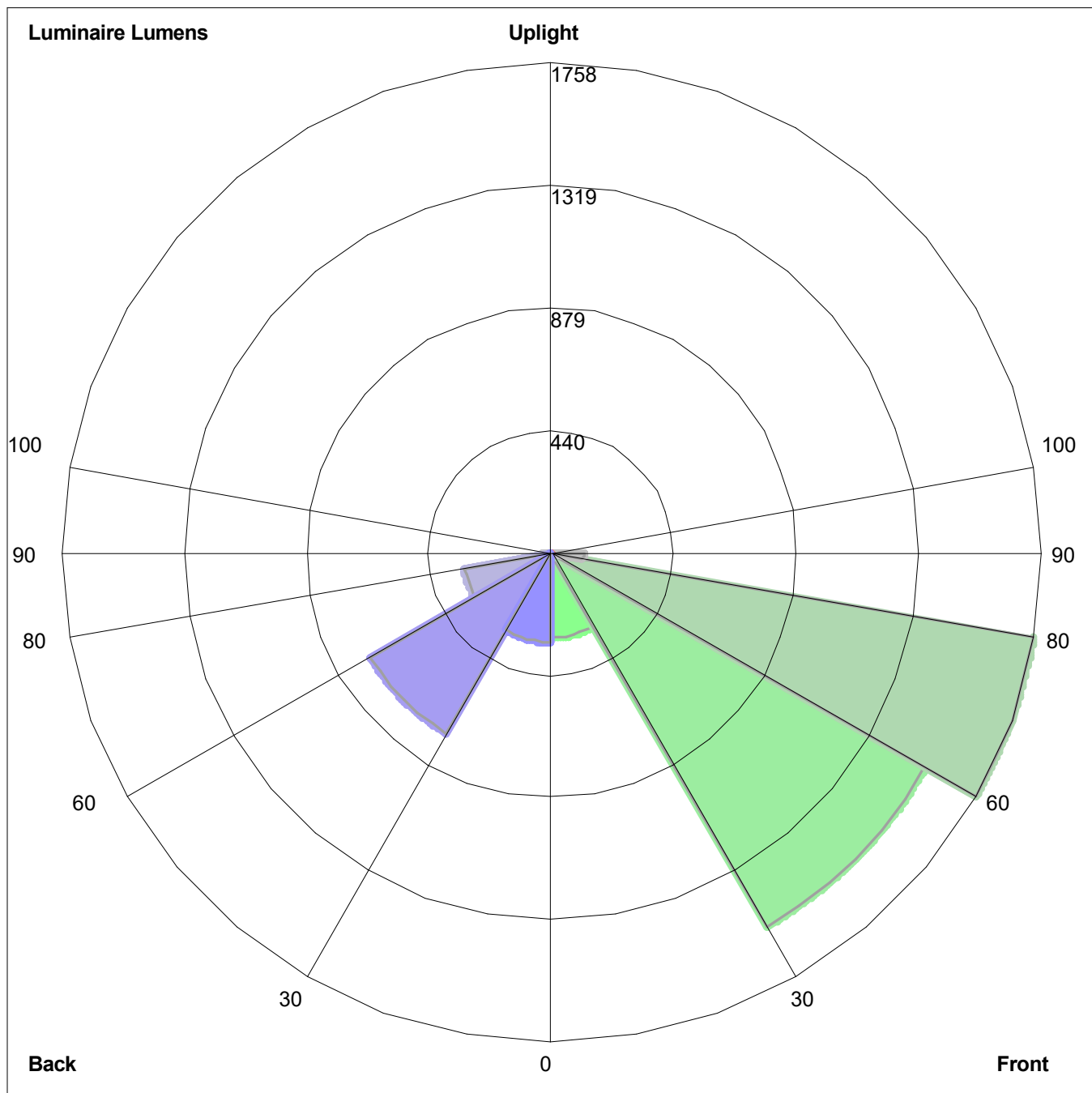
Maximum Candela = 3073 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=305.3, Medium=1549.7, High=1758.1, Very High=114.6  
Back: Low=321.1, Medium=748.4, High=317.2, Very High=26.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2