



IES ROAD REPORT
PHOTOMETRIC FILENAME : BOLPR18W.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LCZP17100322
 [TESTLAB] LCTECH
 [TESTDATE] 2017/11/13
 [ISSUE DATE] 2017/11/13
 [MANUFAC] SAYLITE
 [LUMCAT] BOLPR18W
 [LUMINAIRE] Bollards
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	2094.25 (1 lamp)
Total Lamp Lumens	2094.25
Luminaire Lumens	2094
Downward Total Efficiency	93 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	18.43
Ballast Factor	1.00
Upward Waste Light Ratio	0.07
Maximum Candela	898.356
Maximum Candela Angle	0H 55V
Maximum Candela (<90 Degrees Vertical)	898.356
Maximum Candela Angle (<90 Degrees Vertical)	0H 55V
Maximum Candela At 90 Degrees Vertical	28.836 (1.4% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	113.57 (5.4% Lamp Lumens)
Cutoff Classification (deprecated)	Semi-Cutoff

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

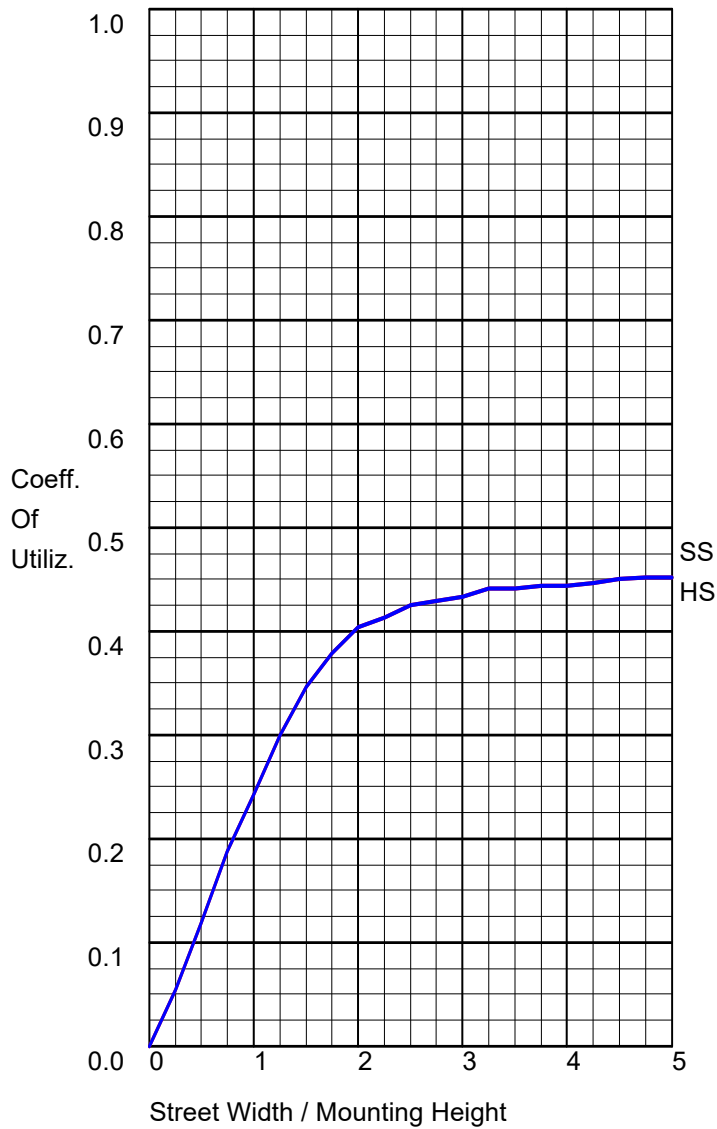
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	34.5	1.6	1.6
FM - Front-Medium (30-60)	575.6	27.5	27.5
FH - Front-High (60-80)	324.7	15.5	15.5
FVH - Front-Very High (80-90)	34.2	1.6	1.6
BL - Back-Low (0-30)	34.5	1.6	1.6
BM - Back-Medium (30-60)	575.6	27.5	27.5
BH - Back-High (60-80)	324.7	15.5	15.5
BVH - Back-Very High (80-90)	34.2	1.6	1.6
UL - Uplight-Low (90-100)	38.8	1.9	1.9
UH - Uplight-High (100-180)	117.4	5.6	5.6
Total	2094.2	99.9	100.0
BUG Rating	B1-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles						
	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.887	0.887	0.887	0.887	1.109	1.109	0.887
15	2.662	2.662	2.440	2.440	2.440	2.440	2.218
20	17.302	19.963	21.738	18.854	17.967	17.302	11.091
