



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-30.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11784

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-LED-10L-30

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[FACTORED] SCALED FROM ORIGINAL TEST DATA

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9219
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4853
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	4853
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	644 (7.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-30.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	410.5	N.A.	4.5
FM - Front-Medium (30-60)	1890.4	N.A.	20.5
FH - Front-High (60-80)	2267.4	N.A.	24.6
FVH - Front-Very High (80-90)	41.2	N.A.	0.4
BL - Back-Low (0-30)	410.5	N.A.	4.5
BM - Back-Medium (30-60)	1890.4	N.A.	20.5
BH - Back-High (60-80)	2267.4	N.A.	24.6
BVH - Back-Very High (80-90)	41.2	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	9219.0	N.A.	100.0
BUG Rating	B3-U0-G2		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-30.IES**

**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>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	805	805	805	805	805	805	805	805	805	805
<b>2.5</b>	809	809	807	807	809	809	809	809	807	807
<b>5.0</b>	812	812	812	812	813	813	813	813	812	812
<b>7.5</b>	820	820	820	823	823	823	825	823	822	823
<b>10.0</b>	834	834	834	836	838	838	840	838	838	838
<b>12.5</b>	853	853	855	859	859	861	861	857	857	856
<b>15.0</b>	879	880	882	887	891	891	889	885	882	882
<b>17.5</b>	908	908	915	921	927	927	925	916	913	910
<b>20.0</b>	942	942	950	961	972	973	969	954	946	939
<b>22.5</b>	978	978	990	1008	1022	1026	1018	1001	982	973
<b>25.0</b>	1016	1018	1032	1057	1079	1085	1075	1049	1022	1008
<b>27.5</b>	1054	1057	1077	1111	1140	1151	1137	1102	1067	1047
<b>30.0</b>	1094	1098	1124	1168	1209	1224	1204	1159	1114	1088
<b>32.5</b>	1137	1140	1174	1225	1277	1297	1274	1218	1166	1136
<b>35.0</b>	1183	1187	1229	1288	1349	1372	1347	1284	1224	1187
<b>37.5</b>	1233	1238	1284	1354	1423	1451	1421	1353	1286	1245
<b>40.0</b>	1288	1294	1343	1425	1499	1533	1501	1429	1353	1312
<b>42.5</b>	1349	1356	1410	1498	1583	1619	1583	1506	1426	1382
<b>45.0</b>	1419	1426	1485	1573	1664	1708	1671	1584	1505	1452
<b>47.5</b>	1501	1506	1563	1651	1746	1799	1761	1671	1584	1529
<b>50.0</b>	1591	1592	1651	1743	1837	1892	1851	1763	1671	1615
<b>52.5</b>	1683	1687	1744	1841	1939	1996	1953	1864	1765	1702
<b>55.0</b>	1792	1799	1851	1947	2048	2111	2060	1970	1872	1801
<b>57.5</b>	1917	1926	1983	2078	2186	2256	2187	2093	1991	1915
<b>60.0</b>	2086	2096	2153	2240	2371	2447	2354	2249	2153	2063
<b>62.5</b>	2300	2314	2390	2502	2633	2718	2594	2466	2354	2261
<b>65.0</b>	2498	2516	2631	2808	3027	3146	2945	2757	2639	2536
<b>67.5</b>	2570	2601	2804	3130	3541	3811	3496	3176	3002	2846
<b>70.0</b>	2176	2215	2532	3146	4087	4704	4155	3499	2908	2527
<b>72.5</b>	1242	1307	1704	2419	3648	4853	3864	2707	1999	1651
<b>75.0</b>	395	407	614	1201	2441	3591	2645	1463	882	694
<b>77.5</b>	198	199	253	425	923	1748	1174	619	366	304
<b>80.0</b>	78	76	98	178	371	644	482	263	154	129
<b>82.5</b>	44	42	46	68	131	239	162	105	78	80
<b>85.0</b>	26	25	25	34	55	83	68	54	42	47
<b>87.5</b>	10	10	10	13	19	26	21	18	15	15
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

