

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00717 ~ HP1200GV-27L35K-EX.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00717
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 10/1/2018
 [UPDATE] 10/11/2018
 [LUMCAT] HP1200GV-27L-35K-EX
 [LUMINAIRE] Nom. 12" diam. x 12" H, LED Decorative Half Moon luminaire
 [OTHER] Nom. 12" hemispherical, upper housing, opaque
 [OTHER] Nom. 11" hemispherical, lower diffuser, white acrylic
 [LAMPCAT] N/A
 [LAMP] N/A, Gen3
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.985, 27K x 0.971
 [OTHER] This report generated by Spectrum Lighting
 [_CRI]85+
 [_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03
 [_LAMPMULT]15L x 0.573, 27L x 1.00

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.62
Basic Luminous Shape	Sphere
Luminous Length (0-180)	1.00 ft (Diameter)
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.54 ft (Diameter)

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3458	3458	3458
55	3259	3259	3259
65	2993	2993	2993
75	2675	2675	2675
85	2303	2303	2303

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CANDELA TABULATION

	<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	285.153	285.153	285.153	285.153	285.153	285.153	285.153	285.153	285.153	285.153
2.5	285.153	285.153	285.153	285.153	285.153	285.153	285.153	285.153	285.153	285.153
5.0	284.135	284.135	284.135	284.135	284.135	284.135	284.135	284.135	284.135	284.135
7.5	283.102	283.102	283.102	283.102	283.102	283.102	283.102	283.102	283.102	283.102
10.0	280.830	280.830	280.830	280.830	280.830	280.830	280.830	280.830	280.830	280.830
12.5	278.552	278.552	278.552	278.552	278.552	278.552	278.552	278.552	278.552	278.552
15.0	276.021	276.021	276.021	276.021	276.021	276.021	276.021	276.021	276.021	276.021
17.5	273.509	273.509	273.509	273.509	273.509	273.509	273.509	273.509	273.509	273.509
20.0	272.195	272.195	272.195	272.195	272.195	272.195	272.195	272.195	272.195	272.195
22.5	270.878	270.878	270.878	270.878	270.878	270.878	270.878	270.878	270.878	270.878
25.0	269.440	269.440	269.440	269.440	269.440	269.440	269.440	269.440	269.440	269.440
27.5	267.996	267.996	267.996	267.996	267.996	267.996	267.996	267.996	267.996	267.996
30.0	266.386	266.386	266.386	266.386	266.386	266.386	266.386	266.386	266.386	266.386
32.5	264.758	264.758	264.758	264.758	264.758	264.758	264.758	264.758	264.758	264.758
35.0	262.731	262.731	262.731	262.731	262.731	262.731	262.731	262.731	262.731	262.731
37.5	260.669	260.669	260.669	260.669	260.669	260.669	260.669	260.669	260.669	260.669
40.0	258.014	258.014	258.014	258.014	258.014	258.014	258.014	258.014	258.014	258.014
42.5	255.351	255.351	255.351	255.351	255.351	255.351	255.351	255.351	255.351	255.351
45.0	252.565	252.565	252.565	252.565	252.565	252.565	252.565	252.565	252.565	252.565
47.5	249.712	249.712	249.712	249.712	249.712	249.712	249.712	249.712	249.712	249.712
50.0	246.003	246.003	246.003	246.003	246.003	246.003	246.003	246.003	246.003	246.003
52.5	242.254	242.254	242.254	242.254	242.254	242.254	242.254	242.254	242.254	242.254
55.0	238.054	238.054	238.054	238.054	238.054	238.054	238.054	238.054	238.054	238.054
57.5	233.792	233.792	233.792	233.792	233.792	233.792	233.792	233.792	233.792	233.792
60.0	228.915	228.915	228.915	228.915	228.915	228.915	228.915	228.915	228.915	228.915
62.5	223.988	223.988	223.988	223.988	223.988	223.988	223.988	223.988	223.988	223.988
65.0	218.624	218.624	218.624	218.624	218.624	218.624	218.624	218.624	218.624	218.624
67.5	213.217	213.217	213.217	213.217	213.217	213.217	213.217	213.217	213.217	213.217
70.0	207.464	207.464	207.464	207.464	207.464	207.464	207.464	207.464	207.464	207.464
72.5	201.650	201.650	201.650	201.650	201.650	201.650	201.650	201.650	201.650	201.650
75.0	195.385	195.385	195.385	195.385	195.385	195.385	195.385	195.385	195.385	195.385
77.5	189.044	189.044	189.044	189.044	189.044	189.044	189.044	189.044	189.044	189.044
80.0	182.196	182.196	182.196	182.196	182.196	182.196	182.196	182.196	182.196	182.196
82.5	175.311	175.311	175.311	175.311	175.311	175.311	175.311	175.311	175.311	175.311
85.0	168.197	168.197	168.197	168.197	168.197	168.197	168.197	168.197	168.197	168.197
87.5	161.037	161.037	161.037	161.037	161.037	161.037	161.037	161.037	161.037	161.037
90.0	153.615	153.615	153.615	153.615	153.615	153.615	153.615	153.615	153.615	153.615
92.5	146.166	146.166	146.166	146.166	146.166	146.166	146.166	146.166	146.166	146.166
95.0	138.584	138.584	138.584	138.584	138.584	138.584	138.584	138.584	138.584	138.584
97.5	131.040	131.040	131.040	131.040	131.040	131.040	131.040	131.040	131.040	131.040
100.0	123.692	123.692	123.692	123.692	123.692	123.692	123.692	123.692	123.692	123.692
102.5	116.286	116.286	116.286	116.286	116.286	116.286	116.286	116.286	116.286	116.286
105.0	108.608	108.608	108.608	108.608	108.608	108.608	108.608	108.608	108.608	108.608
107.5	100.965	100.965	100.965	100.965	100.965	100.965	100.965	100.965	100.965	100.965
110.0	93.476	93.476	93.476	93.476	93.476	93.476	93.476	93.476	93.476	93.476
112.5	86.012	86.012	86.012	86.012	86.012	86.012	86.012	86.012	86.012	86.012
115.0	78.653	78.653	78.653	78.653	78.653	78.653	78.653	78.653	78.653	78.653
117.5	71.292	71.292	71.292	71.292	71.292	71.292	71.292	71.292	71.292	71.292
120.0	63.917	63.917	63.917	63.917	63.917	63.917	63.917	63.917	63.917	63.917
122.5	56.334	56.334	56.334	56.334	56.334	56.334	56.334	56.334	56.334	56.334
125.0	47.994	47.994	47.994	47.994	47.994	47.994	47.994	47.994	47.994	47.994