25	164.144	152.388	155.050	150.835	155.271	146.621	153.941
30	236.900	237.787	234.460	231.576	236.456	229.580	235.125
35	293.685	294.350	293.685	290.358	291.245	292.354	295.016
40	345.146	343.372	339.823	336.052	339.379	336.939	338.492
45	381.524	381.081	381.302	387.513	389.066	384.851	390.397
50	456.498	459.604	462.487	458.494	464.262	466.480	466.702
55	898.356	898.134	884.825	871.516	865.527	852.440	856.655
60	753.732	769.925	757.059	736.874	712.918	698.278	706.263
65	415.684	411.913	405.480	410.804	415.906	418.346	419.677
70	275.052	269.285	267.289	268.841	270.838	274.165	274.165
75	182.777	181.224	181.446	182.333	183.886	183.664	186.326
80	110.908	111.130	110.465	109.577	112.239	111.574	113.570
85	56.785	56.120	55.454	54.789	55.898	56.563	56.785
90	28.836	28.836	28.392	27.727	28.171	27.727	28.836
95	29.723	30.167	31.498	31.720	32.385	31.720	32.385
100	45.251	46.138	48.578	52.349	53.680	54.567	57.229
105	82.072	77.192	75.418	75.861	75.196	73.421	74.087
110	23.956	24.622	24.622	24.400	23.956	23.069	23.956
115	25.287	25.731	27.505	29.723	30.389	28.836	28.392
120	20.407	21.516	22.182	23.291	20.629	22.182	22.625
125	21.738	21.960	20.407	22.403	20.185	20.629	20.407
130	14.640	14.418	13.974	13.974	13.309	13.087	13.753
135	8.429	8.207	8.207	8.429	8.651	8.429	7.985
140	7.098	6.654	6.433	6.876	6.433	6.654	6.654
145	5.767	5.767	5.767	5.989	5.989	5.767	5.767
150	5.324	5.102	5.324	5.324	5.324	5.102	5.324
155	4.880	4.880	4.436	4.436	4.436	4.658	4.880
160	3.993	4.215	4.215	4.215	4.215	3.993	3.993
165	3.549	3.549	3.327	3.327	3.327	3.327	3.549
170	3.105	3.105	2.884	3.105	3.105	3.105	3.105
175	2.662	2.440	2.218	2.218	2.218	2.218	2.218
180	0.950	0.950	0.950	0.950	0.950	0.950	0.950

