

IES ROAD REPORT

PHOTOMETRIC FILENAME : S28928 3000K 120V.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BL211123016-9
 [TESTLAB] Shenzhen Belling Efficiency Testing Lab Co.,Ltd
 [TESTDATE] 2021-08-17
 [ISSUEDATE] 2021-12-10
 [MANUFAC] Satco Products, Inc.
 [LUMCAT] S28928 3000K
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP]
 [LumELE] 120.08 0.164 19.517 0.9918

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2883
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	19.517
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	952.73
Maximum Candela Angle	0H 10V
Maximum Candela (<90 Degrees Vertical)	952.73
Maximum Candela Angle (<90 Degrees Vertical)	0H 10V
Maximum Candela At 90 Degrees Vertical	212.626 (7.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	292.254 (10.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	367.1	N.A.	12.7
FM - Front-Medium (30-60)	675.2	N.A.	23.4
FH - Front-High (60-80)	298.6	N.A.	10.4
FVH - Front-Very High (80-90)	79.5	N.A.	2.8
BL - Back-Low (0-30)	330.7	N.A.	11.5
BM - Back-Medium (30-60)	628.5	N.A.	21.8
BH - Back-High (60-80)	286.5	N.A.	9.9
BVH - Back-Very High (80-90)	77.9	N.A.	2.7
UL - Uplight-Low (90-100)	85.5	N.A.	3.0
UH - Uplight-High (100-180)	53.8	N.A.	1.9

Total 2883.3 N.A. 100.0

BUG Rating B1-U3-G1

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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	895.459	895.459	895.459	895.459	895.459	895.459	895.459	895.459	895.459	895.459
5	933.792	928.411	914.638	889.889	898.928	882.572	869.014	862.127	867.507	855.025
10	952.730	932.931	908.397	890.319	890.104	854.379	841.682	830.276	833.074	824.896
15	935.298	922.170	903.662	889.458	864.494	831.137	808.970	803.160	807.033	807.249
20	904.093	890.750	880.204	864.279	836.087	794.336	784.006	779.056	779.702	785.297
25	865.355	848.353	845.986	827.048	802.084	757.105	748.927	746.775	750.649	751.079
30	813.705	788.095	792.399	784.867	764.422	717.937	708.037	703.948	712.557	711.265
35	733.862	725.469	731.710	748.281	722.672	673.604	658.754	658.539	663.489	664.565
40	637.879	659.400	670.591	678.338	660.907	619.802	612.485	603.876	606.459	611.193
45	546.415	568.152	613.991	620.878	629.056	569.658	557.606	541.896	546.200	548.783
50	463.560	480.777	544.479	581.279	575.899	524.249	502.728	478.625	476.688	481.638
55	392.756	404.593	482.283	534.149	532.427	477.764	446.343	410.403	404.808	411.695
60	317.433	334.435	420.518	471.953	499.715	444.191	397.276	343.043	316.357	340.891
65	237.375	273.961	361.551	424.607	443.546	391.680	346.271	280.632	227.906	275.467
70	156.457	215.424	300.216	370.375	383.287	334.219	291.823	214.133	144.405	208.537
75	87.160	154.090	233.286	307.749	338.308	292.038	242.110	158.824	81.779	150.861
80	39.814	103.515	178.193	257.390	292.254	245.984	193.903	99.857	33.573	95.983
85	17.862	63.487	145.481	204.233	251.794	206.385	153.659	61.119	10.330	63.702
90	1.291	39.168	115.998	171.952	212.626	172.382	121.378	39.383	0.861	40.890
95	1.291	22.597	88.236	85.438	180.560	142.899	95.122	21.736	0.861	20.875
100	0.861	7.748	1.722	108.680	1.291	1.937	42.611	10.760	0.646	10.545
105	0.646	1.506	33.573	31.851	117.289	44.548	20.660	0.646	0.861	0.646
110	1.076	7.317	15.495	19.369	84.577	15.925	22.167	3.228	0.215	2.583
115	1.506	3.659	5.165	20.230	60.474	18.293	7.963	3.228	0.861	3.874
120	1.722	1.937	3.443	12.482	32.927	11.406	2.583	1.506	0.861	1.722
125	1.506	1.506	1.722	8.608	12.482	7.532	1.937	1.291	1.076	1.722
130	1.506	1.722	1.291	0.861	7.532	2.367	1.722	1.506	0.861	1.506
135	1.506	1.506	0.861	1.076	1.506	1.506	1.076	1.506	0.861	1.722
140	1.076	1.076	0.861	1.291	1.722	1.291	1.291	1.291	0.861	0.646
145	1.076	0.861	1.076	1.506	1.506	1.291	1.291	1.076	1.076	0.861
150	1.076	1.076	1.076	1.506	1.506	1.291	1.506	1.291	1.076	1.076
155	1.076	1.076	1.291	1.506	1.506	1.506	1.506	1.291	1.291	0.861
160	1.291	1.076	1.291	1.506	1.291	1.291	1.291	1.076	1.291	1.076
165	1.506	1.291	1.722	1.506	1.291	1.506	1.291	1.291	1.291	1.076
170	1.291	1.506	1.291	1.291	1.291	1.506	1.291	1.506	1.506	1.291
175	1.291	1.291	1.291	1.506	1.291	1.291	1.291	1.291	1.291	1.076
180	1.367	1.367	1.367	1.367	1.367	1.367	1.367	1.367	1.367	1.367

