



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWMH-L20-740-T3-XXX-SDGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM ATAL009397
[TESTLAB]ATAL-LABS
[ISSUEDATE] 6-DEC-2022
[MANUFAC]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT]VWMH-L20-740-T3-SDGL-xxx-DIM-UNV
[LUMINAIRE]VOLTAIRE HORIZONTAL MINI ARCHITECTURAL WALL PACK WITH TYPE
[MORE]III MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A SOLITE
[MORE]GLASS LENS.
[LAMP](4) LUXEON M 4000K LEDS
[BALLASTCAT]X1-EUC-018S050DSP
[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 27, AMPS: 0.2095, VAC: 120.03, TEMP: 25.6 C
[_SEARCH_SOURCE] LED
[_SEARCH_APPLICATION] Outdoor, Architectural, Commercial, Facade, Direct, Wet Location
[_SEARCH_MOUNTING] Wall
[_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2834
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	27
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1124.784
Maximum Candela Angle	5H 30V
Maximum Candela (<90 Degrees Vertical)	1124.784
Maximum Candela Angle (<90 Degrees Vertical)	5H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	267.072 (9.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWMH-L20-740-T3-XXX-SDGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	403.0	N.A.	14.2
FM - Front-Medium (30-60)	1039.2	N.A.	36.7
FH - Front-High (60-80)	417.2	N.A.	14.7
FVH - Front-Very High (80-90)	33.6	N.A.	1.2
BL - Back-Low (0-30)	275.4	N.A.	9.7
BM - Back-Medium (30-60)	489.9	N.A.	17.3
BH - Back-High (60-80)	165.8	N.A.	5.9
BVH - Back-Very High (80-90)	10.3	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	2834.4	N.A.	100.0
BUG Rating	B1-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>
0.0	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624
2.5	830.748	830.748	832.032	838.452	841.020	842.304	837.168	832.032	832.032	834.600
5.0	839.736	839.736	841.020	847.440	850.008	852.576	848.724	847.440	847.440	850.008
7.5	873.120	871.836	873.120	880.824	882.108	884.676	879.540	876.972	873.120	870.552
10.0	891.096	891.096	893.664	900.084	906.504	909.072	907.788	906.504	903.936	901.368
12.5	901.368	902.652	905.220	914.208	918.060	918.060	916.776	916.776	918.060	921.912
15.0	924.480	925.764	929.616	937.320	938.604	938.604	932.184	930.900	927.048	928.332
17.5	952.728	954.012	956.580	961.716	960.432	960.432	955.296	952.728	948.876	947.592
20.0	1002.804	1000.236	1001.520	1001.520	991.248	987.396	977.124	970.704	966.852	964.284
22.5	1045.176	1045.176	1045.176	1041.324	1029.768	1019.496	1004.088	993.816	980.976	970.704
25.0	1081.128	1081.128	1079.844	1074.708	1055.448	1041.324	1024.632	1014.360	1001.520	987.396
27.5	1108.092	1109.376	1109.376	1102.956	1083.696	1064.436	1045.176	1027.200	1013.076	1006.656
30.0	1118.364	1122.216	1124.784	1109.376	1095.252	1079.844	1064.436	1046.460	1033.620	1018.212
32.5	1114.512	1117.080	1120.932	1106.808	1095.252	1081.128	1069.572	1058.016	1051.596	1037.472
35.0	1082.412	1084.980	1088.832	1075.992	1069.572	1068.288	1067.004	1072.140	1067.004	1054.164
