

IES ROAD REPORT

PHOTOMETRIC FILENAME : S28987 3000K 120V.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BL211123019-9
 [TESTLAB] Shenzhen Belling Efficiency Testing Lab Co.,Ltd
 [TESTDATE] 2021-08-17
 [ISSUEDATE] 2021-12-10
 [MANUFAC] Satco Products, Inc.
 [LUMCAT] S28987 3000K
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP]
 [LumELE] 120.03 0.479 56.89 0.9888

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8898
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	56.89
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	2882.91
Maximum Candela Angle	270H 5V
Maximum Candela (<90 Degrees Vertical)	2882.91
Maximum Candela Angle (<90 Degrees Vertical)	270H 5V
Maximum Candela At 90 Degrees Vertical	649.869 (7.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	908.684 (10.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1072.3	N.A.	12.1
FM - Front-Medium (30-60)	1969.9	N.A.	22.1
FH - Front-High (60-80)	881.6	N.A.	9.9
FVH - Front-Very High (80-90)	235.2	N.A.	2.6
BL - Back-Low (0-30)	1078.6	N.A.	12.1
BM - Back-Medium (30-60)	2025.8	N.A.	22.8
BH - Back-High (60-80)	937.3	N.A.	10.5
BVH - Back-Very High (80-90)	256.9	N.A.	2.9
UL - Uplight-Low (90-100)	266.2	N.A.	3.0
UH - Uplight-High (100-180)	173.9	N.A.	2.0

Total 8897.7 N.A. 100.0

BUG Rating B3-U3-G3

IES ROAD REPORT
PHOTOMETRIC FILENAME : S28987 3000K 120V.IES

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	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979
5	2785.527	2758.949	2754.374	2744.570	2860.688	2831.713	2803.392	2794.677	2770.059	2743.045
10	2716.249	2703.831	2696.859	2701.870	2814.285	2776.377	2757.642	2743.699	2716.684	2695.334
15	2680.956	2613.856	2597.734	2599.477	2705.138	2689.234	2671.152	2669.845	2646.970	2636.731
20	2559.391	2526.930	2477.477	2463.752	2594.248	2557.430	2560.045	2582.484	2563.530	2559.827
25	2439.352	2397.959	2359.834	2325.194	2445.234	2420.834	2425.627	2474.645	2465.059	2459.394
30	2281.187	2234.783	2219.969	2190.123	2302.537	2264.194	2268.987	2351.337	2373.559	2360.923
35	2114.744	2086.640	2041.761	2042.633	2161.365	2103.633	2118.883	2202.758	2252.212	2236.744
40	1994.051	1903.640	1885.775	1890.133	1984.901	1947.865	1954.618	2015.836	2034.572	2060.279
45	1828.261	1757.239	1711.054	1711.925	1800.811	1774.668	1794.057	1834.361	1900.590	1879.893
50	1661.818	1627.614	1539.382	1512.367	1595.807	1584.914	1578.378	1672.711	1788.611	1739.593
55	1606.264	1492.325	1391.674	1294.510	1371.849	1392.328	1422.392	1513.892	1623.911	1588.836
60	1459.428	1353.767	1239.392	1079.267	1118.699	1184.928	1255.949	1387.753	1503.653	1454.635
65	1250.067	1195.603	1094.517	855.091	851.170	971.209	1115.431	1245.928	1391.674	1319.128
70	1106.063	1023.495	926.766	652.701	556.190	756.837	963.584	1100.834	1220.438	1161.399
75	962.277	859.448	748.777	466.433	327.658	577.758	815.877	969.248	1078.831	1016.741
80	817.402	746.162	595.405	303.476	160.561	397.808	668.387	804.330	908.684	856.398
85	707.601	631.787	484.515	199.558	60.564	259.251	522.423	673.834	786.902	710.652
90	609.348	540.287	381.033	127.229	2.614	165.136	426.129	554.230	649.869	589.741
95	507.826	333.104	299.336	71.675	1.961	101.740	337.244	456.412	549.873	487.565
100	326.351	145.311	105.007	27.886	1.743	59.039	177.772	124.397	4.139	66.229
105	249.665	154.897	71.457	13.071	1.525	17.429	101.740	181.258	314.804	215.243
110	196.290	135.072	29.629	10.675	1.743	12.200	48.147	172.325	239.643	144.440
115	108.493	77.775	23.529	8.496	3.486	8.714	29.846	99.125	149.668	74.289
120	56.643	48.582	25.054	8.279	3.921	6.971	22.004	56.643	79.518	37.254
125	40.739	32.896	18.736	8.714	4.139	6.536	12.636	28.104	41.393	22.439
130	16.339	15.032	13.725	7.407	4.575	6.536	9.586	11.982	14.379	10.021
135	11.764	10.893	9.586	6.754	4.575	6.100	7.625	6.971	5.882	4.793
140	9.368	8.279	6.754	5.664	4.793	5.446	5.446	5.882	5.446	4.793
145	8.061	6.754	5.664	4.139	4.357	4.139	5.011	5.229	4.793	4.793
150	6.971	6.318	5.229	3.704	3.921	3.704	4.793	5.011	4.575	4.357
155	6.100	6.100	4.575	4.139	3.921	3.921	4.139	4.575	4.139	4.575
160	5.664	5.882	4.357	3.704	3.921	3.921	3.921	4.575	4.139	3.921
165	5.229	5.229	4.793	3.921	4.139	3.704	4.139	4.575	3.921	3.704
170	4.793	5.229	5.011	4.793	4.575	4.357	4.575	4.357	3.268	3.486
175	4.793	5.011	4.793	5.011	5.229	5.011	4.575	4.357	3.704	3.486
180	4.921	4.921	4.921	4.921	4.921	4.921	4.921	4.921	4.921	4.921