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127.5	38.950	38.950	38.950	38.950	38.950	38.950	38.950	38.950	38.950	38.950
130.0	27.488	27.488	27.488	27.488	27.488	27.488	27.488	27.488	27.488	27.488
132.5	17.457	17.457	17.457	17.457	17.457	17.457	17.457	17.457	17.457	17.457
135.0	12.065	12.065	12.065	12.065	12.065	12.065	12.065	12.065	12.065	12.065
137.5	7.451	7.451	7.451	7.451	7.451	7.451	7.451	7.451	7.451	7.451
140.0	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230
142.5	3.312	3.312	3.312	3.312	3.312	3.312	3.312	3.312	3.312	3.312
145.0	2.277	2.277	2.277	2.277	2.277	2.277	2.277	2.277	2.277	2.277
147.5	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454	1.454
150.0	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219
152.5	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
155.0	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961	0.961
157.5	0.909	0.909	0.909	0.909	0.909	0.909	0.909	0.909	0.909	0.909
160.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896
162.5	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882
165.0	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864
167.5	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
170.0	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857
172.5	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
175.0	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883	0.883
177.5	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921
180.0	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798

Vert. 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	285.153	285.153	285.153	285.153	285.153	285.153	285.153
2.5	285.153	285.153	285.153	285.153	285.153	285.153	285.153
5.0	284.135	284.135	284.135	284.135	284.135	284.135	284.135
7.5	283.102	283.102	283.102	283.102	283.102	283.102	283.102
10.0	280.830	280.830	280.830	280.830	280.830	280.830	280.830
12.5	278.552	278.552	278.552	278.552	278.552	278.552	278.552
15.0	276.021	276.021	276.021	276.021	276.021	276.021	276.021
17.5	273.509	273.509	273.509	273.509	273.509	273.509	273.509
20.0	272.195	272.195	272.195	272.195	272.195	272.195	272.195
22.5	270.878	270.878	270.878	270.878	270.878	270.878	270.878
25.0	269.440	269.440	269.440	269.440	269.440	269.440	269.440
27.5	267.996	267.996	267.996	267.996	267.996	267.996	267.996
30.0	266.386	266.386	266.386	266.386	266.386	266.386	266.386
32.5	264.758	264.758	264.758	264.758	264.758	264.758	264.758
35.0	262.731	262.731	262.731	262.731	262.731	262.731	262.731
37.5	260.669	260.669	260.669	260.669	260.669	260.669	260.669
40.0	258.014	258.014	258.014	258.014	258.014	258.014	258.014
42.5	255.351	255.351	255.351	255.351	255.351	255.351	255.351
45.0	252.565	252.565	252.565	252.565	252.565	252.565	252.565
47.5	249.712	249.712	249.712	249.712	249.712	249.712	249.712
50.0	246.003	246.003	246.003	246.003	246.003	246.003	246.003
52.5	242.254	242.254	242.254	242.254	242.254	242.254	242.254
55.0	238.054	238.054	238.054	238.054	238.054	238.054	238.054
57.5	233.792	233.792	233.792	233.792	233.792	233.792	233.792
60.0	228.915	228.915	228.915	228.915	228.915	228.915	228.915
62.5	223.988	223.988	223.988	223.988	223.988	223.988	223.988
65.0	218.624	218.624	218.624	218.624	218.624	218.624	218.624

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CANDELA TABULATION - (Cont.)

