



IES ROAD REPORT

PHOTOMETRIC FILENAME : TXWP-10L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3757

[TESTLAB] TUV SUD America

[ISSUE DATE] 8/10/2020

[TEST DATE] 8/22/2019 11:33:52 AM

[MANUFAC] LSI INDUSTRIES, INC.

[OTHER] TEST PROCEDURE: IESNA

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

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] TXWP-10L-50

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10399
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	82
Ballast Factor	1.00
Upward Waste Light Ratio	0.21
Maximum Candela	3596
Maximum Candela Angle	360H 60V
Maximum Candela (<90 Degrees Vertical)	3596
Maximum Candela Angle (<90 Degrees Vertical)	360H 60V
Maximum Candela At 90 Degrees Vertical	2701 (26.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3105 (29.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	905.0	N.A.	8.7
FM - Front-Medium (30-60)	2806.1	N.A.	27.0
FH - Front-High (60-80)	2245.7	N.A.	21.6
FVH - Front-Very High (80-90)	959.6	N.A.	9.2
BL - Back-Low (0-30)	477.5	N.A.	4.6
BM - Back-Medium (30-60)	622.3	N.A.	6.0
BH - Back-High (60-80)	165.2	N.A.	1.6
BVH - Back-Very High (80-90)	24.0	N.A.	0.2
UL - Uplight-Low (90-100)	791.7	N.A.	7.6
UH - Uplight-High (100-180)	1401.5	N.A.	13.5
Total	10398.6	N.A.	100.0
BUG Rating	B1-U5-G5		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723
2.5	1841	1801	1780	1751	1717	1679	1646	1625	1651	1625
5.0	1934	1886	1841	1779	1709	1635	1568	1525	1539	1525
7.5	2027	1967	1902	1804	1697	1586	1485	1420	1429	1420
10.0	2130	2054	1956	1827	1682	1532	1399	1310	1311	1310
12.5	2243	2146	2011	1845	1662	1475	1309	1199	1191	1199
15.0	2367	2251	2070	1857	1638	1414	1216	1086	1070	1086
17.5	2491	2358	2132	1866	1610	1350	1123	976	951	976
20.0	2616	2467	2199	1871	1577	1284	1030	899	884	899
22.5	2734	2575	2265	1874	1541	1217	937	840	822	840
25.0	2850	2676	2329	1875	1503	1148	872	782	762	782
27.5	2958	2771	2387	1875	1460	1077	819	726	704	726
30.0	3049	2856	2441	1873	1415	1007	768	672	646	672
32.5	3130	2930	2488	1869	1367	937	718	618	591	618
35.0	3202	2993	2530	1864	1318	867	671	568	538	568
37.5	3271	3048	2563	1858	1268	797	623	517	489	517
40.0	3332	3100	2588	1849	1213	746	576	466	434	466
42.5	3384	3142	2603	1837	1158	702	532	411	381	411
45.0	3427	3174	2610	1821	1101	658	488	364	338	364
47.5	3471	3199	2613	1801	1045	616	441	321	293	321
50.0	3514	3225	2609	1776	988	572	390	276	257	276
52.5	3551	3251	2599	1746	930	528	343	239	223	239
55.0	3576	3267	2583	1710	872	485	300	205	188	205
57.5	3592	3272	2564	1670	814	442	255	174	158	174
60.0	3596	3267	2541	1624	753	399	217	142	124	142
62.5	3582	3250	2509	1576	693	355	182	112	99	112
65.0	3548	3219	2468	1527	630	310	154	84	79	84
67.5	3501	3172	2416	1473	567	265	129	61	54	61
70.0	3443	3114	2358	1416	502	222	104	37	27	37
72.5	3374	3045	2289	1354	436	183	79	6	1	6
75.0	3291	2967	2216	1286	372	150	50	0	0	0
77.5	3198	2883	2137	1216	308	122	29	0	1	0
80.0	3105	2794	2058	1143	249	98	25	0	0	0
82.5	3012	2705	1978	1072	195	81	22	1	1	1
85.0	2917	2612	1893	1001	152	72	20	1	1	1
87.5	2816	2516	1808	928	121	65	18	1	1	1
90.0	2701	2409	1717	857	107	60	16	1	1	1
92.5	2572	2298	1627	790	99	55	14	1	1	1
95.0	2432	2176	1533	727	93	51	12	1	1	1
97.5	2285	2044	1435	667	88	47	11	1	1	1
100.0	2139	1915	1341	611	83	43	10	1	1	1
102.5	2012	1797	1252	558	78	39	8	1	1	1
105.0	1883	1681	1165	507	73	36	7	1	1	1
107.5	1748	1565	1080	459	68	34	6	1	1	1
110.0	1614	1452	999	415	63	31	5	1	1	1
112.5	1477	1338	921	373	58	28	4	0	1	0
115.0	1349	1221	846	332	52	26	4	1	1	1
117.5	1223	1110	769	292	48	23	3	1	2	1
120.0	1119	1014	690	249	44	21	3	1	2	1
122.5	1012	914	621	207	39	19	3	2	3	2
125.0	909	826	560	168	35	17	2	2	3	2
127.5	830	752	498	134	32	15	2	2	3	2
130.0	747	675	438	100	28	14	2	3	3	3