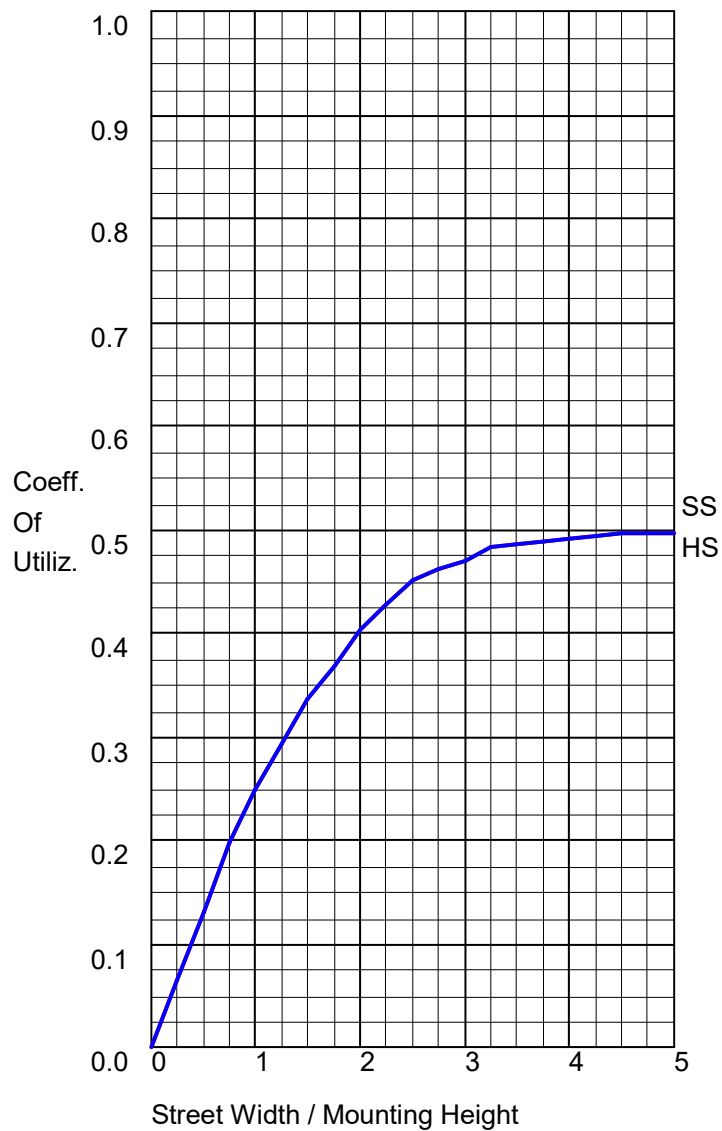
<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u>90</u>
<b>0.0</b>	805
<b>2.5</b>	807
<b>5.0</b>	812
<b>7.5</b>	822
<b>10.0</b>	836
<b>12.5</b>	857
<b>15.0</b>	880
<b>17.5</b>	908
<b>20.0</b>	939
<b>22.5</b>	972
<b>25.0</b>	1008
<b>27.5</b>	1043

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-10L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	1085
<b>32.5</b>	1130
<b>35.0</b>	1184
<b>37.5</b>	1243
<b>40.0</b>	1305
<b>42.5</b>	1379
<b>45.0</b>	1449
<b>47.5</b>	1526
<b>50.0</b>	1613
<b>52.5</b>	1699
<b>55.0</b>	1799
<b>57.5</b>	1911
<b>60.0</b>	2058
<b>62.5</b>	2266
<b>65.0</b>	2537
<b>67.5</b>	2846
<b>70.0</b>	2508
<b>72.5</b>	1627
<b>75.0</b>	691
<b>77.5</b>	289
<b>80.0</b>	131
<b>82.5</b>	82
<b>85.0</b>	44
<b>87.5</b>	13
<b>90.0</b>	0

