



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-50.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-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5905
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3529
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3529
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	1275 (21.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-50.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	350.6	N.A.	5.9
FM - Front-Medium (30-60)	1779.9	N.A.	30.1
FH - Front-High (60-80)	2019.3	N.A.	34.2
FVH - Front-Very High (80-90)	131.6	N.A.	2.2
BL - Back-Low (0-30)	368.8	N.A.	6.2
BM - Back-Medium (30-60)	859.6	N.A.	14.6
BH - Back-High (60-80)	364.3	N.A.	6.2
BVH - Back-Very High (80-90)	30.6	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	5904.7	N.A.	100.0
BUG Rating	B1-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-50.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<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>
0.0	811	811	811	811	811	811	811	811	811	811
2.5	795	797	800	801	805	805	807	807	810	812
5.0	764	768	772	776	785	786	793	798	805	811
7.5	726	729	735	742	756	761	770	785	801	812
10.0	696	698	706	717	733	741	752	772	797	817
12.5	679	680	689	702	720	732	744	769	798	827
15.0	677	679	687	701	721	734	748	773	804	837
17.5	695	697	705	716	737	750	761	785	815	845
20.0	732	734	741	752	768	777	786	805	828	857
22.5	786	789	797	805	813	819	823	833	848	868
25.0	854	856	865	870	876	873	871	867	870	880
27.5	933	940	944	948	947	939	931	910	898	892
30.0	1023	1030	1035	1036	1030	1016	1003	963	929	905
32.5	1128	1127	1133	1133	1121	1108	1088	1030	965	919
35.0	1221	1223	1232	1235	1221	1210	1179	1109	1012	936
37.5	1319	1320	1335	1339	1328	1315	1280	1196	1067	959
40.0	1419	1420	1437	1450	1442	1428	1396	1297	1138	992
42.5	1518	1527	1541	1564	1563	1551	1516	1409	1222	1041
45.0	1616	1624	1652	1681	1699	1680	1645	1533	1322	1102
47.5	1707	1716	1752	1805	1833	1818	1785	1669	1438	1181
50.0	1783	1790	1841	1925	1967	1956	1930	1820	1572	1283
52.5	1833	1845	1908	2019	2096	2091	2078	1984	1727	1411
55.0	1854	1865	1940	2086	2203	2219	2235	2168	1908	1572
57.5	1854	1866	1950	2122	2283	2333	2387	2373	2124	1756
60.0	1855	1864	1953	2139	2344	2444	2536	2625	2370	1946
62.5	1878	1886	1975	2159	2407	2544	2687	2878	2614	2112
65.0	1961	1970	2054	2238	2501	2684	2883	3092	2795	2173
67.5	2047	2063	2197	2429	2735	2932	3107	3238	2814	2019
70.0	2037	2056	2224	2659	3132	3268	3349	3222	2488	1551
72.5	1885	1895	2117	2705	3415	3529	3469	2848	1801	954
75.0	1416	1416	1708	2355	3121	3332	3102	2055	1107	560
77.5	713	772	1045	1606	2234	2414	2151	1277	676	370
80.0	331	384	600	901	1230	1275	1238	773	419	223
82.5	175	191	369	537	567	687	677	413	236	119
85.0	129	136	235	316	355	346	325	176	118	65
87.5	88	96	143	164	206	153	70	61	38	28
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<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>
0.0	811	811	811	811	811	811	811	811	811	811
2.5	815	817	817	815	820	819	819	819	818	818
5.0	818	821	822	824	828	827	825	823	822	821
7.5	822	828	831	833	834	831	831	833	835	837
10.0	832	838	840	839	838	839	844	849	854	857
12.5	846	853	855	848	846	852	860	866	870	873
15.0	861	867	867	856	854	864	874	879	883	883
17.5	876	884	882	862	864	876	885	888	889	888
20.0	888	897	894	865	873	883	892	892	891	891
22.5	899	908	904	867	879	890	895	895	894	894
25.0	904	915	909	864	880	894	896	894	894	895
27.5	906	916	908	857	877	891	891	890	892	894

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-50.IES

CANDELA TABULATION - (Cont.)