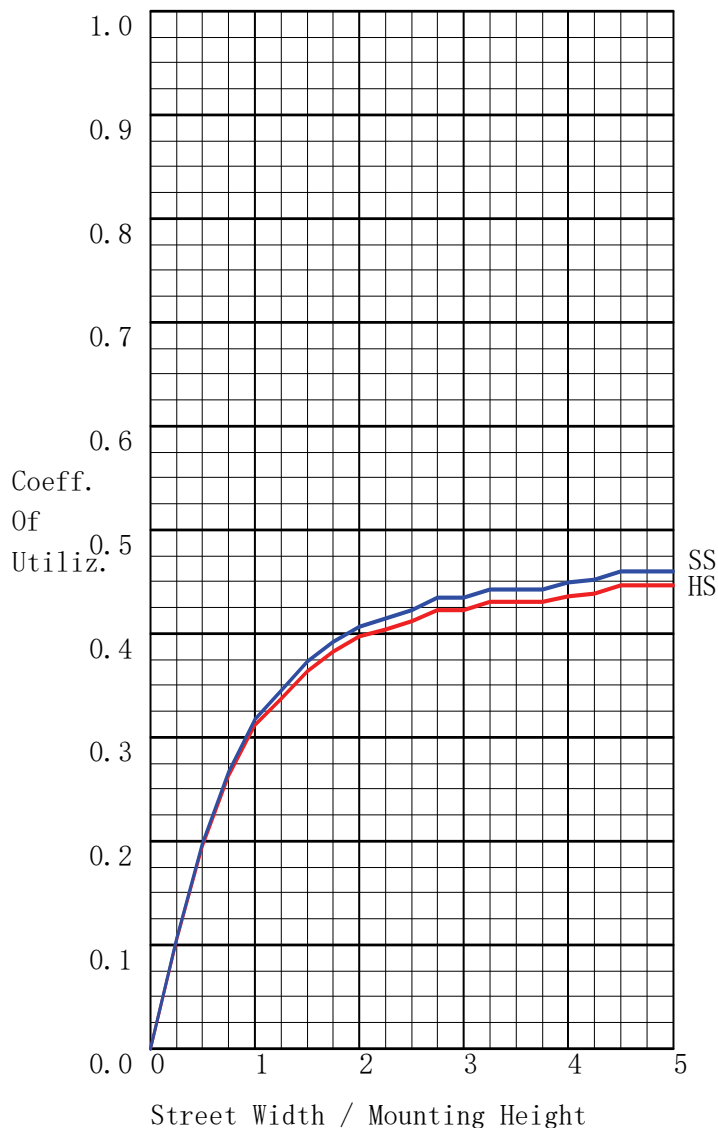
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979	2807.979
5	2747.838	2774.199	2882.910	2857.638	2830.624	2805.788	2785.527
10	2716.684	2747.620	2851.538	2836.942	2781.606	2747.620	2716.249
15	2656.120	2690.977	2782.913	2771.367	2707.316	2673.984	2680.956
20	2580.088	2602.745	2688.145	2664.834	2618.866	2602.309	2559.391
25	2485.973	2490.766	2565.491	2537.823	2509.937	2481.398	2439.352
30	2369.637	2358.091	2391.859	2362.012	2362.884	2318.223	2281.187
35	2225.198	2178.576	2130.212	2162.019	2164.633	2168.772	2114.744
40	2053.526	1970.086	1863.772	1928.258	1989.694	1984.901	1994.051
45	1895.361	1707.132	1616.503	1677.939	1798.197	1843.293	1828.261
50	1666.175	1457.032	1390.367	1435.246	1604.086	1710.400	1661.818
55	1457.903	1236.778	1165.538	1224.360	1419.342	1573.585	1606.264
60	1256.821	1036.349	943.759	1023.277	1234.599	1435.246	1459.428
65	1070.770	854.873	709.344	838.752	1069.027	1253.771	1250.067
70	894.305	668.605	477.326	660.762	896.484	1083.188	1106.063
75	745.509	501.508	262.954	495.626	738.319	905.198	962.277
80	614.576	371.447	118.950	340.947	583.423	748.559	817.402

