



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11801

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/05/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-3-LED-18L-50

[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21599
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	149.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22148
Maximum Candela Angle	55H 65V
Maximum Candela (<90 Degrees Vertical)	22148
Maximum Candela Angle (<90 Degrees Vertical)	55H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1154 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	903.5	N.A.	4.2
FM - Front-Medium (30-60)	9405.4	N.A.	43.5
FH - Front-High (60-80)	6528.5	N.A.	30.2
FVH - Front-Very High (80-90)	151.0	N.A.	0.7
BL - Back-Low (0-30)	835.8	N.A.	3.9
BM - Back-Medium (30-60)	2565.8	N.A.	11.9
BH - Back-High (60-80)	1110.8	N.A.	5.1
BVH - Back-Very High (80-90)	98.7	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	21599.5	N.A.	100.0
BUG Rating	B3-U0-G3		

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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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1686	1686	1686	1686	1686	1686	1686	1686	1686	1686
2.5	1650	1656	1657	1661	1667	1668	1672	1673	1676	1679
5.0	1617	1622	1627	1633	1645	1651	1656	1659	1669	1674
7.5	1569	1576	1581	1594	1612	1631	1643	1648	1665	1671
10.0	1519	1530	1537	1553	1581	1603	1632	1637	1662	1674
12.5	1488	1495	1507	1528	1563	1592	1629	1636	1663	1677
15.0	1490	1496	1509	1533	1573	1614	1647	1657	1677	1692
17.5	1545	1551	1570	1603	1644	1684	1714	1730	1742	1737
20.0	1689	1697	1724	1761	1802	1837	1875	1879	1881	1850
22.5	1987	2012	2016	2046	2079	2106	2135	2134	2113	2034
25.0	2408	2433	2444	2479	2506	2517	2532	2520	2465	2326
27.5	3010	2971	2982	3017	3058	3117	3040	3017	2940	2732
30.0	3550	3522	3551	3608	3677	3739	3620	3586	3473	3183
32.5	4002	4017	4061	4192	4315	4411	4245	4182	4004	3631
35.0	4430	4454	4517	4726	4938	5083	4888	4766	4487	4021
37.5	4889	4920	5039	5253	5577	5715	5469	5326	4924	4372
40.0	5464	5497	5609	5861	6163	6316	6010	5863	5367	4684
42.5	6292	6324	6404	6583	6799	6907	6512	6379	5775	4968
45.0	7465	7496	7531	7679	7640	7557	7036	6883	6169	5286
47.5	9213	9195	9316	9283	8943	8379	7651	7419	6582	5641
50.0	11472	11552	11640	11552	10773	9571	8380	8080	7093	6110
52.5	13303	13397	13841	14163	13237	11373	9390	8987	7832	6863
55.0	13856	13877	14650	15806	15797	13699	10897	10296	9016	8179
57.5	12754	12870	14187	15720	17379	16311	13110	12421	10995	10168
60.0	9054	9258	11282	14451	17457	18420	16956	16440	14341	12300
62.5	4742	4885	6333	10383	15422	19076	20989	20841	17310	13271
65.0	2319	2388	3082	5425	11406	17795	22148	22135	18567	13090
67.5	1380	1414	1708	2654	6608	13748	20427	20752	17797	10880
70.0	875	894	1041	1624	3299	8316	15667	16285	13746	6004
72.5	560	572	745	1127	2103	4396	9549	10278	6997	2403
75.0	385	407	546	921	1602	2220	4475	4752	3124	1041
77.5	287	302	402	776	1388	1423	1944	2243	1473	493
80.0	203	210	311	652	1154	1021	883	916	666	333
82.5	134	146	235	462	879	653	551	598	450	246
85.0	104	110	171	348	479	360	274	294	258	157
87.5	98	107	122	248	277	118	111	103	100	82
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	1686	1686	1686	1686	1686	1686	1686	1686	1686	1686
2.5	1688	1696	1697	1699	1706	1718	1719	1717	1723	1722
5.0	1692	1705	1709	1724	1739	1761	1770	1772	1782	1784
7.5	1692	1709	1723	1748	1770	1802	1823	1841	1855	1865
10.0	1694	1708	1732	1765	1801	1845	1879	1898	1918	1926
12.5	1698	1710	1739	1776	1825	1885	1926	1949	1973	1979
15.0	1705	1716	1740	1783	1849	1915	1966	1990	2017	2023
17.5	1737	1739	1751	1797	1866	1944	2000	2025	2051	2056
20.0	1805	1784	1785	1813	1884	1970	2025	2052	2078	2078
22.5	1937	1889	1855	1839	1898	1996	2051	2079	2106	2103
25.0	2145	2047	1968	1873	1915	2031	2078	2108	2139	2143
27.5	2451	2273	2118	1906	1928	2073	2120	2148	2187	2209

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CANDELA TABULATION - (Cont.)