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CANDELA TABULATION - (Cont.)

132.5	671	603	382	70	25	12	2	3	4	3
135.0	597	533	330	44	22	11	3	4	4	4
137.5	524	466	282	28	18	9	3	4	4	4
140.0	454	409	233	22	16	8	3	4	5	4
142.5	396	351	189	18	13	6	4	4	5	4
145.0	337	297	147	15	9	5	4	5	5	5
147.5	286	249	103	12	6	5	4	5	5	5
150.0	239	202	57	10	4	4	4	5	5	5
152.5	185	151	18	8	3	4	4	5	5	5
155.0	125	91	5	6	3	4	4	5	5	5
157.5	55	30	4	4	3	4	4	5	5	5
160.0	6	3	3	4	3	4	5	5	5	5
162.5	2	2	3	3	3	4	5	5	5	5
165.0	3	3	3	3	4	4	5	5	5	5
167.5	3	3	3	4	4	4	5	5	5	5
170.0	3	3	4	4	4	5	5	5	5	5
172.5	3	4	4	4	4	5	5	5	5	5
175.0	4	4	4	4	5	5	5	5	5	5
177.5	4	4	4	5	5	5	5	5	5	5
180.0	4	4	4	4	4	4	4	4	4	4

Vert. Angles **Horizontal Angles**

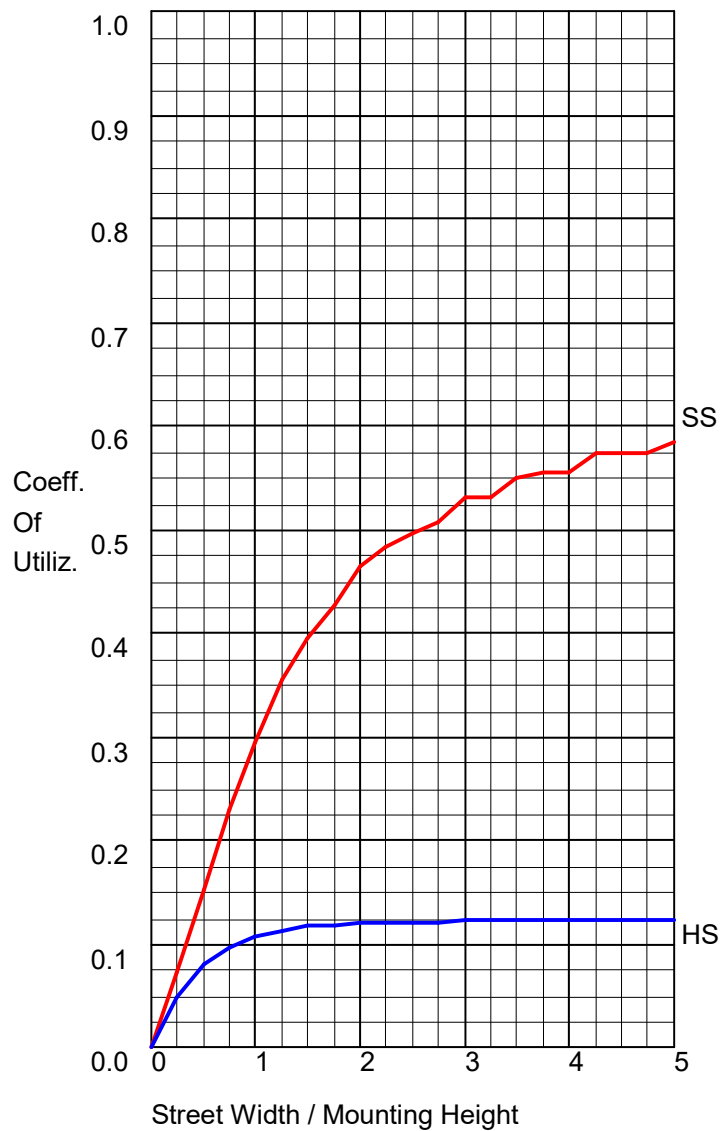
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1723	1723	1723	1723	1723	1723	1723
2.5	1646	1679	1717	1751	1780	1801	1841
5.0	1568	1635	1709	1779	1841	1886	1934
7.5	1485	1586	1697	1804	1902	1967	2027
10.0	1399	1532	1682	1827	1956	2054	2130
12.5	1309	1475	1662	1845	2011	2146	2243
15.0	1216	1414	1638	1857	2070	2251	2367
17.5	1123	1350	1610	1866	2132	2358	2491
20.0	1030	1284	1577	1871	2199	2467	2616
22.5	937	1217	1541	1874	2265	2575	2734
25.0	872	1148	1503	1875	2329	2676	2850
27.5	819	1077	1460	1875	2387	2771	2958
30.0	768	1007	1415	1873	2441	2856	3049
32.5	718	937	1367	1869	2488	2930	3130
35.0	671	867	1318	1864	2530	2993	3202
37.5	623	797	1268	1858	2563	3048	3271
40.0	576	746	1213	1849	2588	3100	3332
42.5	532	702	1158	1837	2603	3142	3384
45.0	488	658	1101	1821	2610	3174	3427
47.5	441	616	1045	1801	2613	3199	3471
50.0	390	572	988	1776	2609	3225	3514