IES ROAD REPORT
PHOTOMETRIC FILENAME : S28987 3000K 120V.IES

CANDELA TABULATION - (Cont.)

85	466.215	236.811	47.057	214.154	468.176	645.294	707.601
90	365.347	143.350	2.832	138.340	364.911	552.705	609.348
95	281.690	87.143	2.179	84.747	275.808	378.854	507.826
100	67.318	33.986	1.743	15.686	69.714	242.693	326.351
105	74.725	8.714	2.396	10.457	69.279	157.293	249.665
110	51.197	5.882	3.050	9.586	40.304	120.257	196.290
115	30.282	4.575	2.614	5.229	25.054	49.018	108.493
120	16.557	2.832	2.832	4.139	17.646	30.718	56.643
125	5.011	2.832	2.832	4.139	5.882	26.361	40.739
130	2.832	2.614	3.268	4.139	5.229	8.061	16.339
135	3.050	2.832	3.921	4.139	5.446	7.407	11.764
140	3.921	3.268	4.575	4.793	5.446	6.971	9.368
145	3.704	3.704	4.793	5.011	5.446	6.754	8.061
150	4.139	3.704	5.011	5.011	5.446	6.318	6.971
155	4.139	4.139	5.229	4.793	5.229	5.882	6.100
160	3.921	3.921	4.575	4.793	5.011	5.446	5.664
165	3.704	3.921	5.229	5.011	4.793	5.011	5.229
170	3.486	4.139	5.229	4.575	4.357	4.793	4.793
175	3.486	3.486	5.229	4.575	4.793	4.793	4.793
180	4.921	4.921	4.921	4.921	4.921	4.921	4.921