37.5	1028.484	1029.768	1032.336	1025.916	1032.336	1040.040	1052.880	1070.856	1070.856	1067.004
40.0	939.888	943.740	948.876	951.444	968.136	989.964	1024.632	1049.028	1067.004	1072.140
42.5	842.304	847.440	853.860	871.836	882.108	921.912	973.272	1018.212	1052.880	1064.436
45.0	749.856	758.844	758.844	775.536	799.932	841.020	897.516	963.000	1018.212	1049.028
47.5	661.260	670.248	668.964	690.792	717.756	758.844	816.624	887.244	964.284	1010.508
50.0	575.232	582.936	584.220	607.332	634.296	677.952	743.436	815.340	891.096	952.728
52.5	502.044	507.180	509.748	531.576	561.108	608.616	676.668	749.856	820.476	884.676
55.0	444.264	440.412	441.696	463.524	491.772	540.564	612.468	688.224	753.708	806.352
57.5	374.928	373.644	376.212	398.040	423.720	472.512	545.700	618.888	677.952	724.176
60.0	310.728	309.444	312.012	332.556	358.236	404.460	476.364	544.416	597.060	644.568
62.5	251.664	251.664	254.232	270.924	295.320	340.260	407.028	468.660	522.588	570.096
65.0	199.020	200.304	204.156	218.280	238.824	282.480	340.260	396.756	446.832	490.488
67.5	156.648	156.648	161.784	172.056	188.748	232.404	279.912	328.704	374.928	413.448
70.0	120.696	119.412	124.548	132.252	147.660	183.612	223.416	265.788	306.876	340.260
72.5	91.164	89.880	93.732	100.152	114.276	141.240	175.908	210.576	243.960	273.492
75.0	68.052	66.768	70.620	74.472	86.028	107.856	134.820	163.068	188.748	214.428
77.5	50.076	48.792	51.360	53.928	64.200	78.324	98.868	121.980	139.956	160.500
80.0	34.668	34.668	35.952	38.520	44.940	55.212	70.620	86.028	100.152	114.276
82.5	21.828	21.828	23.112	24.396	29.532	35.952	46.224	56.496	65.484	74.472
85.0	12.840	12.840	12.840	14.124	16.692	20.544	26.964	32.100	37.236	42.372
87.5	5.136	5.136	6.420	6.420	7.704	8.988	11.556	14.124	15.408	16.692
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>45.0</u>	<u>50.0</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
0.0	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624
2.5	834.600	834.600	833.316	830.748	830.748	826.896	825.612	823.044	820.476	817.908
5.0	852.576	851.292	848.724	847.440	846.156	843.588	841.020	835.884	830.748	826.896
7.5	871.836	869.268	865.416	861.564	860.280	858.996	857.712	852.576	844.872	838.452
10.0	901.368	894.948	888.528	882.108	882.108	878.256	875.688	871.836	864.132	851.292
12.5	924.480	923.196	914.208	905.220	901.368	894.948	889.812	885.960	879.540	866.700
15.0	933.468	938.604	937.320	928.332	920.628	910.356	903.936	898.800	892.380	878.256
17.5	946.308	947.592	946.308	945.024	941.172	929.616	918.060	911.640	905.220	888.528
20.0	959.148	952.728	951.444	952.728	954.012	945.024	934.752	924.480	914.208	893.664
22.5	965.568	963.000	959.148	959.148	957.864	955.296	946.308	932.184	920.628	900.084
25.0	975.840	969.420	965.568	968.136	966.852	963.000	952.728	936.036	923.196	900.084
27.5	993.816	980.976	977.124	975.840	970.704	969.420	964.284	946.308	929.616	906.504

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CANDELA TABULATION - (Cont.)