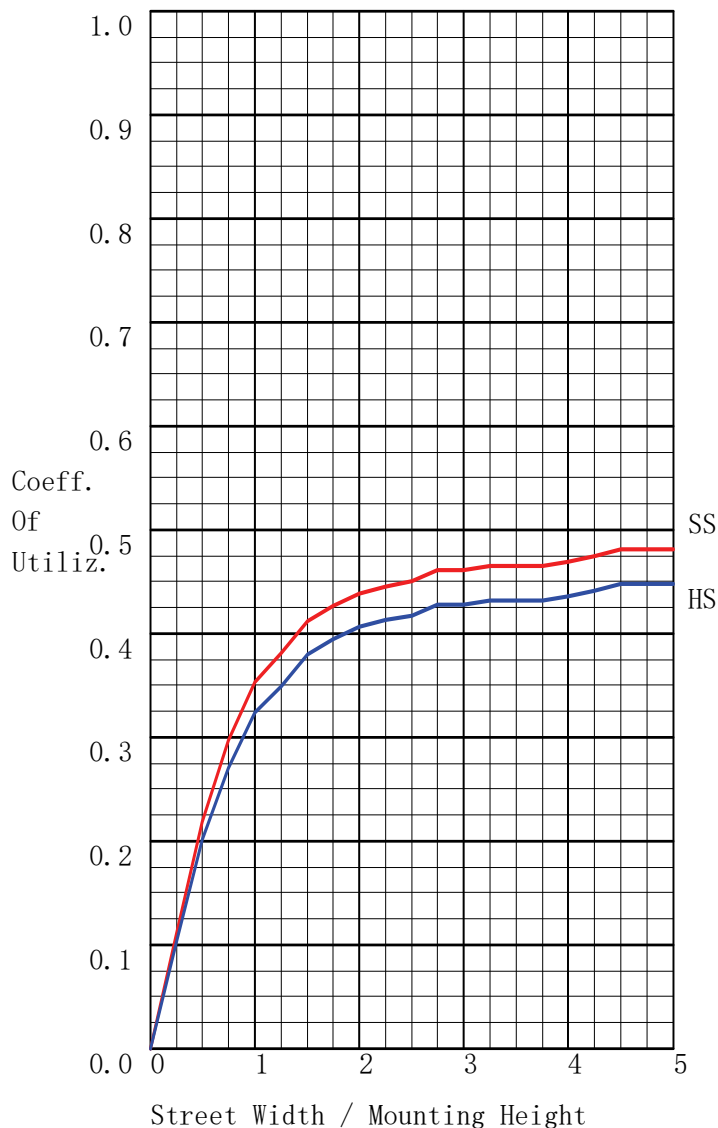
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	895.459	895.459	895.459	895.459	895.459	895.459	895.459
5	847.493	858.684	908.397	908.827	919.372	923.246	933.792
10	822.959	841.252	880.850	916.144	935.944	940.678	952.730
15	800.792	808.970	878.698	902.801	927.550	935.513	935.298
20	773.891	772.170	842.112	890.319	905.384	906.030	904.093
25	745.053	744.192	807.679	858.899	869.229	866.861	865.355
30	709.759	708.468	765.713	816.718	820.592	812.629	813.705
35	663.704	666.072	708.252	761.840	757.751	742.901	733.862
40	615.928	612.700	658.970	705.455	688.238	662.413	637.879
45	557.821	560.619	607.535	640.246	629.486	573.101	546.415
50	496.487	522.527	545.770	590.103	551.796	481.853	463.560
55	444.406	477.333	530.060	556.100	488.094	410.188	392.756
60	391.250	435.798	479.701	502.513	425.038	340.030	317.433
65	345.410	397.491	414.492	434.937	361.336	273.531	237.375
70	294.621	343.473	379.844	394.478	300.862	215.855	156.457
75	248.136	298.064	341.321	351.867	246.414	160.546	87.160
80	207.677	263.201	279.341	286.873	197.131	111.693	39.814