52.5	343	528	930	1746	2599	3251	3551
55.0	300	485	872	1710	2583	3267	3576
57.5	255	442	814	1670	2564	3272	3592
60.0	217	399	753	1624	2541	3267	3596
62.5	182	355	693	1576	2509	3250	3582
65.0	154	310	630	1527	2468	3219	3548
67.5	129	265	567	1473	2416	3172	3501
70.0	104	222	502	1416	2358	3114	3443
72.5	79	183	436	1354	2289	3045	3374
75.0	50	150	372	1286	2216	2967	3291
77.5	29	122	308	1216	2137	2883	3198

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CANDELA TABULATION - (Cont.)

80.0	25	98	249	1143	2058	2794	3105
82.5	22	81	195	1072	1978	2705	3012
85.0	20	72	152	1001	1893	2612	2917
87.5	18	65	121	928	1808	2516	2816
90.0	16	60	107	857	1717	2409	2701
92.5	14	55	99	790	1627	2298	2572
95.0	12	51	93	727	1533	2176	2432
97.5	11	47	88	667	1435	2044	2285
100.0	10	43	83	611	1341	1915	2139
102.5	8	39	78	558	1252	1797	2012
105.0	7	36	73	507	1165	1681	1883
107.5	6	34	68	459	1080	1565	1748
110.0	5	31	63	415	999	1452	1614
112.5	4	28	58	373	921	1338	1477
115.0	4	26	52	332	846	1221	1349
117.5	3	23	48	292	769	1110	1223
120.0	3	21	44	249	690	1014	1119
122.5	3	19	39	207	621	914	1012
125.0	2	17	35	168	560	826	909
127.5	2	15	32	134	498	752	830
130.0	2	14	28	100	438	675	747
132.5	2	12	25	70	382	603	671
135.0	3	11	22	44	330	533	597
137.5	3	9	18	28	282	466	524
140.0	3	8	16	22	233	409	454
142.5	4	6	13	18	189	351	396
145.0	4	5	9	15	147	297	337
147.5	4	5	6	12	103	249	286
150.0	4	4	4	10	57	202	239
152.5	4	4	3	8	18	151	185
155.0	4	4	3	6	5	91	125
157.5	4	4	3	4	4	30	55
160.0	5	4	3	4	3	3	6
162.5	5	4	3	3	3	2	2
165.0	5	4	4	3	3	3	3
167.5	5	4	4	4	3	3	3
170.0	5	5	4	4	4	3	3
172.5	5	5	4	4	4	4	3
175.0	5	5	5	4	4	4	4
177.5	5	5	5	5	4	4	4
180.0	4	4	4	4	4	4	4