30.0	1009.224	1000.236	983.544	982.260	979.692	978.408	973.272	954.012	934.752	909.072
32.5	1018.212	1007.940	997.668	984.828	991.248	987.396	980.976	961.716	942.456	910.356
35.0	1036.188	1018.212	1009.224	997.668	996.384	996.384	995.100	975.840	951.444	914.208
37.5	1054.164	1032.336	1016.928	1009.224	1004.088	1005.372	1000.236	988.680	964.284	920.628
40.0	1061.868	1047.744	1025.916	1016.928	1007.940	1014.360	1018.212	1007.940	973.272	927.048
42.5	1064.436	1047.744	1033.620	1020.780	1022.064	1031.052	1031.052	1019.496	980.976	930.900
45.0	1049.028	1043.892	1036.188	1024.632	1025.916	1033.620	1037.472	1023.348	983.544	933.468
47.5	1024.632	1025.916	1027.200	1023.348	1023.348	1031.052	1034.904	1025.916	989.964	932.184
50.0	986.112	996.384	1007.940	1010.508	1013.076	1023.348	1031.052	1028.484	991.248	930.900
52.5	933.468	961.716	980.976	992.532	1004.088	1014.360	1027.200	1024.632	991.248	925.764
55.0	864.132	910.356	950.160	974.556	987.396	996.384	1011.792	1013.076	986.112	918.060
57.5	784.524	846.156	905.220	938.604	955.296	974.556	987.396	989.964	961.716	893.664
60.0	701.064	772.968	844.872	888.528	915.492	930.900	942.456	948.876	927.048	862.848
62.5	620.172	694.644	771.684	825.612	865.416	883.392	901.368	912.924	891.096	829.464
65.0	536.712	609.900	689.508	752.424	803.784	828.180	848.724	860.280	846.156	783.240
67.5	457.104	525.156	604.764	674.100	733.164	762.696	780.672	794.796	781.956	725.460
70.0	377.496	439.128	513.600	586.788	650.988	683.088	706.200	712.620	698.496	647.136
72.5	306.876	356.952	425.004	494.340	553.404	585.504	607.332	612.468	591.924	550.836
75.0	241.392	282.480	338.976	400.608	450.684	477.648	493.056	491.772	476.364	441.696
77.5	183.612	214.428	258.084	308.160	347.964	371.076	374.928	372.360	359.520	331.272
80.0	130.968	154.080	186.180	223.416	251.664	265.788	267.072	263.220	252.948	233.688
82.5	84.744	101.436	124.548	147.660	166.920	178.476	173.340	170.772	163.068	150.228
85.0	47.508	56.496	69.336	84.744	92.448	96.300	95.016	93.732	87.312	79.608
87.5	19.260	24.396	28.248	33.384	35.952	38.520	34.668	34.668	33.384	28.248
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles

Horizontal Angles

	<u>95.0</u>	<u>100.0</u>	<u>105.0</u>	<u>110.0</u>	<u>115.0</u>	<u>120.0</u>	<u>125.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624