30.0	2744	2499	2268	1929	1929	2105	2156	2200	2285	2325
32.5	3016	2688	2391	1929	1918	2122	2178	2265	2427	2541
35.0	3251	2838	2478	1914	1896	2119	2187	2344	2597	2790
37.5	3460	2967	2537	1882	1860	2106	2182	2354	2744	2962
40.0	3667	3088	2581	1841	1805	2065	2147	2315	2944	3124
42.5	3860	3197	2613	1799	1742	2004	2087	2254	3200	3054
45.0	4082	3327	2664	1761	1676	1933	2025	2199	3460	2885
47.5	4375	3525	2761	1744	1620	1860	1963	2123	3475	2788
50.0	4829	3880	2963	1761	1570	1790	1897	2089	3282	2717
52.5	5480	4369	3219	1800	1517	1709	1819	2003	2955	2633
55.0	6554	5116	3588	1840	1446	1610	1724	1883	2541	2530
57.5	8017	6000	3885	1827	1353	1478	1599	1753	2136	2392
60.0	9214	6354	3585	1664	1235	1318	1457	1602	1752	2280
62.5	9642	6030	2897	1414	1104	1155	1302	1429	1507	2162
65.0	8823	4901	1947	1112	978	1026	1147	1309	1344	1974
67.5	5922	3087	1234	882	854	909	1002	1209	1238	1704
70.0	2381	1388	738	695	723	773	871	1099	1113	1420
72.5	1053	661	480	544	609	664	758	983	972	1185
75.0	454	366	352	454	513	573	660	840	770	867
77.5	269	241	279	398	439	497	552	451	385	491
80.0	198	191	241	340	361	366	320	337	287	359
82.5	142	142	194	291	279	215	206	241	184	271
85.0	89	93	150	220	157	139	138	113	88	166
87.5	44	44	94	123	84	68	44	56	40	73
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

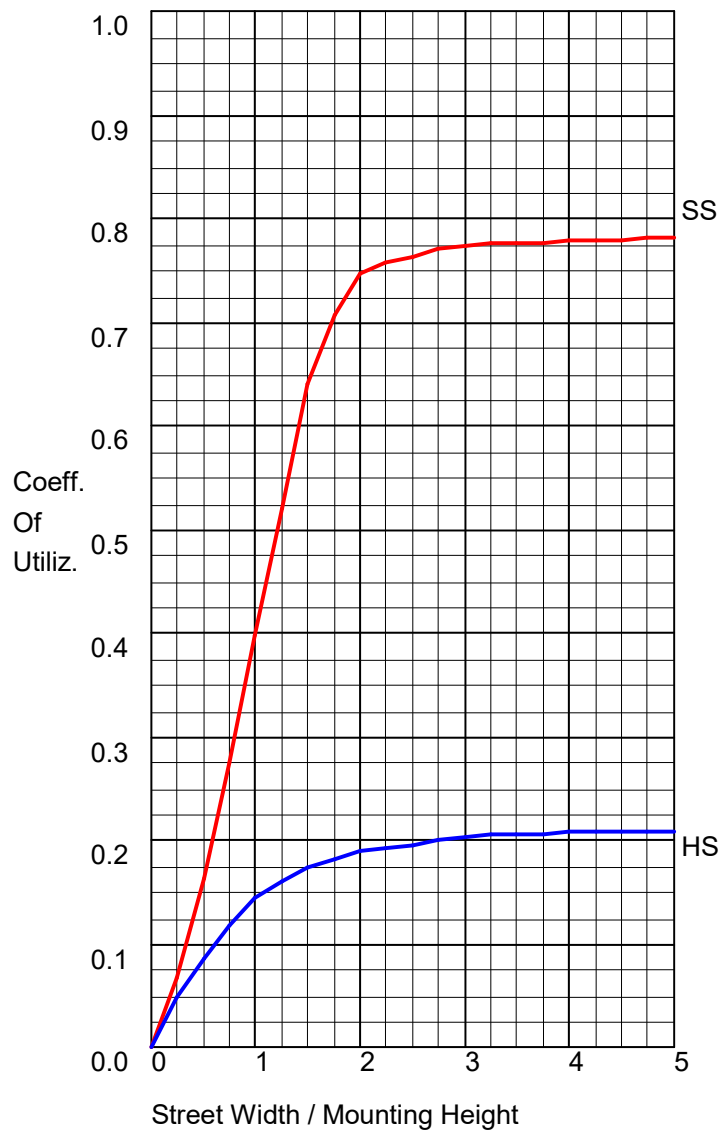
	<u>175.0</u>	<u>180.0</u>
0.0	1686	1686
2.5	1718	1715
5.0	1780	1778
7.5	1862	1866
10.0	1927	1931
12.5	1981	1989
15.0	2029	2023
17.5	2058	2060
20.0	2081	2084
22.5	2100	2104
25.0	2141	2137
27.5	2209	2206
30.0	2323	2330
32.5	2536	2537
35.0	2753	2733
37.5	2709	2663
40.0	2499	2436
42.5	2209	2114
45.0	2022	1929
47.5	1888	1800
50.0	1788	1699
52.5	1705	1596
55.0	1639	1493
57.5	1590	1406
60.0	1643	1389
62.5	1787	1504
65.0	1950	1674