30.0	905	912	904	846	868	885	885	885	889	894
32.5	902	904	895	829	857	876	876	877	884	892
35.0	896	894	881	812	839	860	862	866	879	892
37.5	892	882	866	790	819	841	845	852	871	889
40.0	896	873	853	764	797	820	825	836	865	886
42.5	907	869	839	739	768	796	798	815	857	867
45.0	929	873	829	712	737	768	769	791	855	805
47.5	964	886	826	686	701	734	735	761	817	744
50.0	1015	913	832	663	665	698	698	737	764	689
52.5	1094	957	846	642	624	658	659	707	707	636
55.0	1190	1014	873	625	584	618	619	664	650	588
57.5	1308	1088	908	615	543	577	581	612	590	531
60.0	1424	1158	929	609	503	537	540	558	520	479
62.5	1494	1170	881	595	465	496	499	499	464	440
65.0	1463	1076	733	561	424	454	451	454	420	409
67.5	1246	858	526	490	379	412	412	419	382	384
70.0	842	565	365	387	331	366	380	381	345	360
72.5	441	303	259	295	278	317	336	342	306	316
75.0	285	187	166	215	217	256	285	287	219	207
77.5	181	119	109	149	163	198	222	172	146	157
80.0	98	71	75	108	124	146	129	128	114	125
82.5	62	48	51	78	93	82	90	97	79	91
85.0	37	25	28	49	45	50	57	56	39	58
87.5	13	5	9	17	18	20	19	20	16	25
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

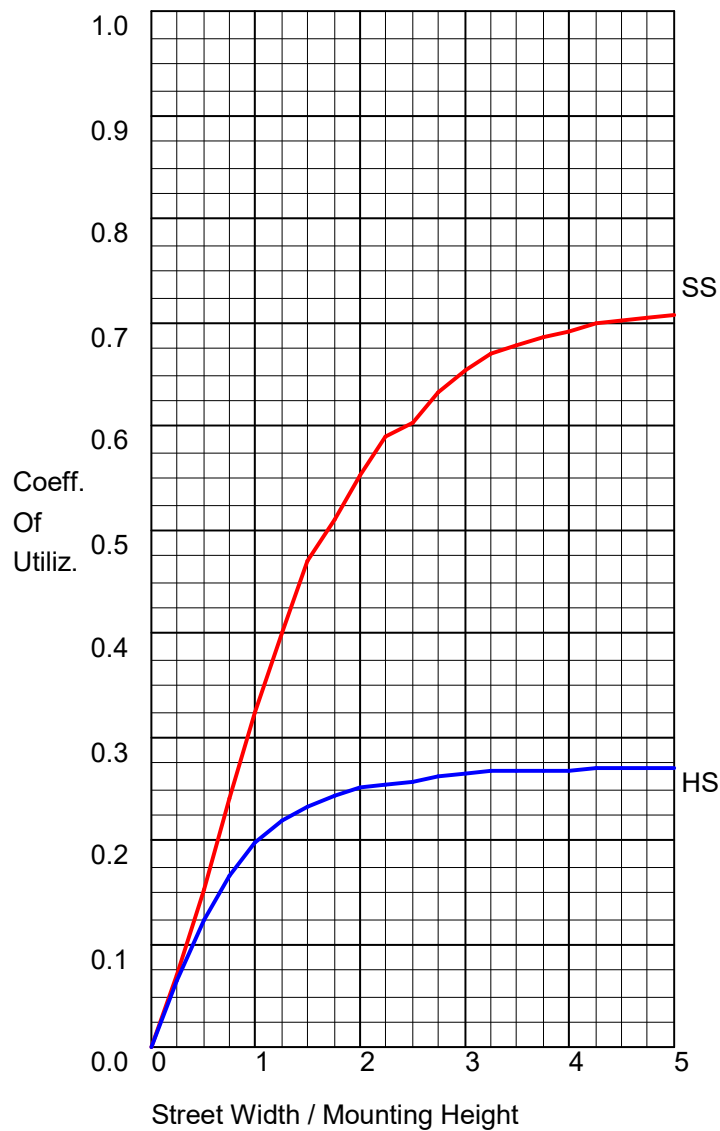
	175	180
0.0	811	811
2.5	817	815
5.0	820	819
7.5	836	835
10.0	856	855
12.5	871	870
15.0	882	881
17.5	887	885
20.0	889	888
22.5	891	890
25.0	894	891
27.5	895	892
30.0	895	892
32.5	895	891
35.0	891	889
37.5	885	880
40.0	875	867
42.5	806	797
45.0	744	736
47.5	693	686
50.0	647	639
52.5	598	591
55.0	552	544
57.5	493	481
60.0	449	436
62.5	415	404
65.0	395	385

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-05L-50.IES

CANDELA TABULATION - (Cont.)

