



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-05L-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11778  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/29/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-2-LED-05L-40  
[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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5764
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4871
Maximum Candela Angle	80H 65V
Maximum Candela (<90 Degrees Vertical)	4871
Maximum Candela Angle (<90 Degrees Vertical)	80H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	343 (6.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	407.3	N.A.	7.1
FM - Front-Medium (30-60)	2136.0	N.A.	37.1
FH - Front-High (60-80)	1200.9	N.A.	20.8
FVH - Front-Very High (80-90)	24.6	N.A.	0.4
BL - Back-Low (0-30)	344.3	N.A.	6.0
BM - Back-Medium (30-60)	1197.3	N.A.	20.8
BH - Back-High (60-80)	422.9	N.A.	7.3
BVH - Back-Very High (80-90)	30.1	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	5763.4	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>80</b>
<b>0.0</b>	793	793	793	793	793	793	793	793	793	793
<b>2.5</b>	810	813	812	811	811	808	806	802	798	796
<b>5.0</b>	829	831	831	831	829	826	822	816	810	806
<b>7.5</b>	844	846	846	846	845	843	839	833	825	820
<b>10.0</b>	857	859	859	861	862	863	859	855	845	840
<b>12.5</b>	868	870	872	876	883	885	885	883	873	866
<b>15.0</b>	873	876	880	890	902	912	916	915	906	897
<b>17.5</b>	878	881	889	903	921	939	950	954	944	935
<b>20.0</b>	883	886	897	918	941	967	993	1002	990	979
<b>22.5</b>	892	895	911	935	963	995	1033	1056	1046	1034
<b>25.0</b>	909	912	929	956	989	1028	1076	1118	1116	1103
<b>27.5</b>	938	943	958	987	1022	1063	1122	1189	1202	1184
<b>30.0</b>	987	992	1003	1029	1065	1107	1175	1266	1295	1277
<b>32.5</b>	1059	1065	1073	1092	1122	1162	1235	1342	1395	1384
<b>35.0</b>	1161	1167	1168	1177	1200	1234	1305	1419	1503	1496
<b>37.5</b>	1291	1298	1299	1297	1302	1328	1388	1500	1619	1625
<b>40.0</b>	1451	1457	1457	1445	1436	1453	1492	1582	1746	1760
<b>42.5</b>	1621	1637	1632	1627	1618	1612	1620	1666	1862	1898
<b>45.0</b>	1761	1774	1776	1798	1827	1830	1788	1770	1981	2044
<b>47.5</b>	1829	1833	1848	1906	2005	2082	2048	1918	2125	2226
<b>50.0</b>	1786	1796	1827	1924	2107	2313	2368	2119	2304	2445
<b>52.5</b>	1643	1647	1698	1837	2099	2461	2739	2403	2521	2708
<b>55.0</b>	1400	1401	1449	1621	1936	2454	3079	2802	2811	3042
<b>57.5</b>	1097	1094	1138	1282	1623	2249	3328	3285	3147	3467
<b>60.0</b>	788	780	789	896	1203	1835	3406	3756	3583	3959
<b>62.5</b>	541	534	523	582	777	1280	3201	4076	4125	4526
<b>65.0</b>	377	367	365	394	476	733	2640	4089	4550	4871
<b>67.5</b>	254	260	264	285	333	441	1776	3636	4571	4645
<b>70.0</b>	182	189	193	213	252	310	1020	2689	3874	3592
<b>72.5</b>	109	114	124	155	192	237	554	1717	2458	1974
<b>75.0</b>	60	66	62	87	124	184	319	1048	1109	751
<b>77.5</b>	49	57	46	53	70	120	206	623	535	317
<b>80.0</b>	48	54	40	39	49	81	116	343	284	169
<b>82.5</b>	49	50	33	27	32	57	62	168	150	97
<b>85.0</b>	40	41	24	18	19	34	38	47	66	49
<b>87.5</b>	20	19	13	9	8	13	14	12	14	14
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>85</b>	<b>90</b>	<b>95</b>	<b>105</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>145</b>	<b>155</b>	<b>165</b>
<b>0.0</b>	793	793	793	793	793	793	793	793	793	793
<b>2.5</b>	797	796	794	789	788	786	782	779	778	774
<b>5.0</b>	805	801	796	786	777	769	759	750	744	740
<b>7.5</b>	816	811	802	784	767	751	734	720	712	706
<b>10.0</b>	834	826	813	786	759	733	711	695	688	684
<b>12.5</b>	858	848	830	791	752	719	696	684	685	688
<b>15.0</b>	888	873	852	798	747	706	687	689	701	712
<b>17.5</b>	922	904	878	808	739	696	690	707	733	754
<b>20.0</b>	965	943	910	820	733	693	706	741	780	808
<b>22.5</b>	1018	992	952	838	730	701	735	788	837	873
<b>25.0</b>	1084	1054	1005	860	735	723	777	844	905	951
<b>27.5</b>	1163	1128	1066	884	747	757	831	909	981	1030