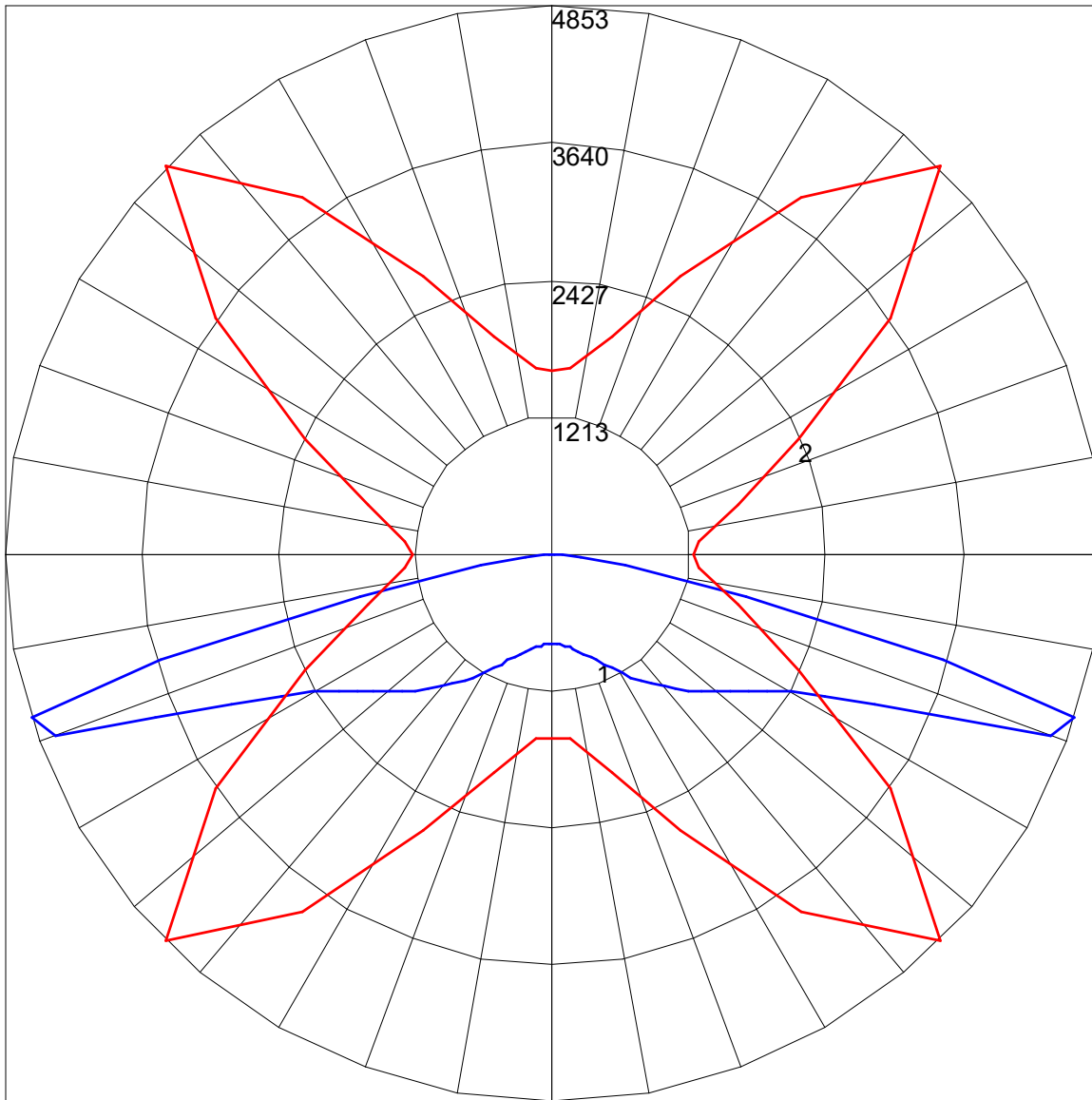
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