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CANDELA TABULATION - (Cont.)

67.5	2038	1894
70.0	2010	2088
72.5	1716	1948
75.0	1247	1584
77.5	996	1184
80.0	718	797
82.5	501	501
85.0	349	341
87.5	382	513
90.0	0	0

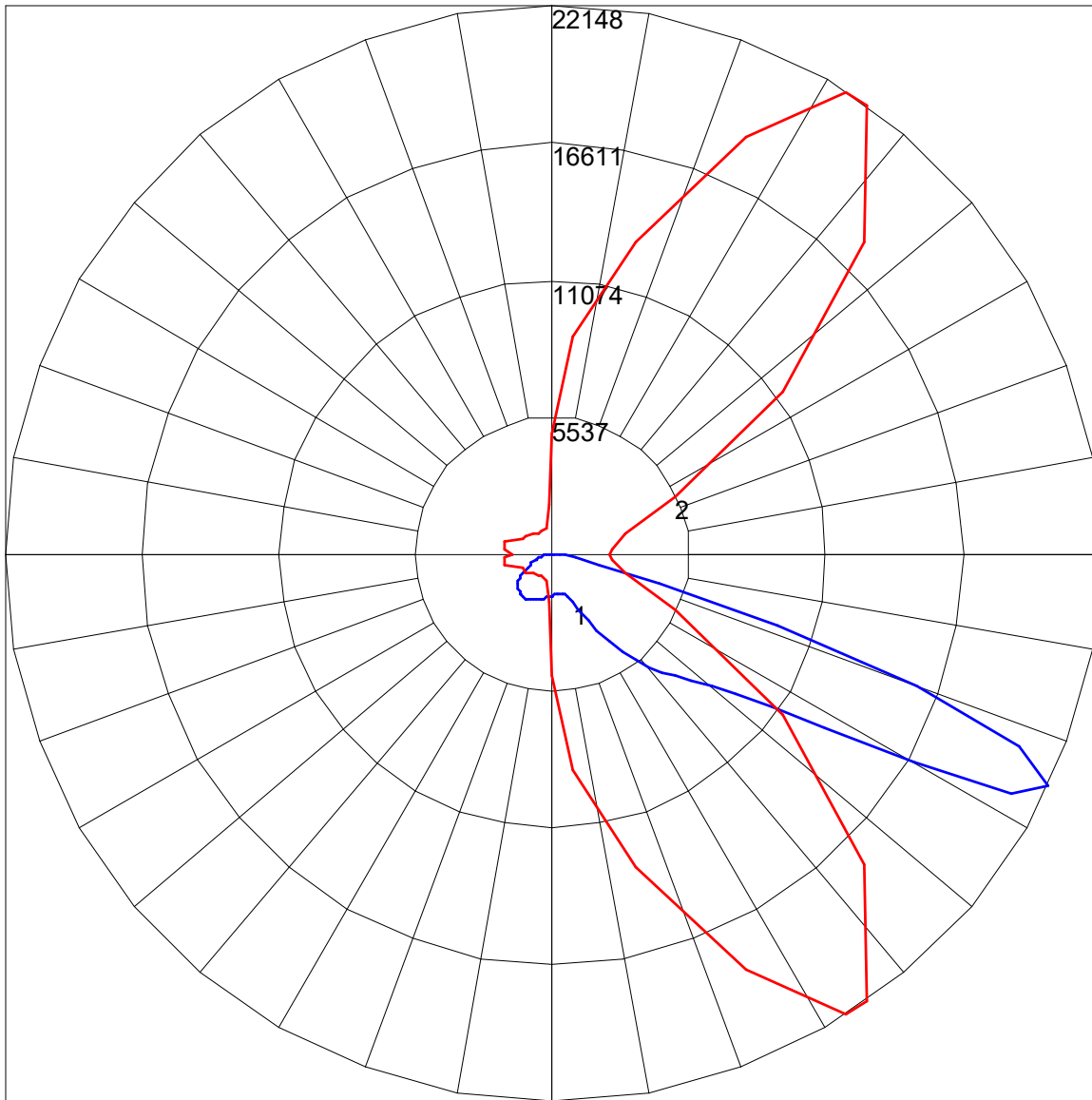
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