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CANDELA TABULATION - (Cont.)

85	166.572	217.361	238.236	239.312	157.748	69.943	17.862
90	128.695	181.636	206.601	205.740	126.973	45.624	1.291
95	101.579	153.229	176.687	128.695	100.718	26.686	1.291
100	53.587	1.506	130.201	125.467	1.937	7.102	0.861
105	15.925	67.791	117.289	37.877	47.346	2.367	0.646
110	23.027	25.610	82.210	15.710	16.141	6.887	1.076
115	7.317	19.369	47.346	19.369	4.304	3.228	1.506
120	3.013	9.469	22.382	13.558	4.089	1.937	1.722
125	1.722	9.254	12.052	10.976	1.722	1.506	1.506
130	1.291	5.165	8.393	7.102	1.076	1.506	1.506
135	0.646	0.646	1.506	1.076	1.076	1.076	1.506
140	1.076	0.861	1.506	1.291	0.861	1.076	1.076
145	0.646	1.076	1.506	1.291	0.646	0.861	1.076
150	1.076	1.076	1.722	1.291	0.861	1.076	1.076
155	1.076	1.076	1.722	1.076	0.861	1.076	1.076
160	0.861	1.076	1.506	1.291	1.076	1.291	1.291
165	1.076	1.076	1.506	1.076	1.506	1.506	1.506
170	1.291	0.861	1.506	1.291	1.291	1.076	1.291
175	1.291	1.076	1.722	1.291	1.076	1.291	1.291
180	1.367	1.367	1.367	1.367	1.367	1.367	1.367