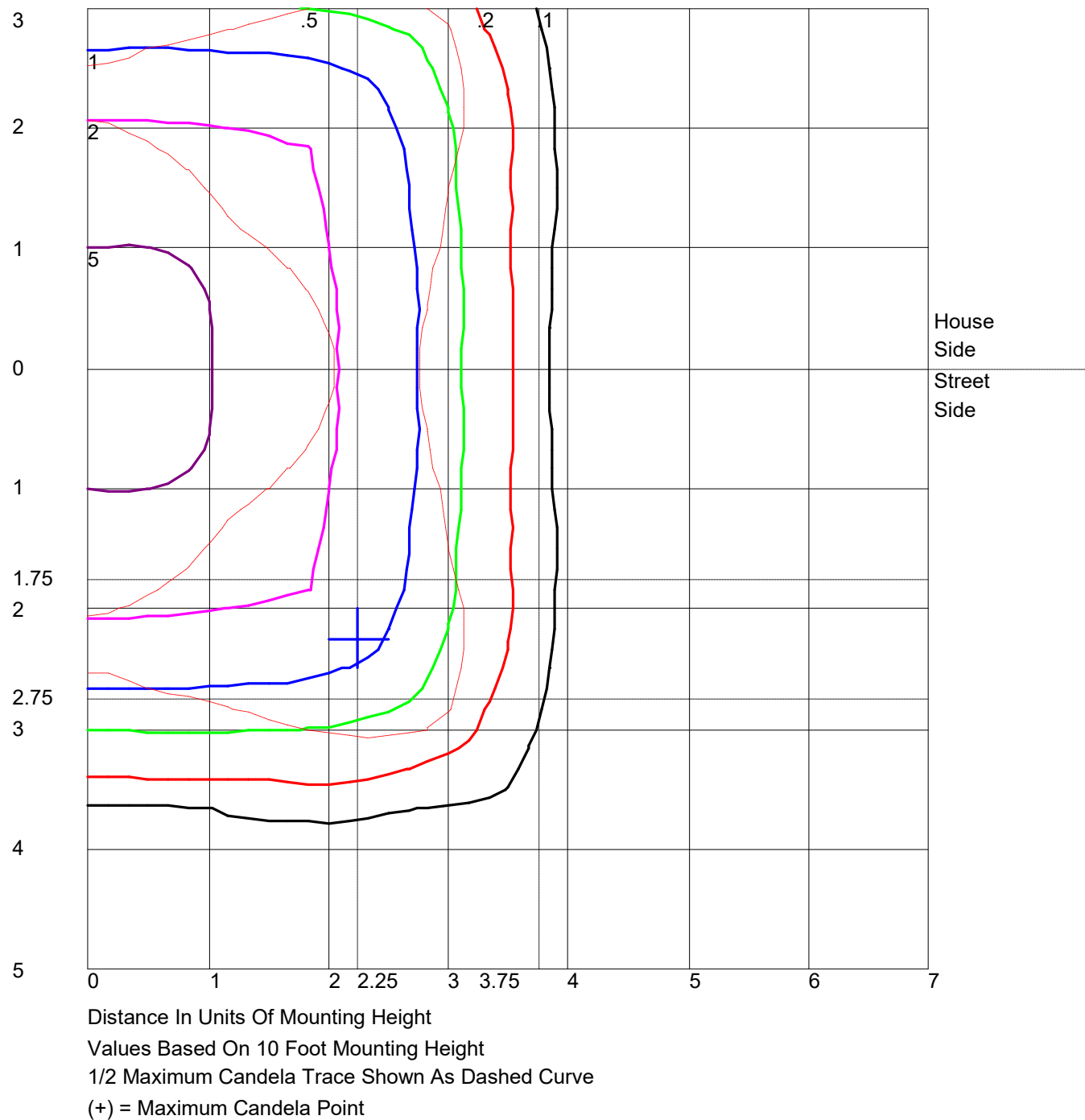
	Lumens	Percent Of Luminaire
Downward Street Side	4609.4	50.0
Downward House Side	4609.4	50.0
Downward Total	9218.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9218.8	100.0