67.5	380	370
70.0	364	353
72.5	328	317
75.0	230	228
77.5	203	204
80.0	170	177
82.5	133	142
85.0	92	102
87.5	49	59
90.0	0	0

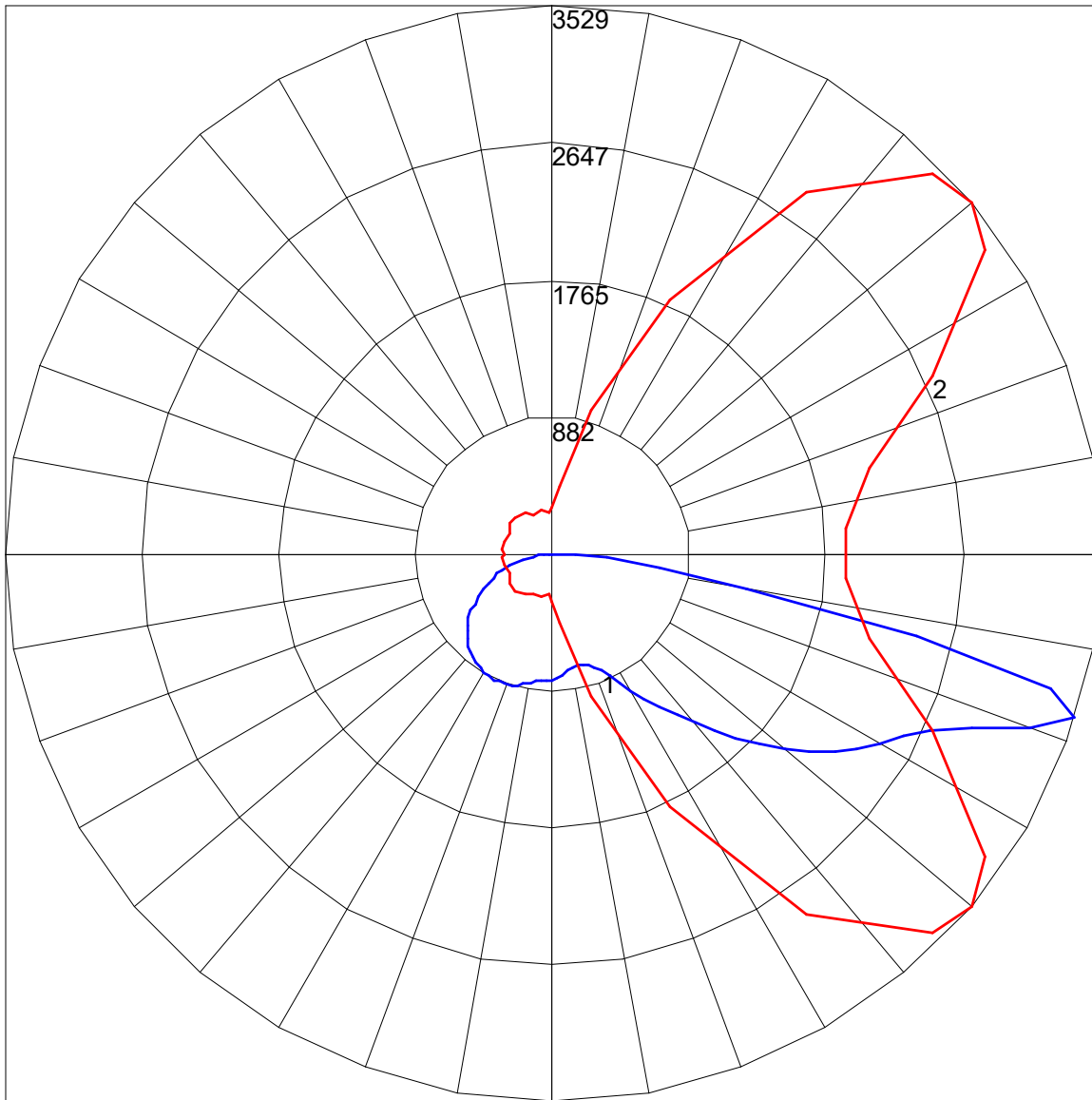
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