2.5	816.624	814.056	811.488	806.352	803.784	801.216	802.500	801.216	799.932	797.364
5.0	820.476	815.340	810.204	803.784	798.648	796.080	793.512	790.944	787.092	783.240
7.5	830.748	823.044	815.340	807.636	798.648	792.228	787.092	780.672	771.684	766.548
10.0	839.736	829.464	820.476	810.204	799.932	790.944	779.388	765.264	754.992	746.004
12.5	853.860	841.020	826.896	812.772	797.364	780.672	763.980	753.708	743.436	731.880
15.0	860.280	846.156	830.748	814.056	790.944	771.684	753.708	739.584	722.892	710.052
17.5	869.268	852.576	832.032	808.920	785.808	767.832	744.720	725.460	704.916	685.656
20.0	873.120	852.576	832.032	806.352	783.240	754.992	729.312	708.768	681.804	648.420
22.5	875.688	853.860	828.180	801.216	772.968	739.584	711.336	680.520	645.852	602.196
25.0	874.404	847.440	815.340	787.092	756.276	725.460	685.656	644.568	600.912	546.984
27.5	878.256	844.872	811.488	778.104	737.016	698.496	653.556	608.616	546.984	482.784
30.0	878.256	842.304	805.068	765.264	722.892	674.100	618.888	554.688	489.204	421.152
32.5	870.552	833.316	796.080	753.708	703.632	644.568	580.368	507.180	431.424	376.212
35.0	869.268	823.044	781.956	738.300	680.520	615.036	537.996	455.820	387.768	341.544
37.5	871.836	819.192	770.400	719.040	652.272	579.084	495.624	410.880	350.532	319.716
40.0	874.404	821.760	763.980	701.064	626.592	536.712	446.832	367.224	321.000	301.740
42.5	871.836	812.772	749.856	681.804	595.776	495.624	394.188	327.420	295.320	287.616
45.0	867.984	801.216	730.596	653.556	559.824	449.400	347.964	290.184	267.072	268.356
47.5	861.564	787.092	710.052	626.592	523.872	408.312	309.444	256.800	241.392	252.948
50.0	852.576	776.820	690.792	599.628	485.352	364.656	270.924	227.268	218.280	232.404
52.5	843.588	758.844	671.532	576.516	453.252	329.988	240.108	197.736	195.168	208.008
55.0	829.464	746.004	653.556	553.404	425.004	299.172	211.860	172.056	170.772	182.328
57.5	810.204	717.756	626.592	523.872	391.620	269.640	184.896	150.228	147.660	154.080
60.0	779.388	689.508	591.924	489.204	362.088	241.392	161.784	130.968	125.832	128.400
62.5	742.152	650.988	554.688	451.968	328.704	216.996	143.808	112.992	105.288	105.288
65.0	699.780	611.184	513.600	410.880	296.604	192.600	125.832	97.584	88.596	84.744

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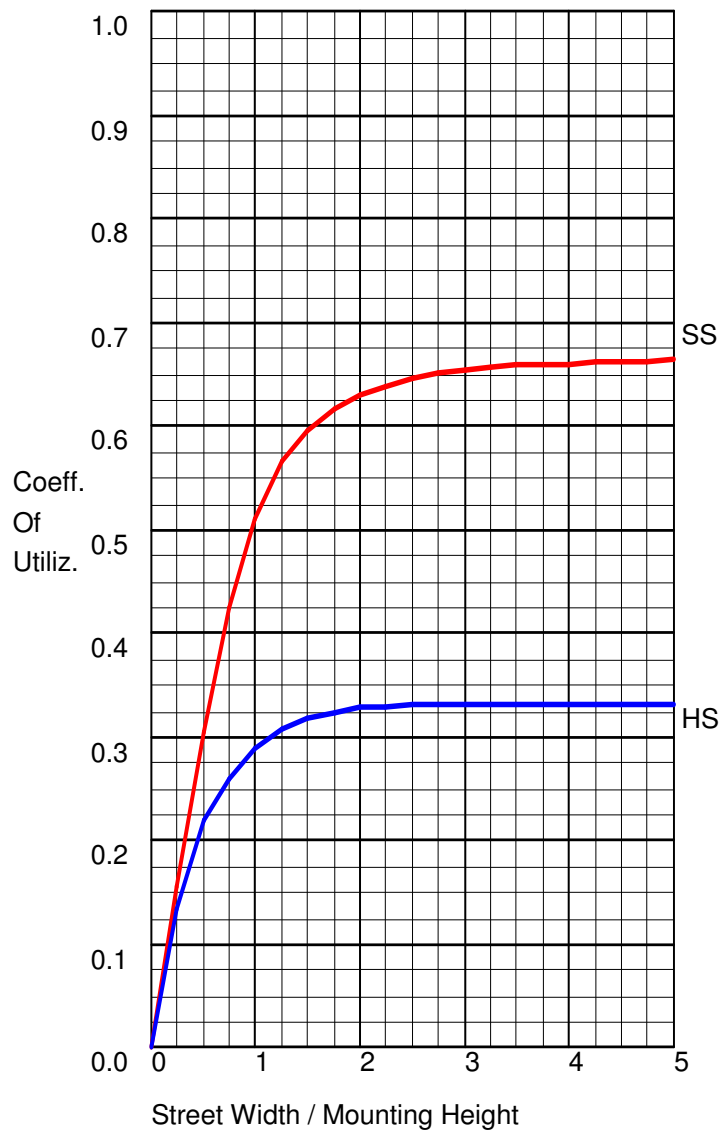
CANDELA TABULATION - (Cont.)