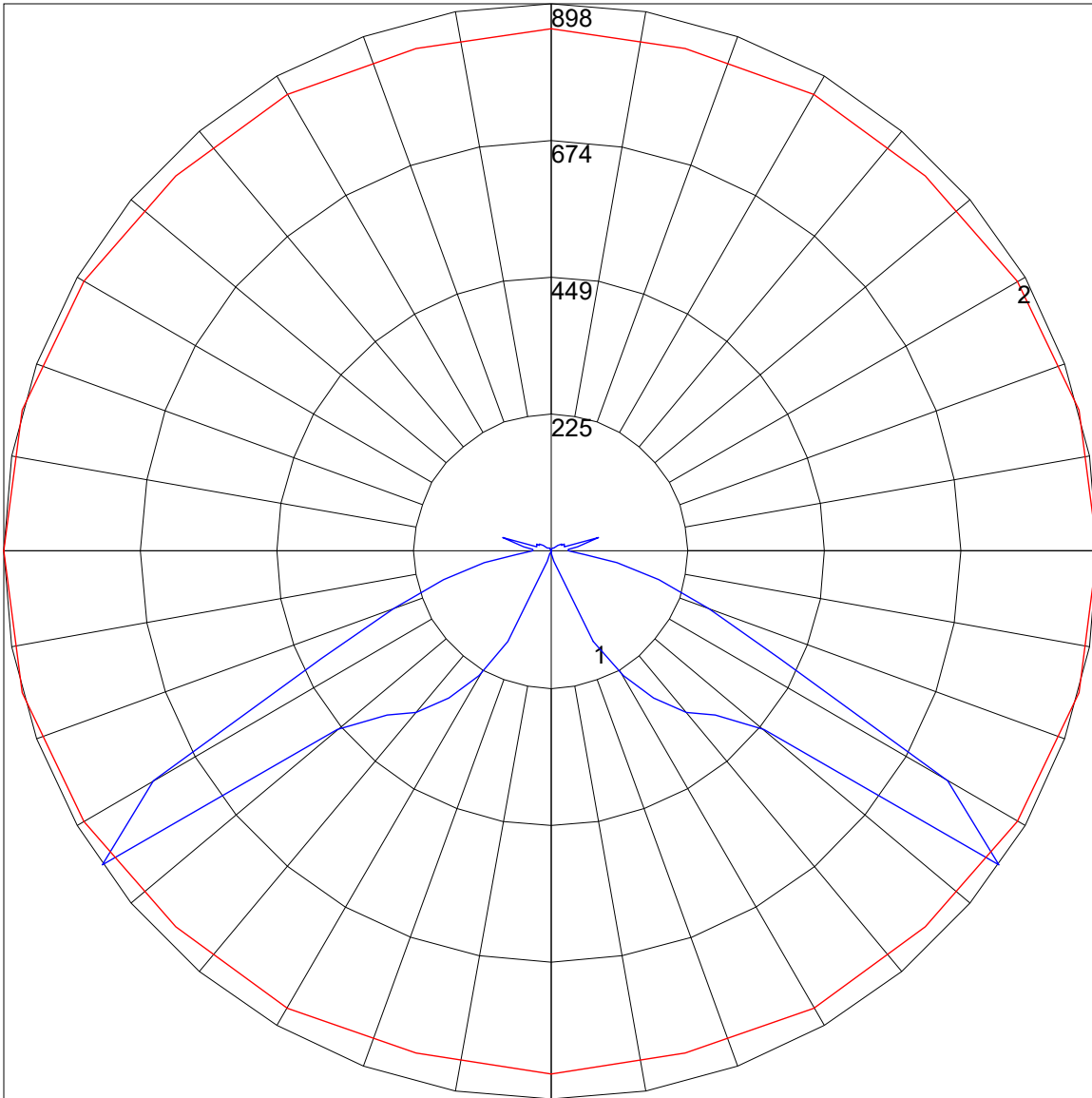
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