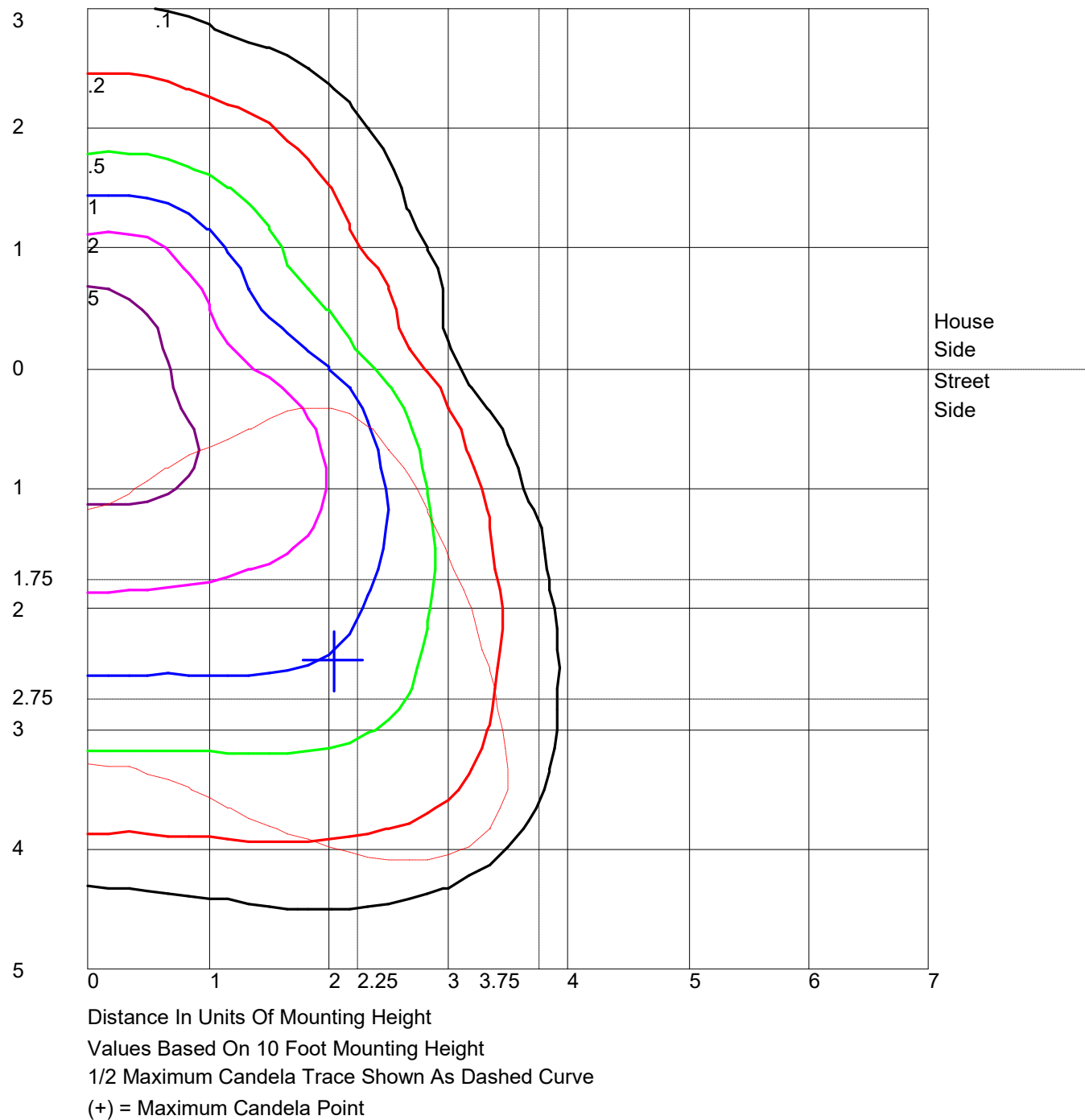
	Lumens	Percent Of Luminaire
Downward Street Side	4281.4	72.5
Downward House Side	1623.3	27.5
Downward Total	5904.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5904.7	100.0