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**CANDELA TABULATION - (Cont.)**

30.0	1253	1213	1144	912	771	803	889	978	1055	1106
32.5	1354	1308	1225	944	808	856	948	1044	1126	1171
35.0	1468	1415	1310	978	855	907	1000	1096	1175	1217
37.5	1591	1534	1400	1015	905	954	1036	1125	1204	1239
40.0	1734	1658	1499	1052	951	988	1053	1131	1197	1216
42.5	1878	1789	1596	1091	988	1005	1048	1105	1145	1142
45.0	2036	1930	1694	1126	1012	1003	1018	1043	1051	1029
47.5	2222	2092	1797	1156	1020	979	964	957	936	904
50.0	2446	2278	1904	1190	1019	937	896	860	818	784
52.5	2710	2488	2013	1223	1010	879	820	769	720	691
55.0	3031	2726	2120	1254	993	816	747	699	647	618
57.5	3422	2989	2210	1271	968	752	680	646	564	541
60.0	3841	3210	2238	1260	926	689	621	588	488	466
62.5	4187	3295	2128	1189	851	612	550	510	404	372
65.0	4250	3082	1808	1013	731	510	452	416	318	284
67.5	3768	2450	1281	752	556	393	350	320	237	216
70.0	2683	1583	776	495	401	295	268	236	187	177
72.5	1347	804	467	322	284	219	205	184	151	137
75.0	462	348	290	225	206	173	161	141	106	86
77.5	208	186	188	167	155	139	119	88	70	69
80.0	124	109	110	130	124	103	73	66	71	79
82.5	75	58	54	100	94	60	54	61	118	112
85.0	38	28	29	67	39	38	42	61	120	97
87.5	12	8	9	11	11	13	16	24	57	36
90.0	0	0	0	0	0	0	0	0	0	0

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

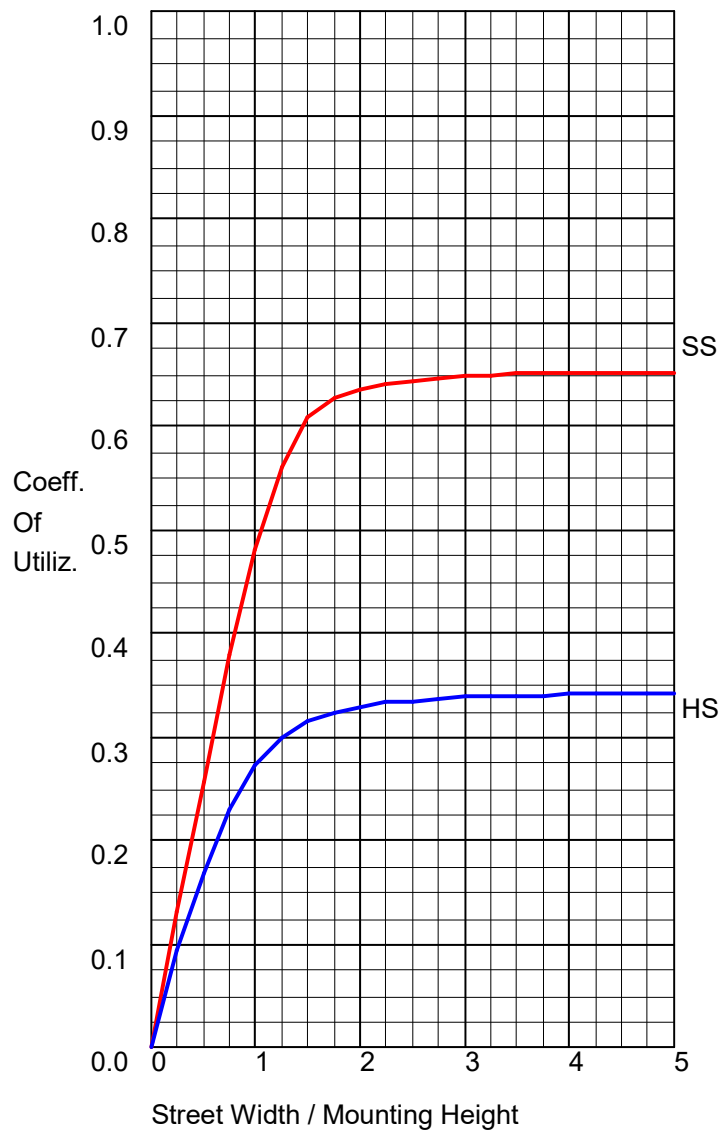
	<u>175</u>	<u>180</u>
0.0	793	793
2.5	775	775
5.0	739	739
7.5	704	704
10.0	683	684
12.5	689	690
15.0	719	719
17.5	766	765
20.0	825	824
22.5	897	901
25.0	975	981
27.5	1056	1061
30.0	1132	1137
32.5	1192	1198
35.0	1234	1239
37.5	1246	1250
40.0	1214	1217
42.5	1131	1134
45.0	1009	1017
47.5	881	875
50.0	758	758
52.5	673	673
55.0	598	596
57.5	522	520
60.0	442	440
62.5	352	349
65.0	266	263