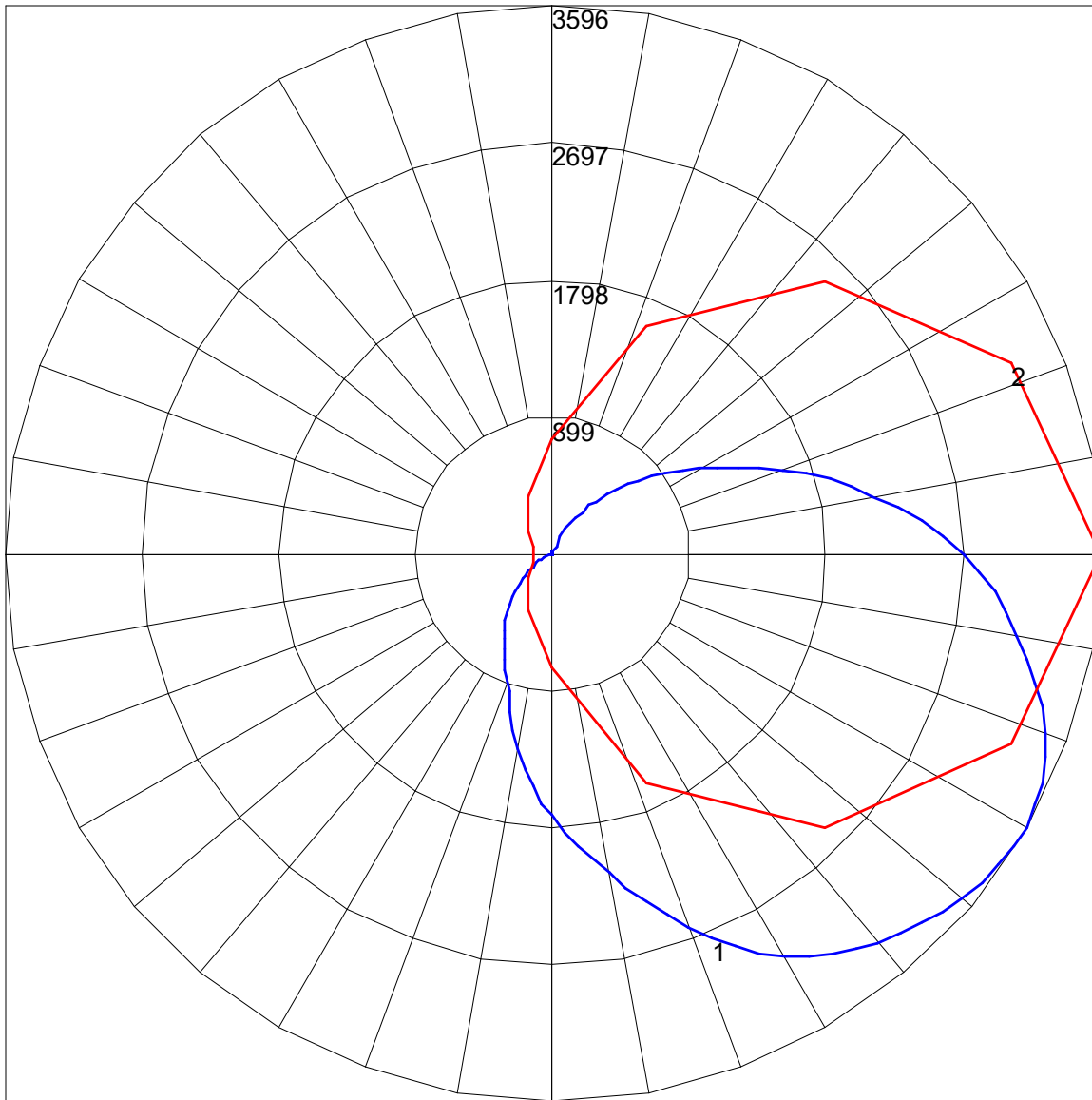
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