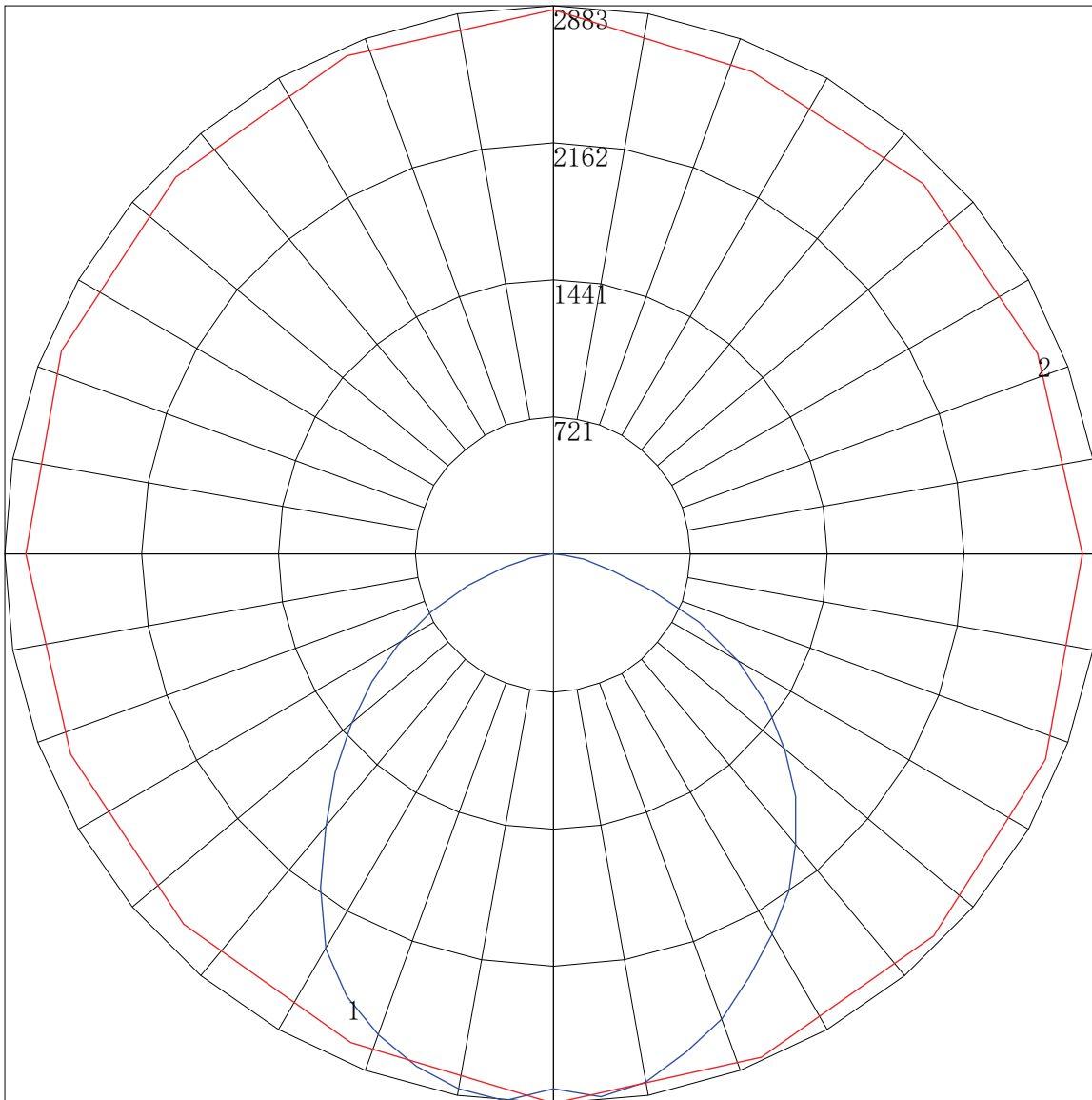
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