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	211	211
<b>70.0</b>	180	180
<b>72.5</b>	145	149
<b>75.0</b>	99	110
<b>77.5</b>	83	97
<b>80.0</b>	98	107
<b>82.5</b>	119	121
<b>85.0</b>	97	99
<b>87.5</b>	24	24
<b>90.0</b>	0	0

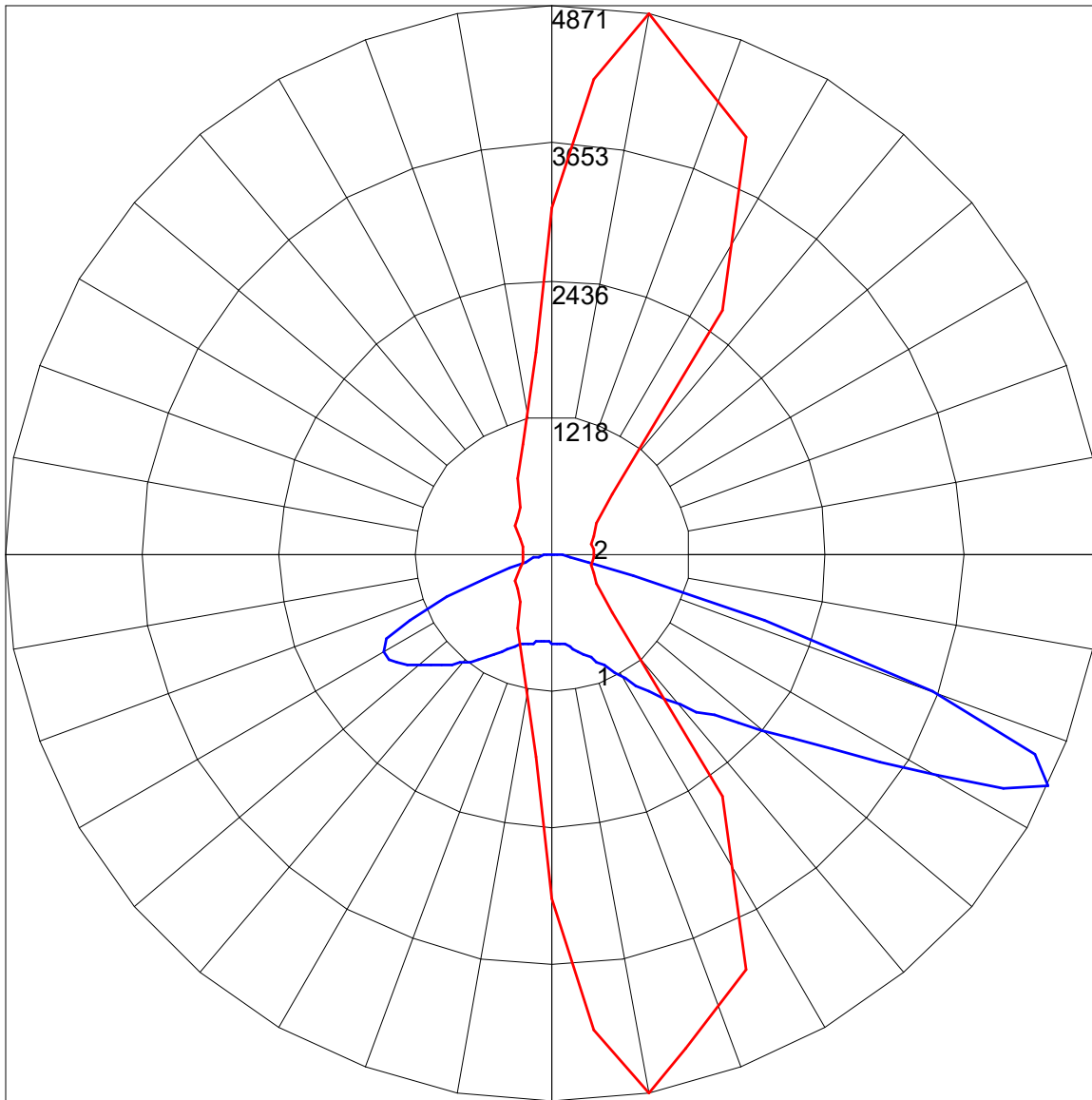
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