POLAR GRAPH

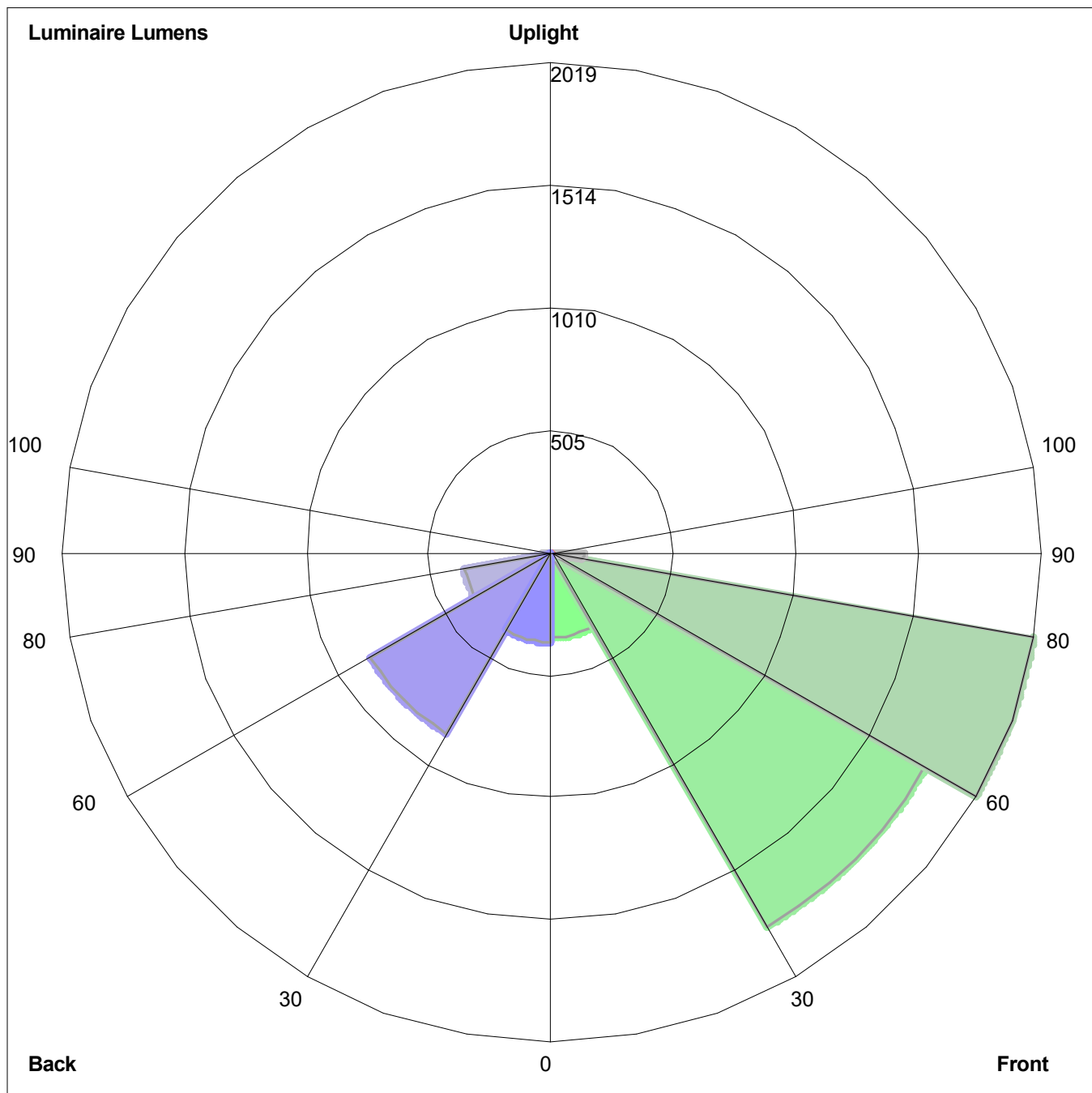


Maximum Candela = 3529 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=350.6, Medium=1779.9, High=2019.3, Very High=131.6
Back: Low=368.8, Medium=859.6, High=364.3, Very High=30.6
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2