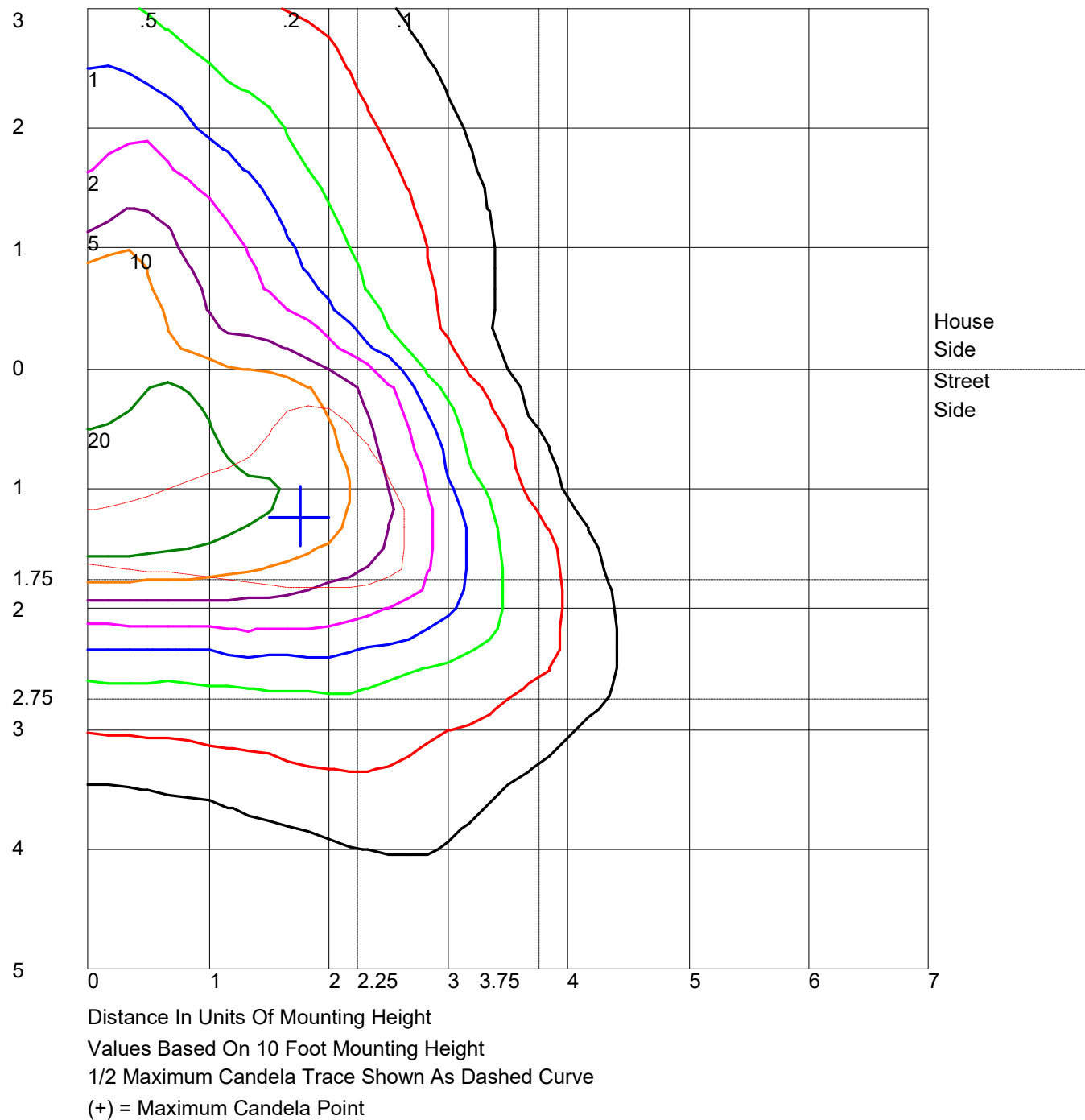
	Lumens	Percent Of Luminaire
Downward Street Side	16988.4	78.7
Downward House Side	4611.1	21.3
Downward Total	21599.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21599.4	100.0