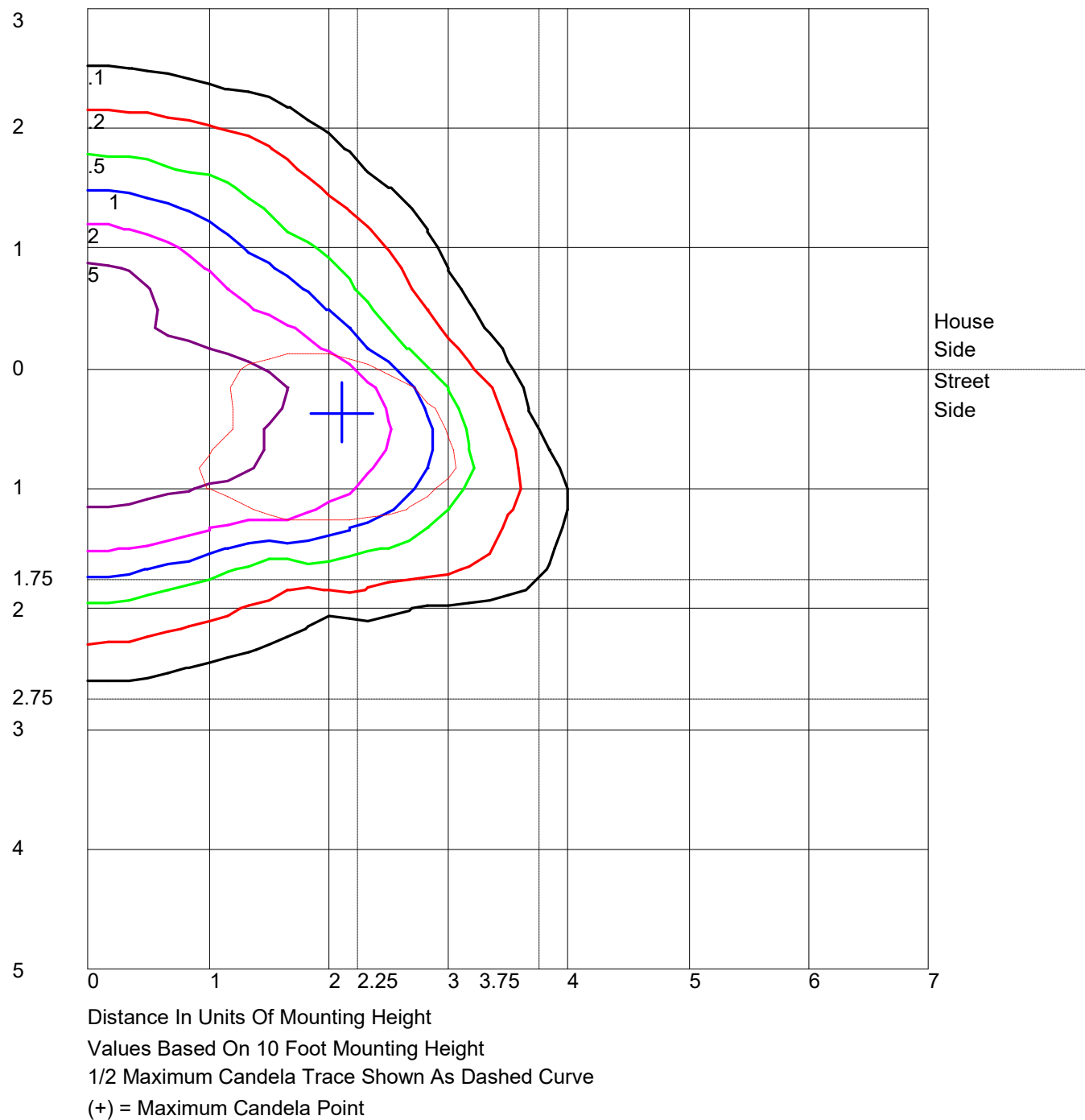
	Lumens	Percent Of Luminaire
Downward Street Side	3768.9	65.4
Downward House Side	1994.7	34.6
Downward Total	5763.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5763.5	100.0