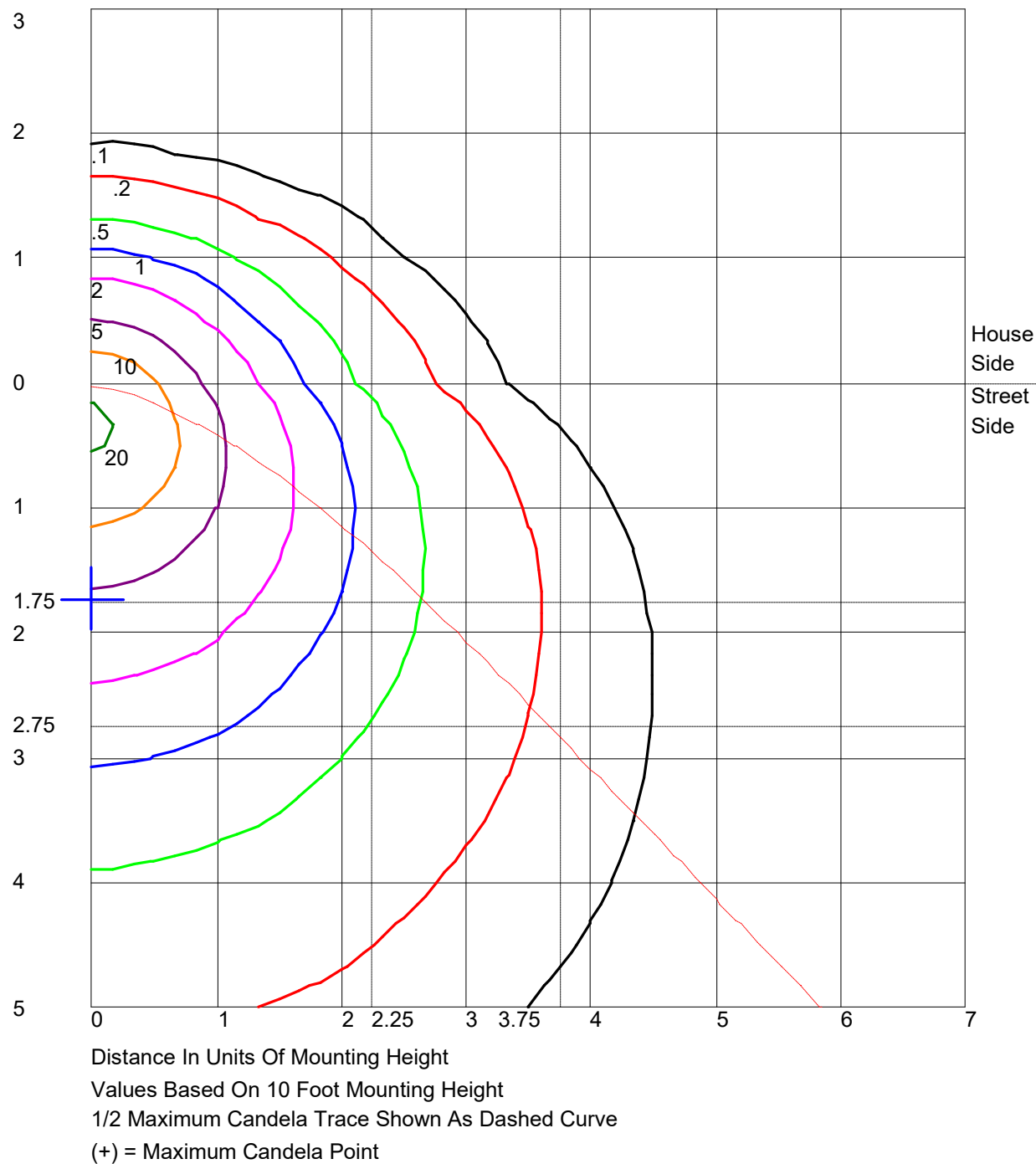
	Lumens	Percent Of Luminaire
Downward Street Side	6916.3	66.5
Downward House Side	1289.0	12.4
Downward Total	8205.3	78.9
Upward Street Side	2148.9	20.7
Upward House Side	44.3	0.4
Upward Total	2193.2	21.1
Total Flux	10398.5	100.0