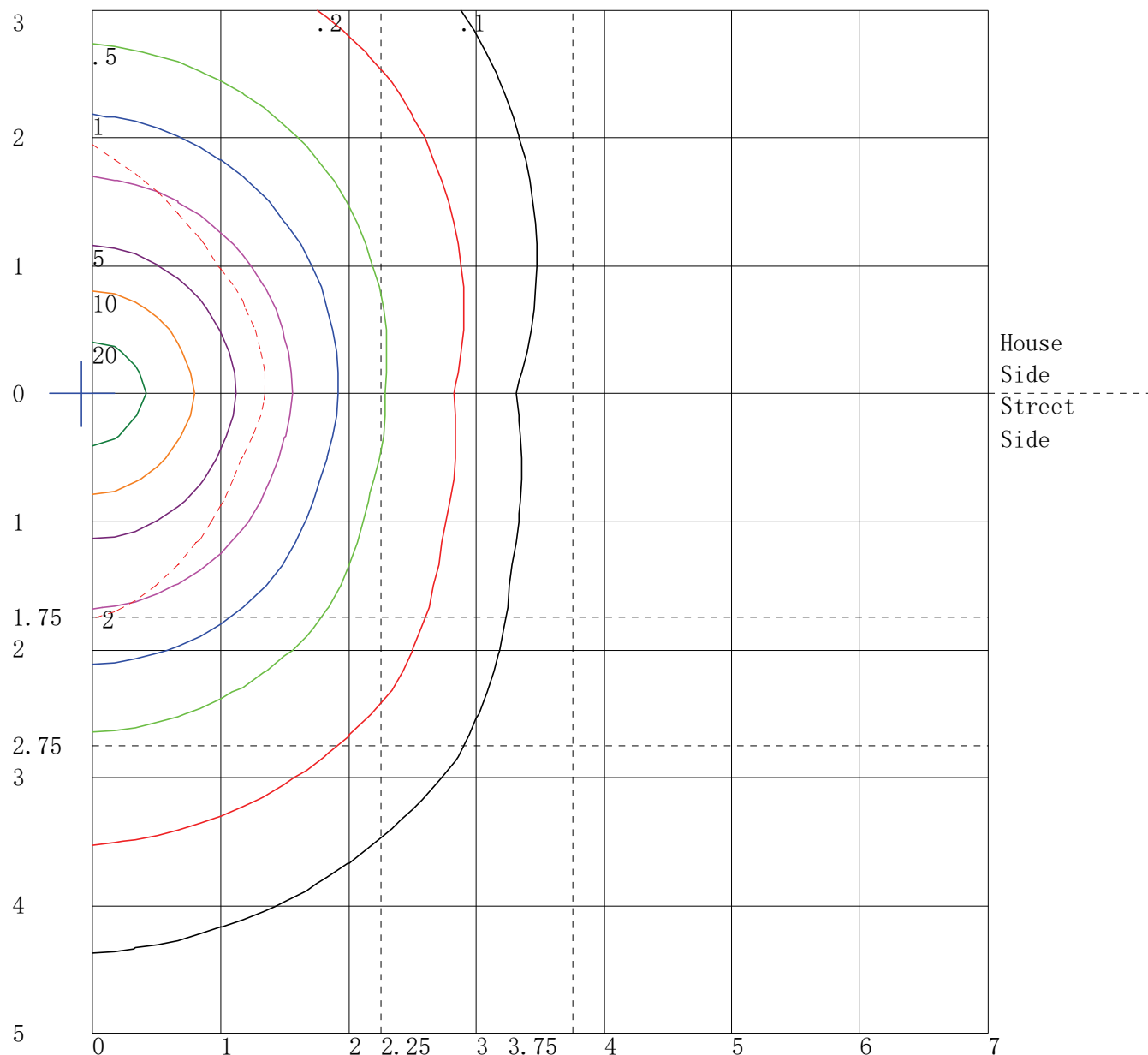
	Lumens	Percent Of Luminaire
Downward Street Side	4159.0	46.7
Downward House Side	4298.6	48.3
Downward Total	8457.6	95.1
Upward Street Side	213.2	2.4
Upward House Side	226.9	2.6
Upward Total	440.1	4.9
Total Flux	8897.7	100.0