POLAR GRAPH

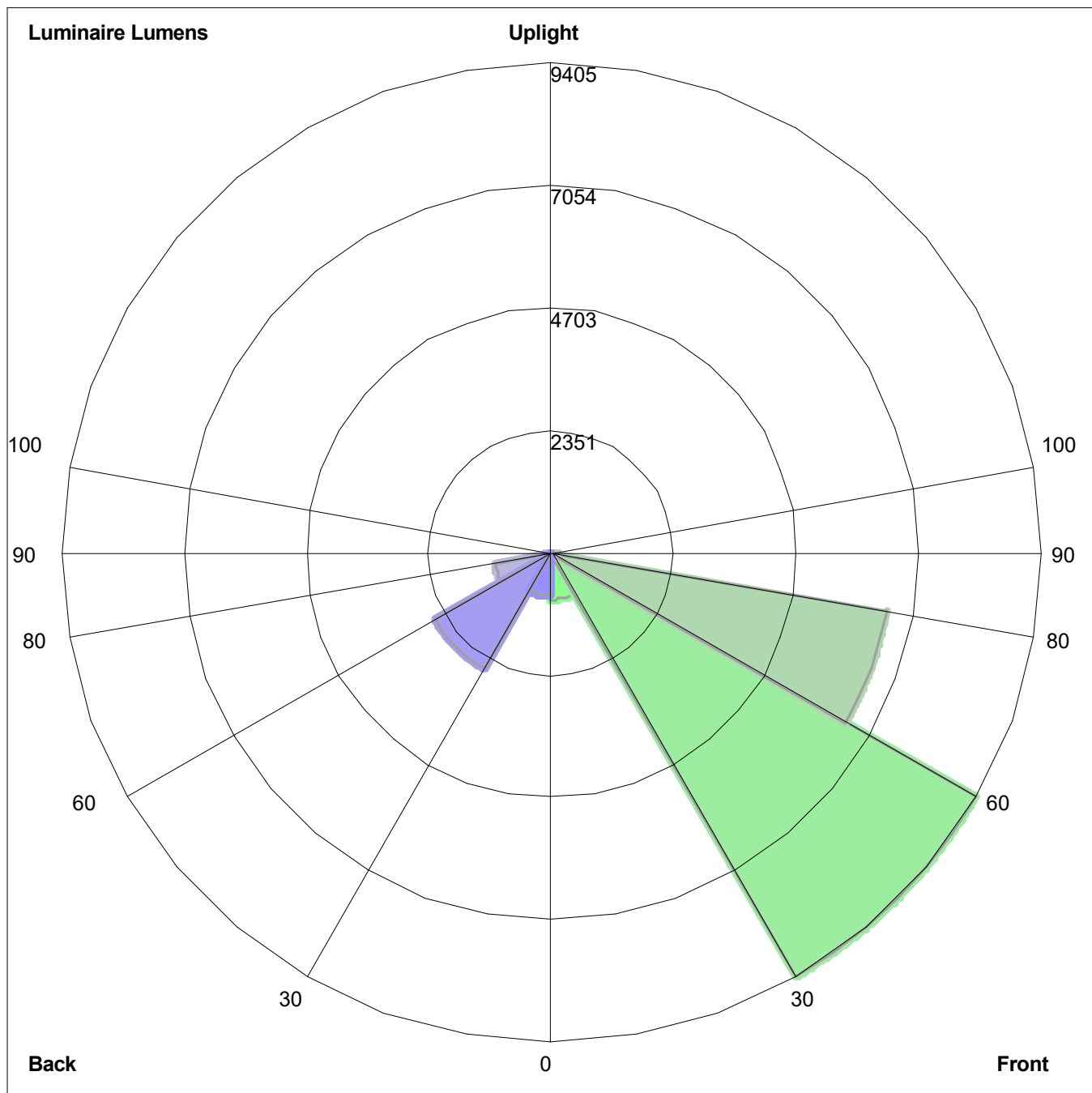


Maximum Candela = 22148 Located At Horizontal Angle = 55, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=903.5, Medium=9405.4, High=6528.5, Very High=151.0
Back: Low=835.8, Medium=2565.8, High=1110.8, Very High=98.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3