POLAR GRAPH

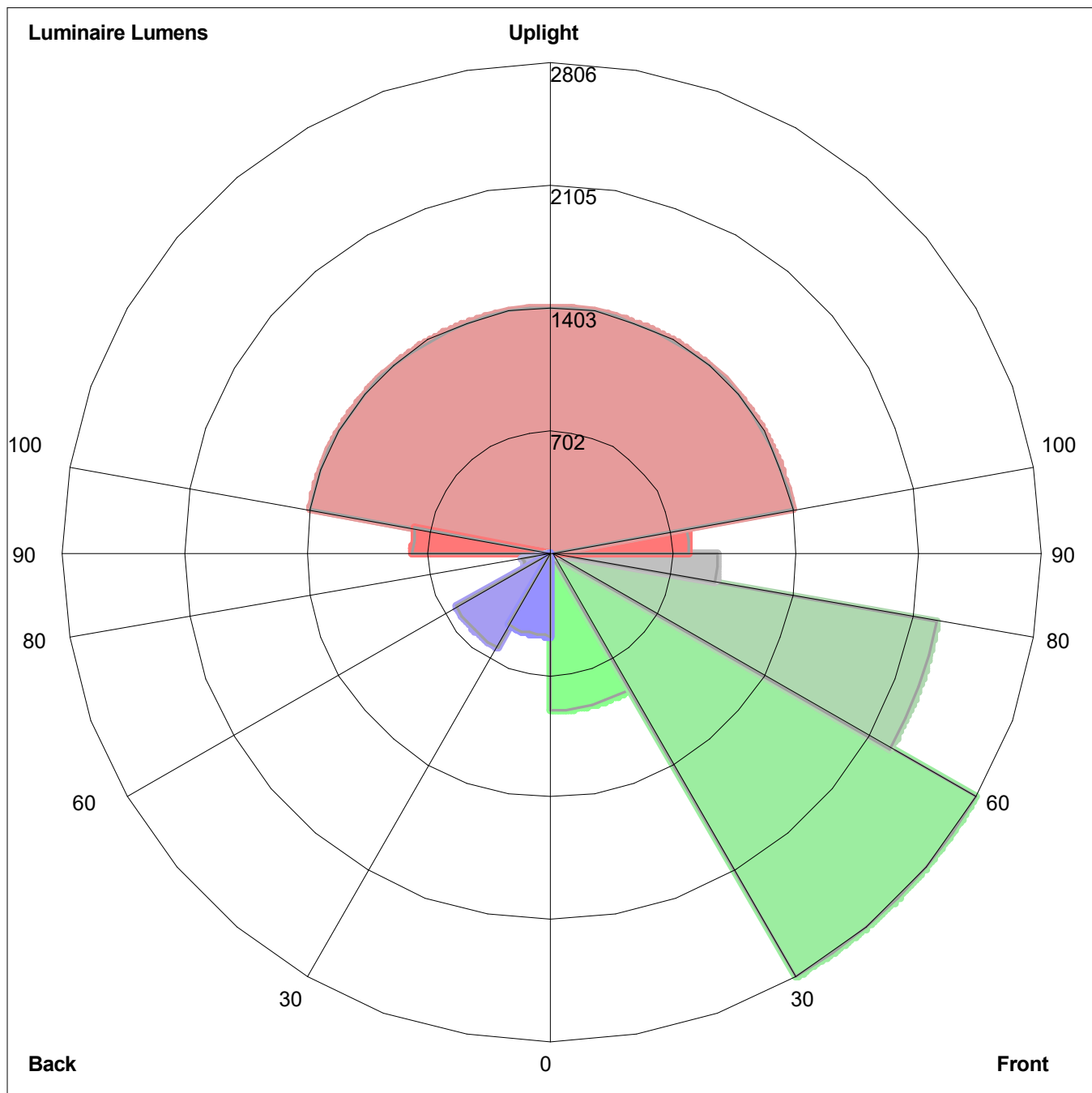


Maximum Candela = 3596 Located At Horizontal Angle = 360, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=905.0, Medium=2806.1, High=2245.7, Very High=959.6
Back: Low=477.5, Medium=622.3, High=165.2, Very High=24.0
Uplight: Low=791.7, High=1401.5

BUG Rating : B1-U5-G5