POLAR GRAPH



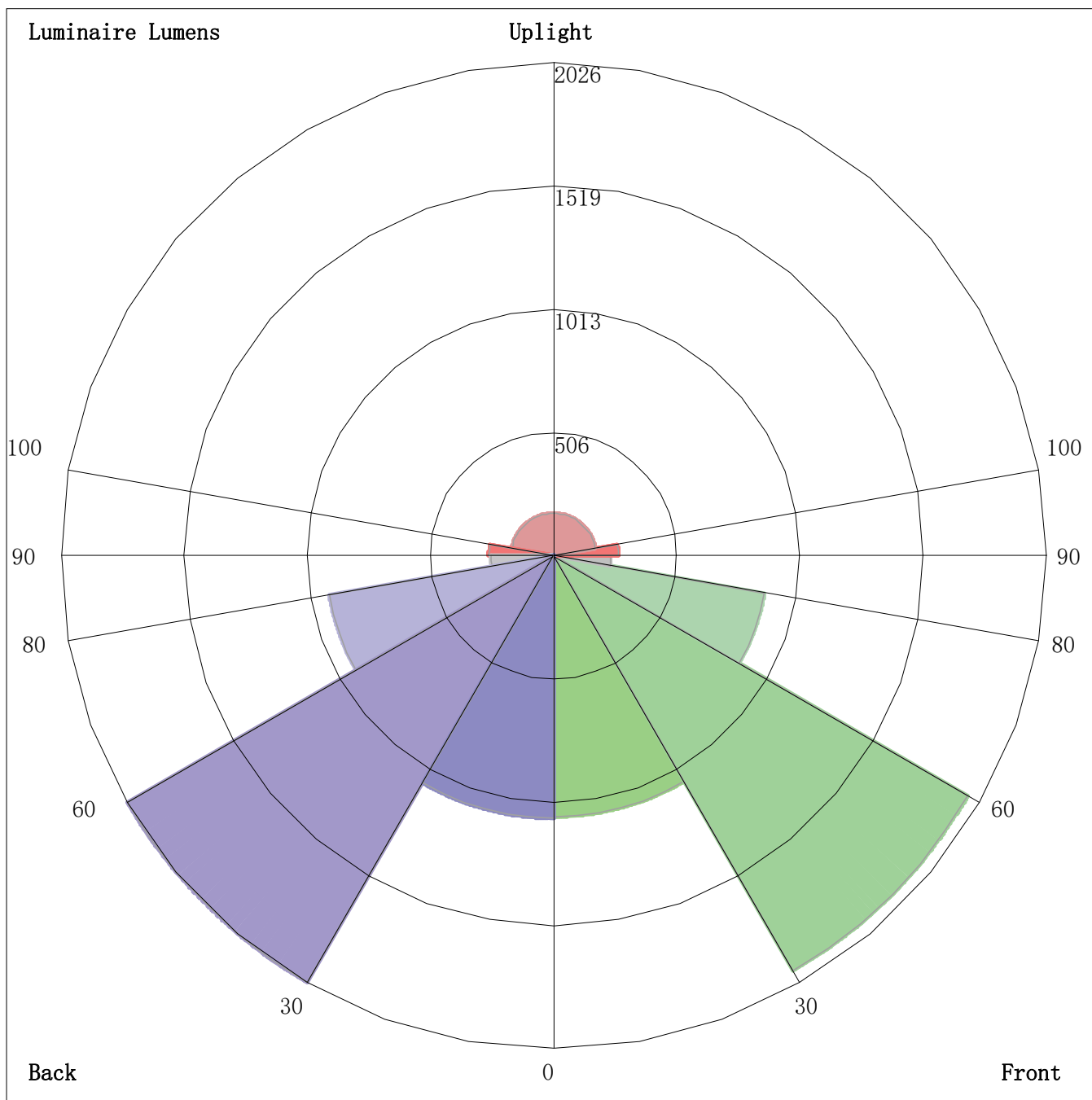
Maximum Candela = 2882.91 Located At Horizontal Angle = 270, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 10 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1072.3, Medium=1969.9, High=881.6, Very High=235.2
Back: Low=1078.6, Medium=2025.8, High=937.3, Very High=256.9
Uplight: Low=266.2, High=173.9

BUG Rating : B3-U3-G3