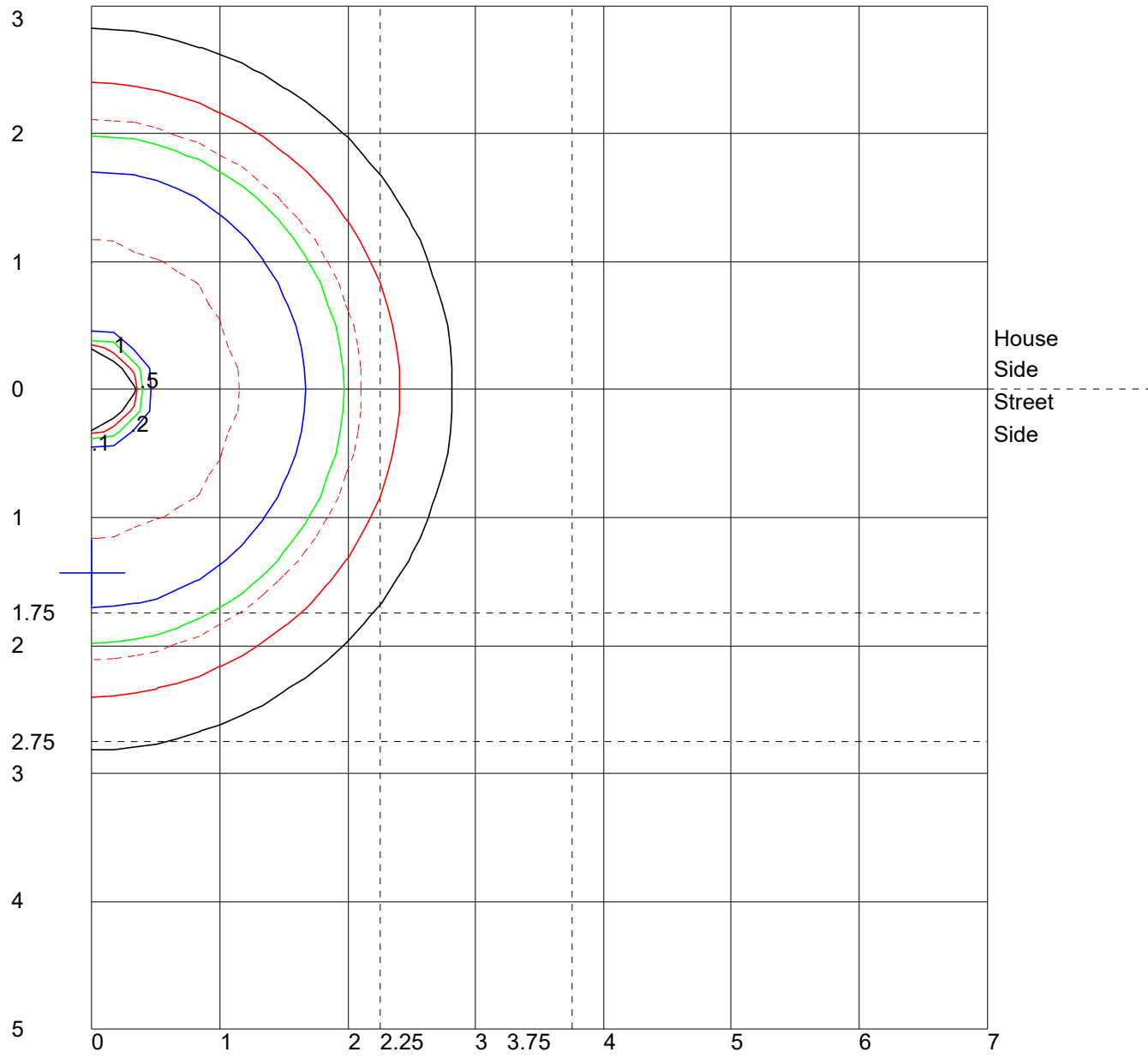
	Lumens	Percent Of Lamp
Downward Street Side	969.0	46.3
Downward House Side	969.0	46.3
Downward Total	1938.0	92.5
Upward Street Side	78.1	3.7
Upward House Side	78.1	3.7
Upward Total	156.2	7.5
Total Flux	2094.2	100.0