67.5	648.420	562.392	471.228	369.792	264.504	169.488	109.140	82.176	71.904	64.200
70.0	576.516	500.760	418.584	326.136	228.552	145.092	91.164	66.768	51.360	43.656
72.5	489.204	427.572	360.804	277.344	191.316	120.696	73.188	46.224	32.100	26.964
75.0	390.336	344.112	292.752	224.700	154.080	93.732	48.792	25.680	14.124	6.420
77.5	295.320	258.084	223.416	170.772	115.560	47.508	21.828	8.988	2.568	1.284
80.0	209.292	181.044	157.932	120.696	68.052	26.964	10.272	3.852	1.284	0.000
82.5	133.536	114.276	98.868	75.756	35.952	12.840	3.852	1.284	0.000	0.000
85.0	70.620	61.632	51.360	33.384	12.840	3.852	1.284	0.000	0.000	0.000
87.5	24.396	20.544	16.692	6.420	2.568	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	816.624	816.624	816.624	816.624	816.624	816.624	816.624	816.624
2.5	798.648	797.364	797.364	796.080	796.080	798.648	799.932	802.500
5.0	781.956	778.104	775.536	771.684	769.116	771.684	774.252	775.536
7.5	760.128	752.424	747.288	740.868	734.448	734.448	734.448	735.732
10.0	737.016	726.744	719.040	712.620	706.200	703.632	701.064	702.348
12.5	720.324	703.632	689.508	676.668	670.248	667.680	665.112	666.396
15.0	692.076	668.964	652.272	633.012	621.456	618.888	613.752	616.320
17.5	659.976	629.160	602.196	577.800	557.256	553.404	546.984	549.552
20.0	613.752	579.084	543.132	509.748	481.500	473.796	463.524	463.524
22.5	557.256	516.168	469.944	430.140	405.744	389.052	377.496	376.212
25.0	490.488	440.412	394.188	362.088	341.544	328.704	321.000	319.716
27.5	426.288	380.064	342.828	323.568	305.592	299.172	296.604	297.888
30.0	373.644	337.692	315.864	305.592	301.740	300.456	301.740	301.740
32.5	338.976	319.716	310.728	309.444	312.012	315.864	318.432	318.432
35.0	322.284	313.296	314.580	322.284	329.988	336.408	338.976	341.544