POLAR GRAPH



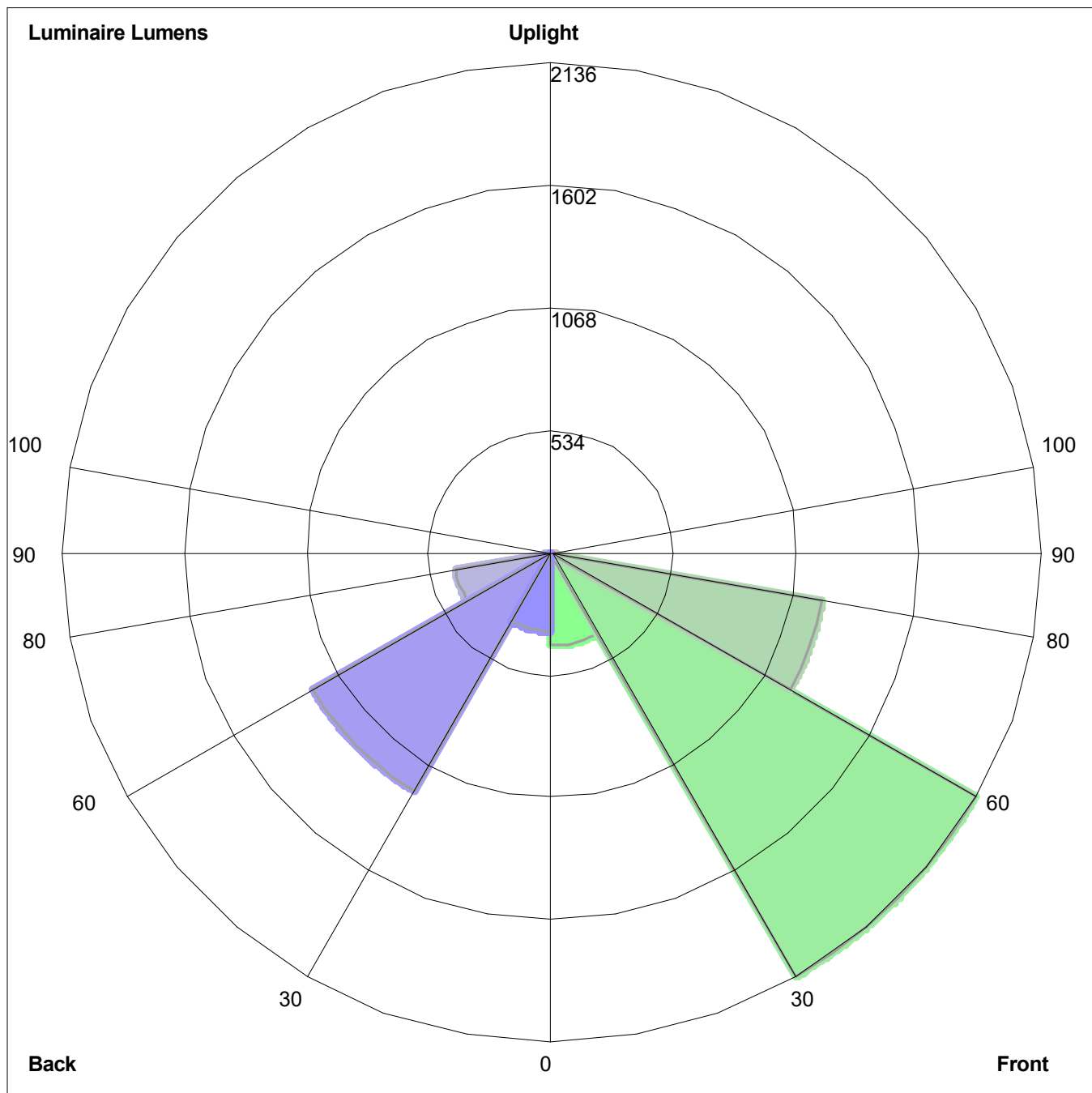
Maximum Candela = 4871 Located At Horizontal Angle = 80, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
 Front: Low=407.3, Medium= 2136.0, High=1200.9, Very High=24.6  
 Back: Low=344.3, Medium=1197.3, High=422.9, Very High=30.1  
 Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1