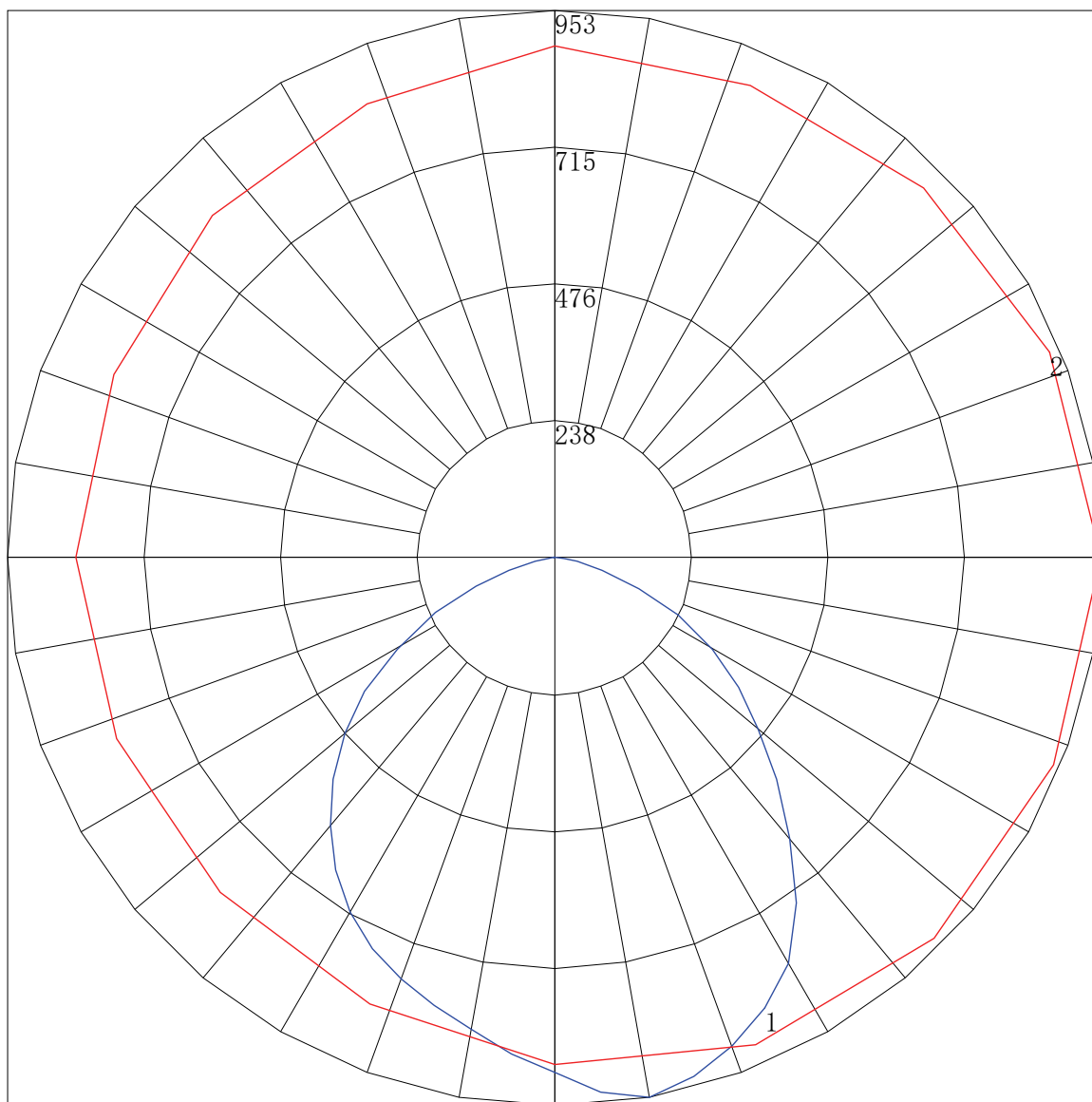
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1420.4	49.3
Downward House Side	1323.5	45.9
Downward Total	2743.9	95.2
Upward Street Side	70.7	2.5
Upward House Side	68.7	2.4
Upward Total	139.4	4.8
Total Flux	2883.3	100.0