POLAR GRAPH

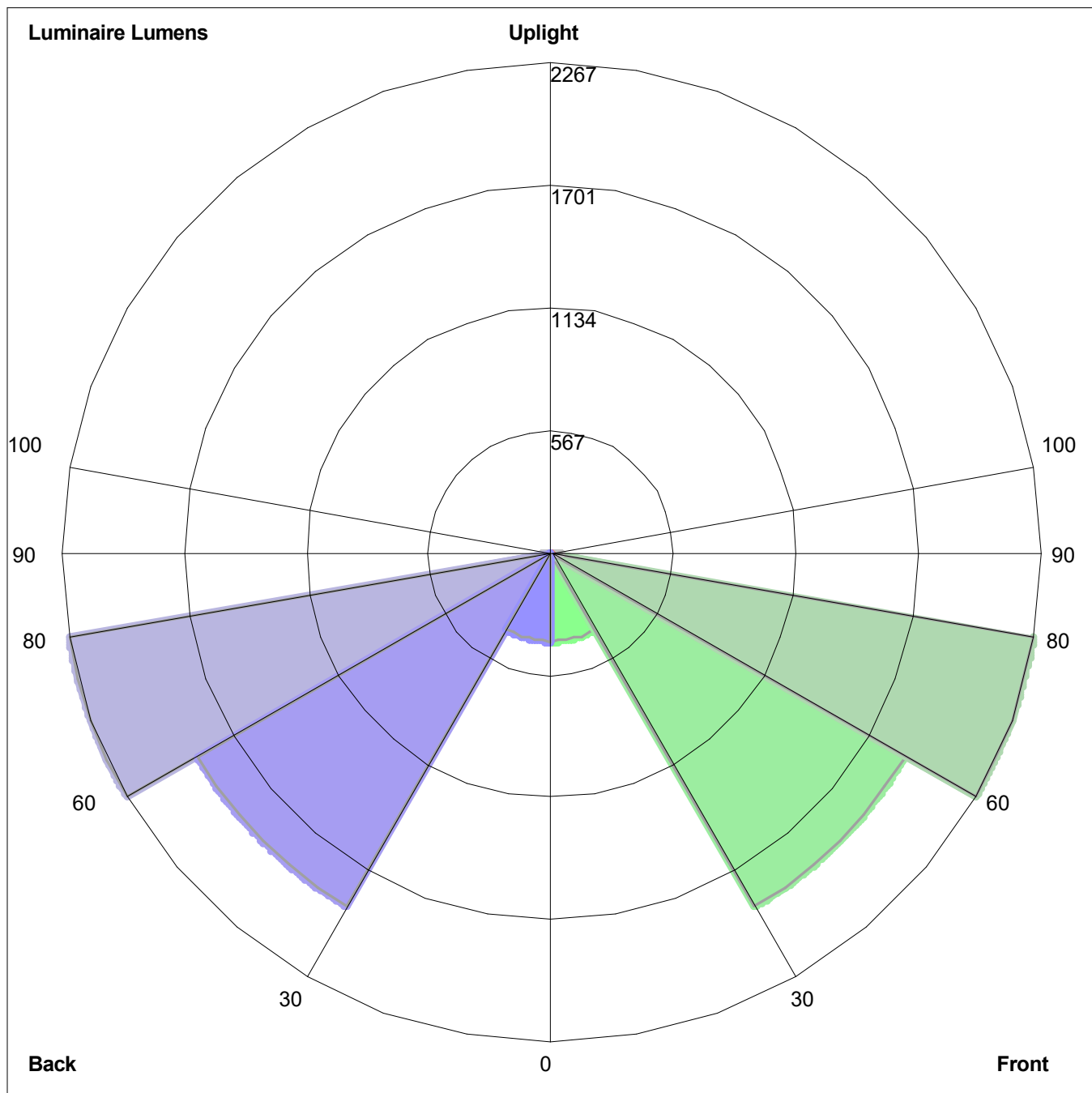


Maximum Candela = 4853 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=410.5, Medium=1890.4, High=2267.4, Very High=41.2  
Back: Low=410.5, Medium=1890.4, High=2267.4, Very High=41.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2