37.5	312.012	313.296	322.284	331.272	338.976	345.396	349.248	351.816
40.0	303.024	309.444	321.000	329.988	341.544	350.532	354.384	355.668
42.5	292.752	304.308	319.716	328.704	342.828	355.668	360.804	365.940
45.0	283.764	299.172	317.148	332.556	346.680	356.952	362.088	368.508
47.5	272.208	290.184	310.728	323.568	337.692	345.396	350.532	354.384
50.0	255.516	272.208	287.616	296.604	309.444	318.432	323.568	324.852
52.5	228.552	240.108	250.380	258.084	269.640	274.776	277.344	274.776
55.0	196.452	206.724	209.292	211.860	218.280	218.280	220.848	220.848
57.5	161.784	166.920	165.636	165.636	169.488	168.204	172.056	172.056
60.0	130.968	132.252	129.684	128.400	130.968	130.968	133.536	133.536
62.5	105.288	102.720	101.436	100.152	101.436	101.436	104.004	104.004
65.0	82.176	79.608	78.324	77.040	78.324	78.324	79.608	79.608
67.5	61.632	60.348	57.780	53.928	48.792	38.520	34.668	34.668
70.0	39.804	37.236	24.396	12.840	8.988	5.136	5.136	5.136
72.5	14.124	8.988	5.136	2.568	2.568	1.284	1.284	1.284
75.0	2.568	1.284	1.284	1.284	1.284	0.000	0.000	0.000
77.5	1.284	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

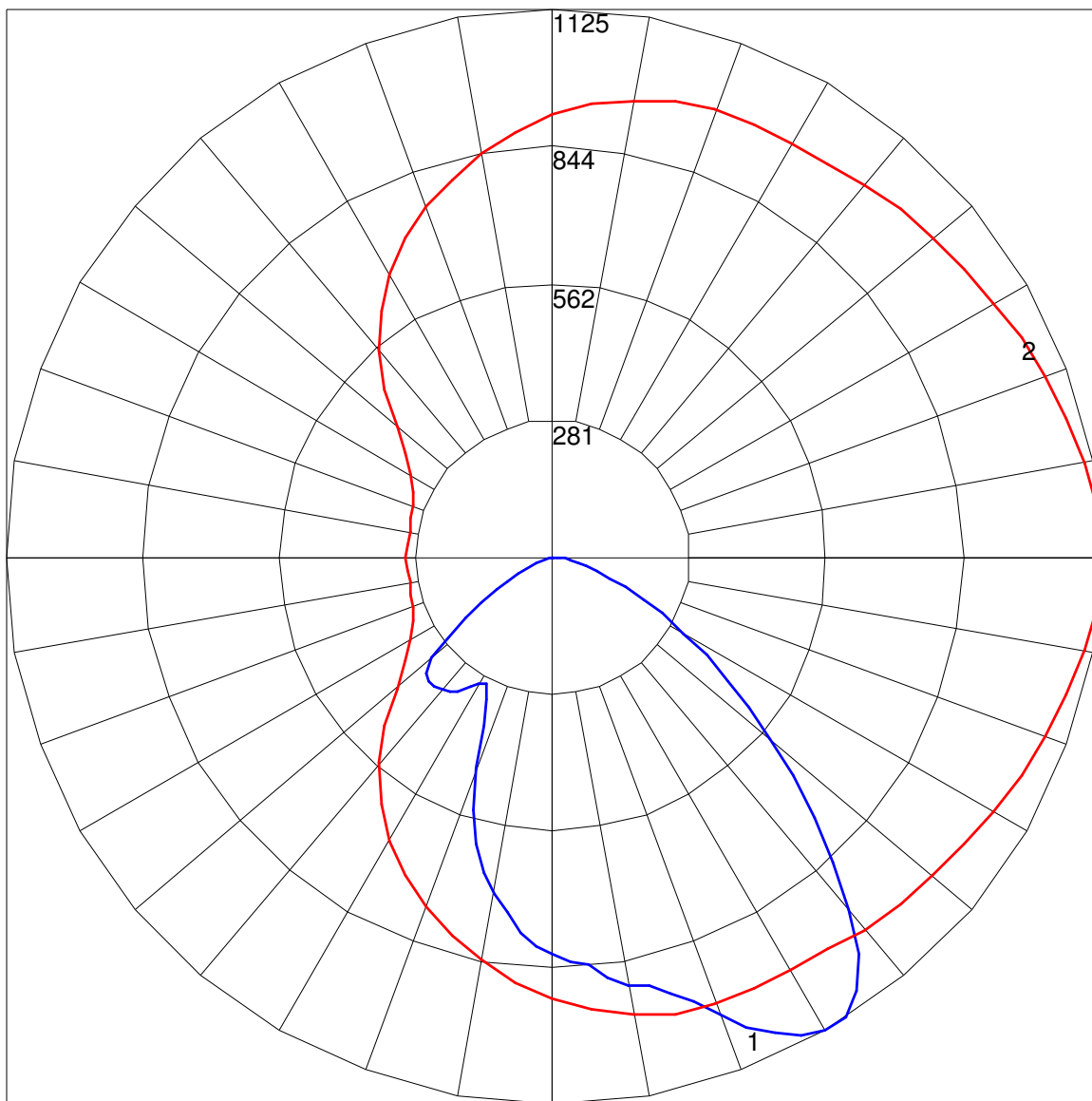
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

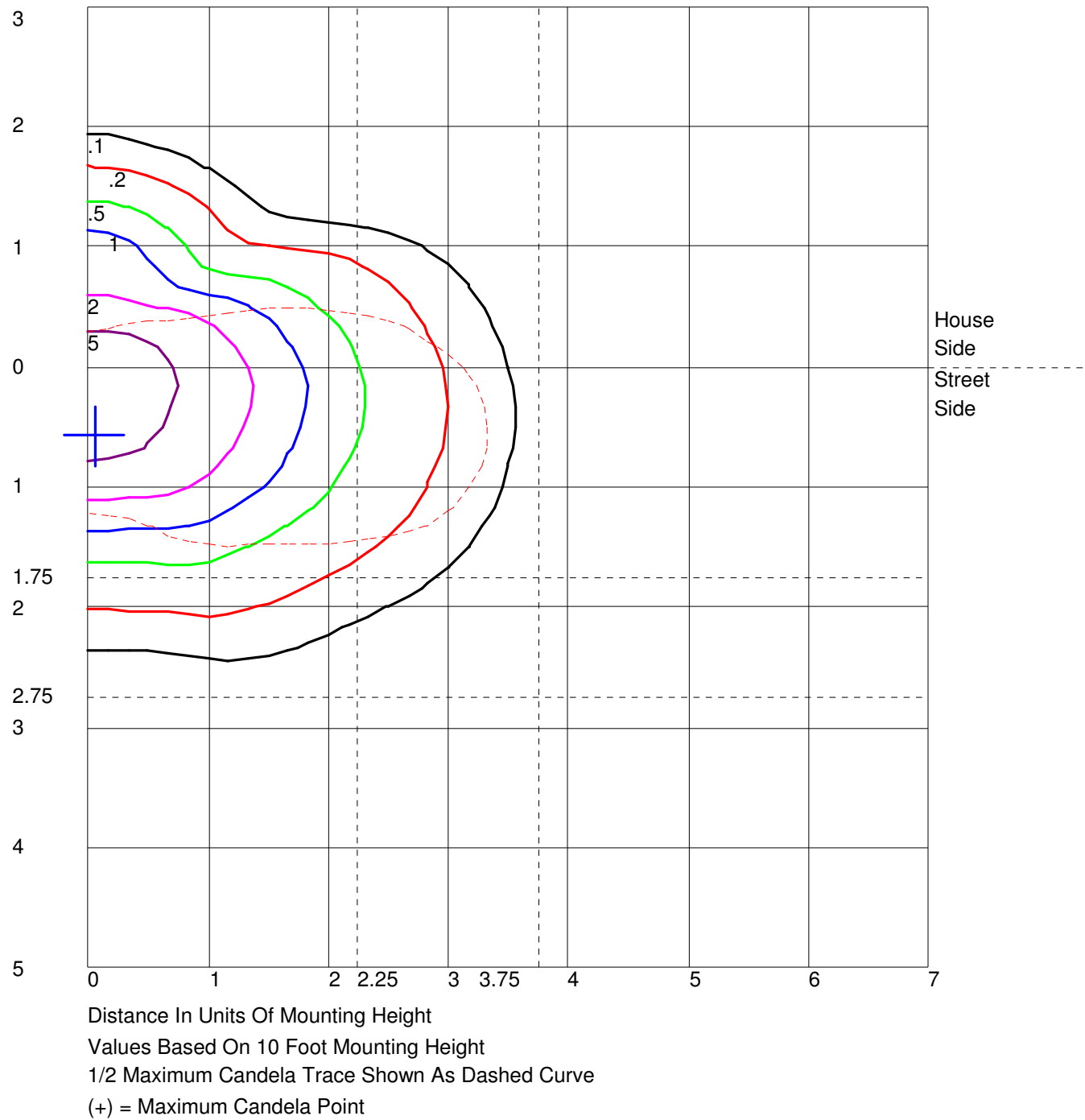
	Lumens	Percent Of Luminaire
Downward Street Side	1893.0	66.8
Downward House Side	941.4	33.2
Downward Total	2834.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2834.4	100.0

POLAR GRAPH

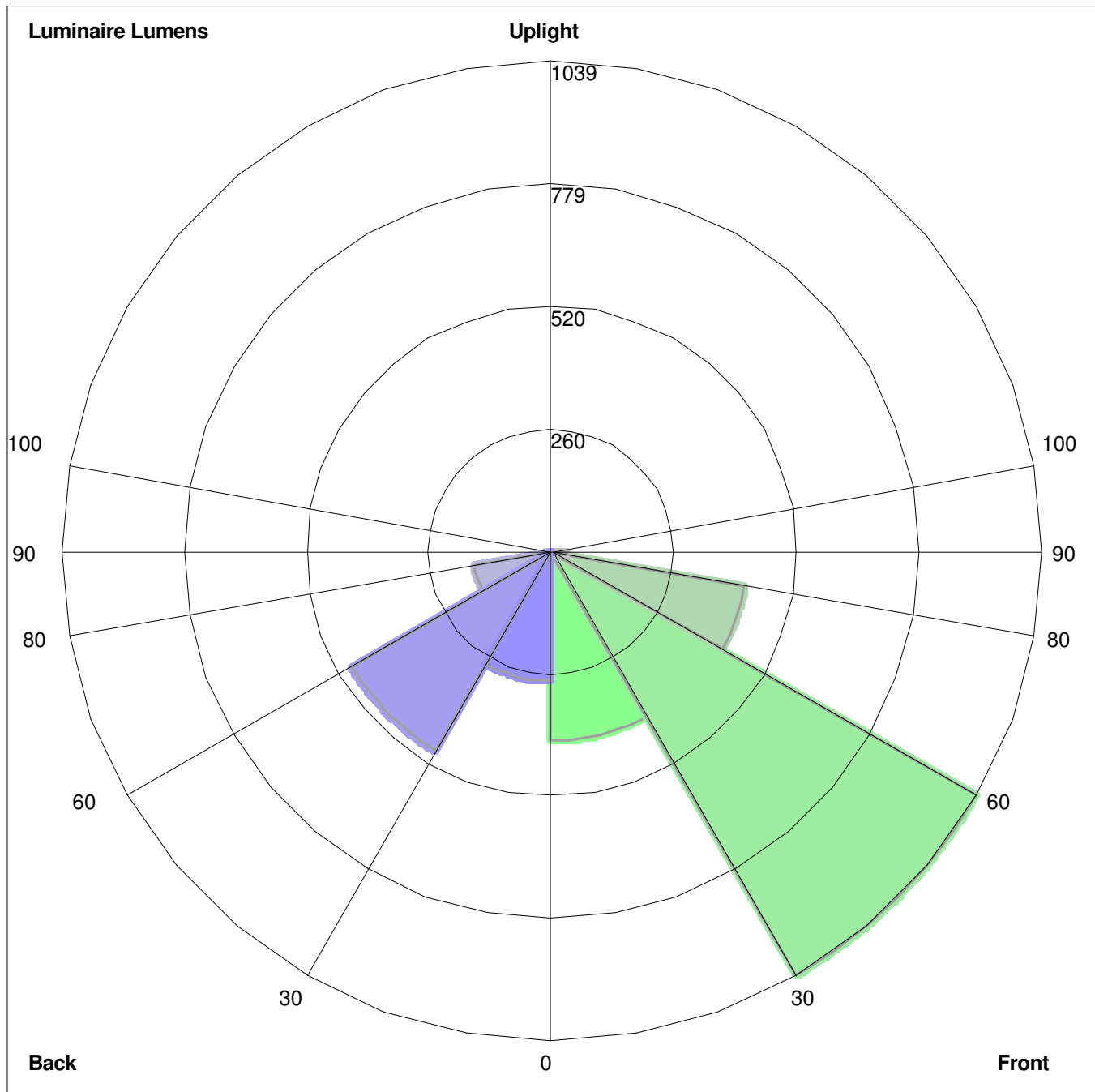


Maximum Candela = 1124.784 Located At Horizontal Angle = 5, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=403.0, Medium=1039.2, High=417.2, Very High=33.6
Back: Low=275.4, Medium=489.9, High=165.8, Very High=10.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1