POLAR GRAPH

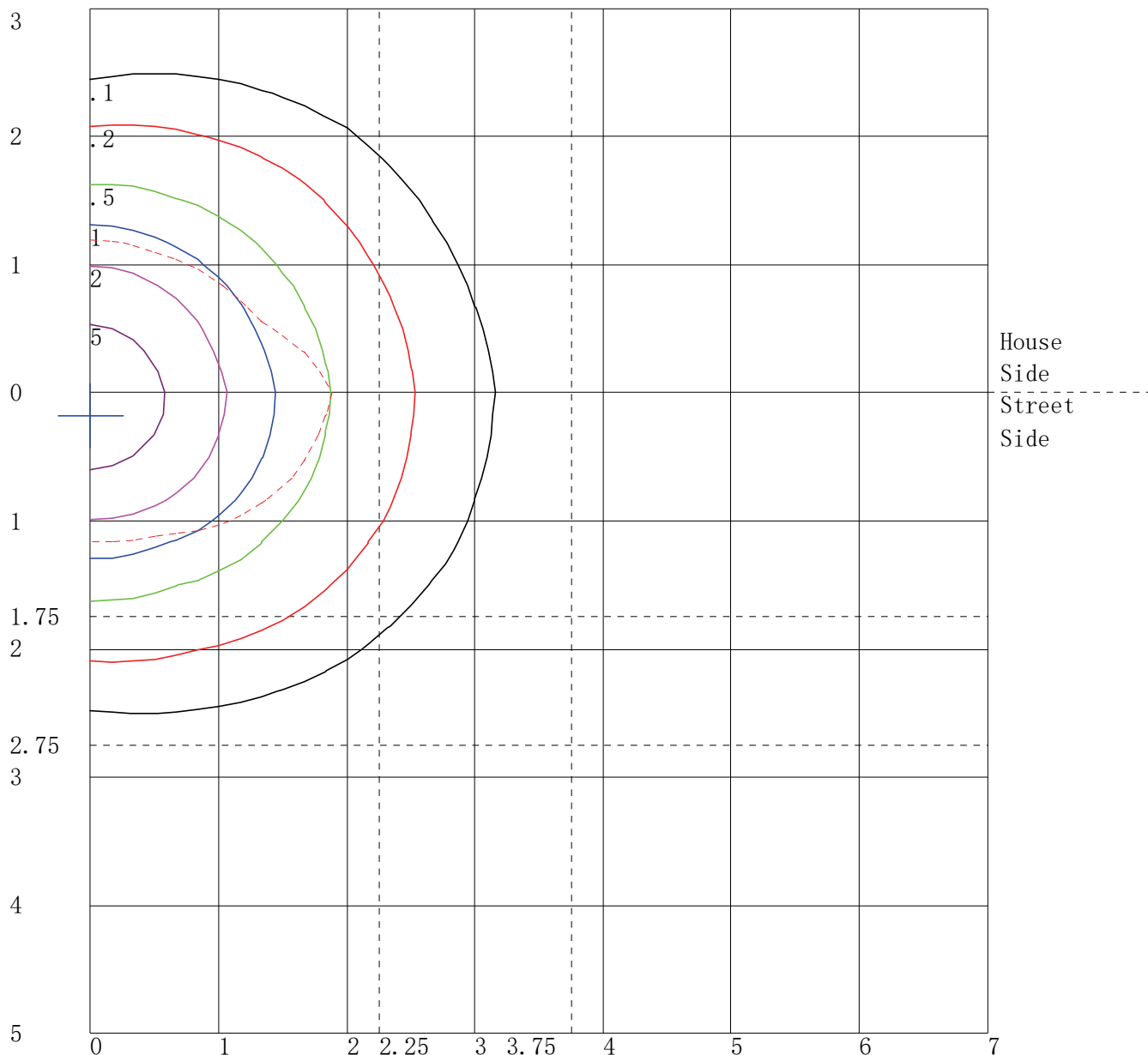


Maximum Candela = 952.73 Located At Horizontal Angle = 0, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