POLAR GRAPH



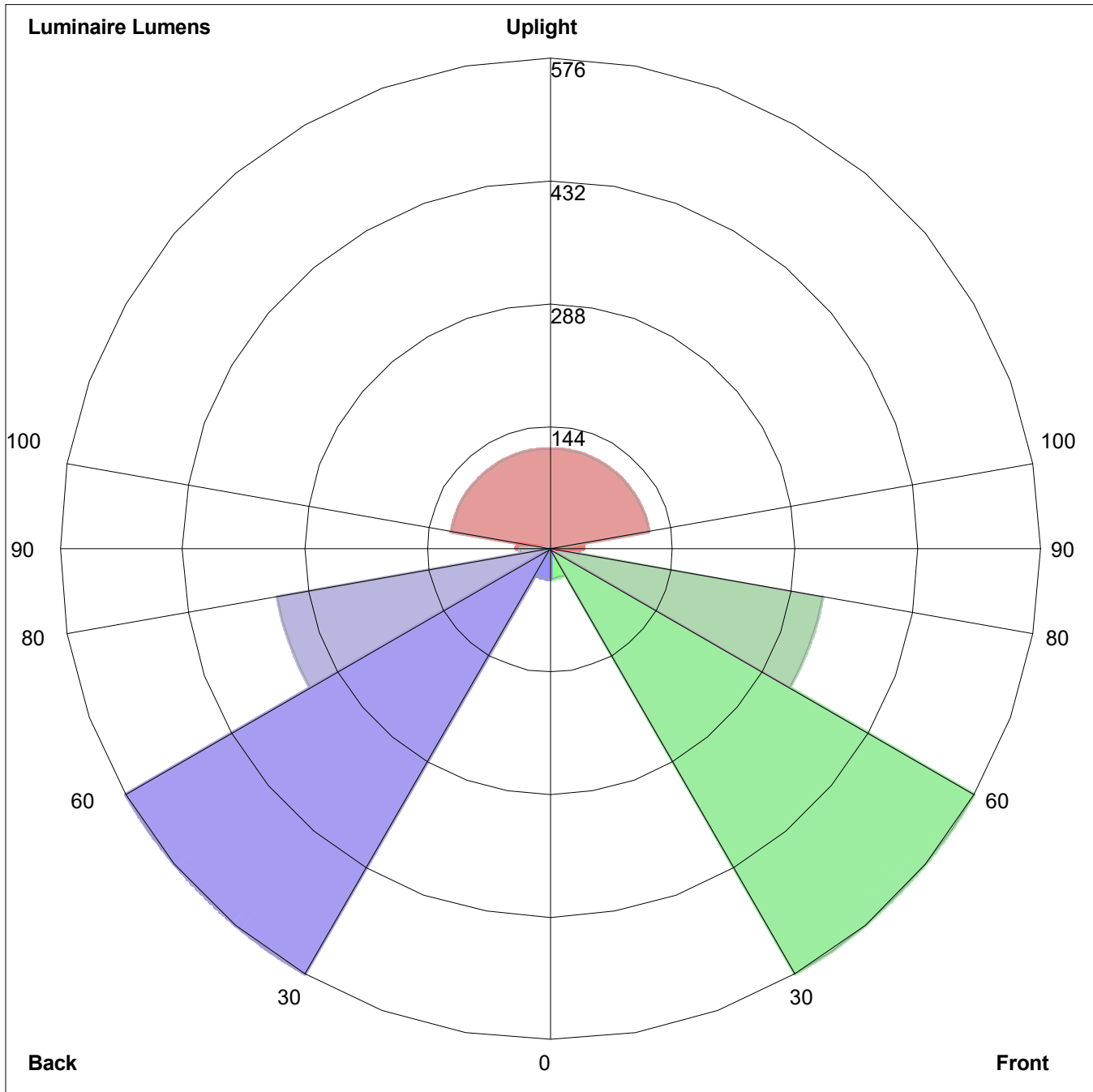
Maximum Candela = 898.356 Located At Horizontal Angle = 0, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

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=34.5, Medium=575.6, High=324.7, Very High=34.2
 Back: Low=34.5, Medium=575.6, High=324.7, Very High=34.2
 Uplight: Low=38.8, High=117.4

BUG Rating : B1-U3-G1