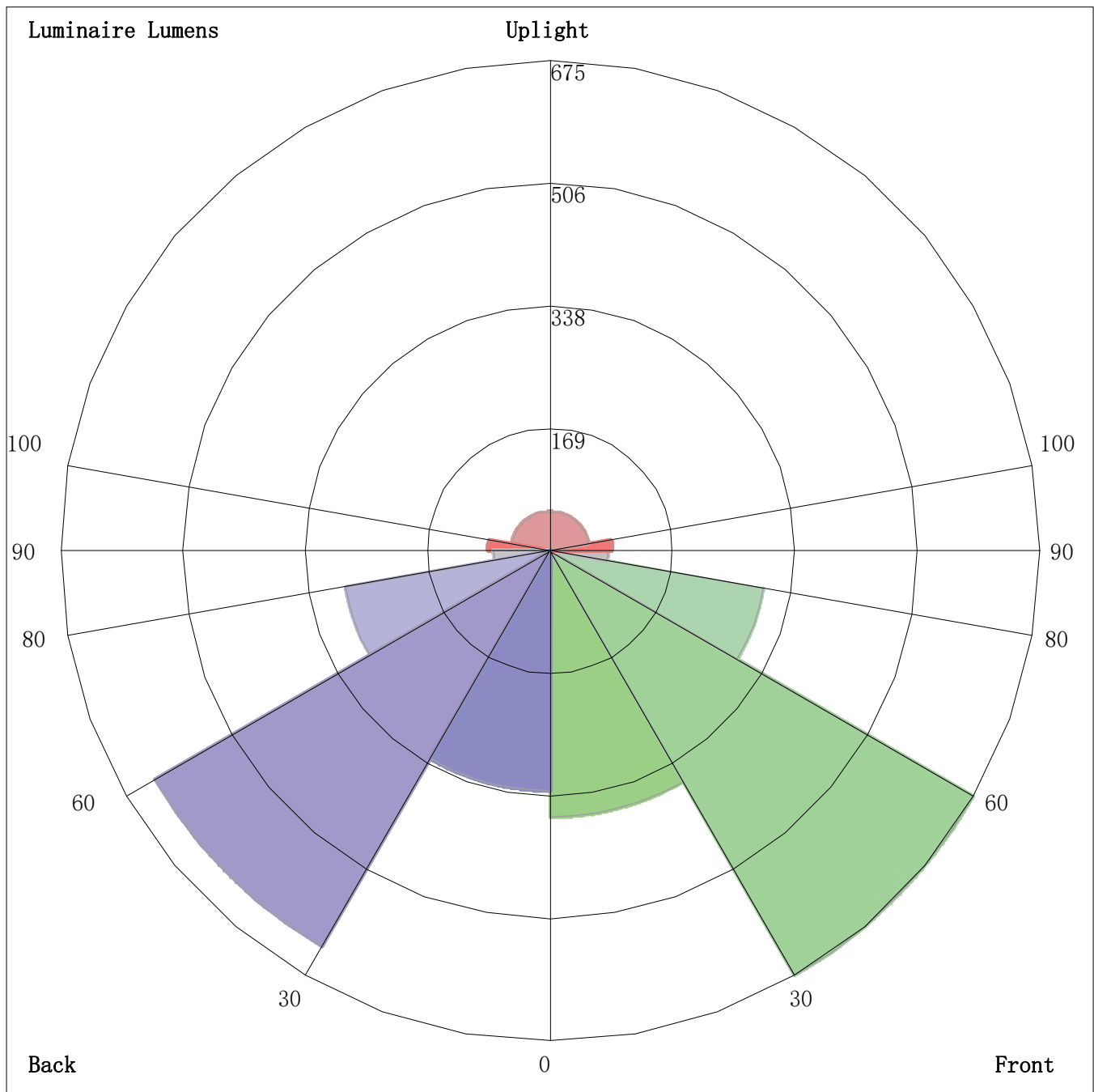
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

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=367.1, Medium=675.2, High=298.6, Very High=79.5
Back: Low=330.7, Medium=628.5, High=286.5, Very High=77.9
Uplight: Low=85.5, High=53.8

BUG Rating : B1-U3-G1