67.5	213.217	213.217	213.217	213.217	213.217	213.217	213.217
70.0	207.464	207.464	207.464	207.464	207.464	207.464	207.464
72.5	201.650	201.650	201.650	201.650	201.650	201.650	201.650
75.0	195.385	195.385	195.385	195.385	195.385	195.385	195.385
77.5	189.044	189.044	189.044	189.044	189.044	189.044	189.044
80.0	182.196	182.196	182.196	182.196	182.196	182.196	182.196
82.5	175.311	175.311	175.311	175.311	175.311	175.311	175.311
85.0	168.197	168.197	168.197	168.197	168.197	168.197	168.197
87.5	161.037	161.037	161.037	161.037	161.037	161.037	161.037
90.0	153.615	153.615	153.615	153.615	153.615	153.615	153.615
92.5	146.166	146.166	146.166	146.166	146.166	146.166	146.166
95.0	138.584	138.584	138.584	138.584	138.584	138.584	138.584
97.5	131.040	131.040	131.040	131.040	131.040	131.040	131.040
100.0	123.692	123.692	123.692	123.692	123.692	123.692	123.692
102.5	116.286	116.286	116.286	116.286	116.286	116.286	116.286
105.0	108.608	108.608	108.608	108.608	108.608	108.608	108.608
107.5	100.965	100.965	100.965	100.965	100.965	100.965	100.965
110.0	93.476	93.476	93.476	93.476	93.476	93.476	93.476
112.5	86.012	86.012	86.012	86.012	86.012	86.012	86.012
115.0	78.653	78.653	78.653	78.653	78.653	78.653	78.653
117.5	71.292	71.292	71.292	71.292	71.292	71.292	71.292
120.0	63.917	63.917	63.917	63.917	63.917	63.917	63.917
122.5	56.334	56.334	56.334	56.334	56.334	56.334	56.334
125.0	47.994	47.994	47.994	47.994	47.994	47.994	47.994
127.5	38.950	38.950	38.950	38.950	38.950	38.950	38.950
130.0	27.488	27.488	27.488	27.488	27.488	27.488	27.488
132.5	17.457	17.457	17.457	17.457	17.457	17.457	17.457
135.0	12.065	12.065	12.065	12.065	12.065	12.065	12.065
137.5	7.451	7.451	7.451	7.451	7.451	7.451	7.451
140.0	5.230	5.230	5.230	5.230	5.230	5.230	5.230
142.5	3.312	3.312	3.312	3.312	3.312	3.312	3.312
145.0	2.277	2.277	2.277	2.277	2.277	2.277	2.277
147.5	1.454	1.454	1.454	1.454	1.454	1.454	1.454
150.0	1.219	1.219	1.219	1.219	1.219	1.219	1.219
152.5	1.030	1.030	1.030	1.030	1.030	1.030	1.030
155.0	0.961	0.961	0.961	0.961	0.961	0.961	0.961
157.5	0.909	0.909	0.909	0.909	0.909	0.909	0.909
160.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896
162.5	0.882	0.882	0.882	0.882	0.882	0.882	0.882
165.0	0.864	0.864	0.864	0.864	0.864	0.864	0.864
167.5	0.853	0.853	0.853	0.853	0.853	0.853	0.853
170.0	0.857	0.857	0.857	0.857	0.857	0.857	0.857
172.5	0.866	0.866	0.866	0.866	0.866	0.866	0.866
175.0	0.883	0.883	0.883	0.883	0.883	0.883	0.883
177.5	0.921	0.921	0.921	0.921	0.921	0.921	0.921
180.0	0.798	0.798	0.798	0.798	0.798	0.798	0.798

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	105.18	N.A.	5.80
0-30	229.80	N.A.	12.70
0-40	394.65	N.A.	21.80
0-60	803.29	N.A.	44.40
0-80	1226.48	N.A.	67.80
0-90	1409.86	N.A.	77.90
10-90	1382.83	N.A.	76.40
20-40	289.47	N.A.	16.00
20-50	484.83	N.A.	26.80
40-70	625.39	N.A.	34.50
60-80	423.19	N.A.	23.40
70-80	206.44	N.A.	11.40
80-90	183.38	N.A.	10.10
90-110	266.29	N.A.	14.70
90-120	344.56	N.A.	19.00
90-130	387.25	N.A.	21.40
90-150	399.46	N.A.	22.10
90-180	400.26	N.A.	22.10
110-180	133.97	N.A.	7.40
0-180	1810.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.03
10-20	78.15
20-30	124.62
30-40	164.86
40-50	195.35
50-60	213.28
60-70	216.76
70-80	206.44
80-90	183.38
90-100	151.27
100-110	115.02
110-120	78.27
120-130	42.69
130-140	10.55
140-150	1.66
150-160	0.46
160-170	0.25
170-180	0.08

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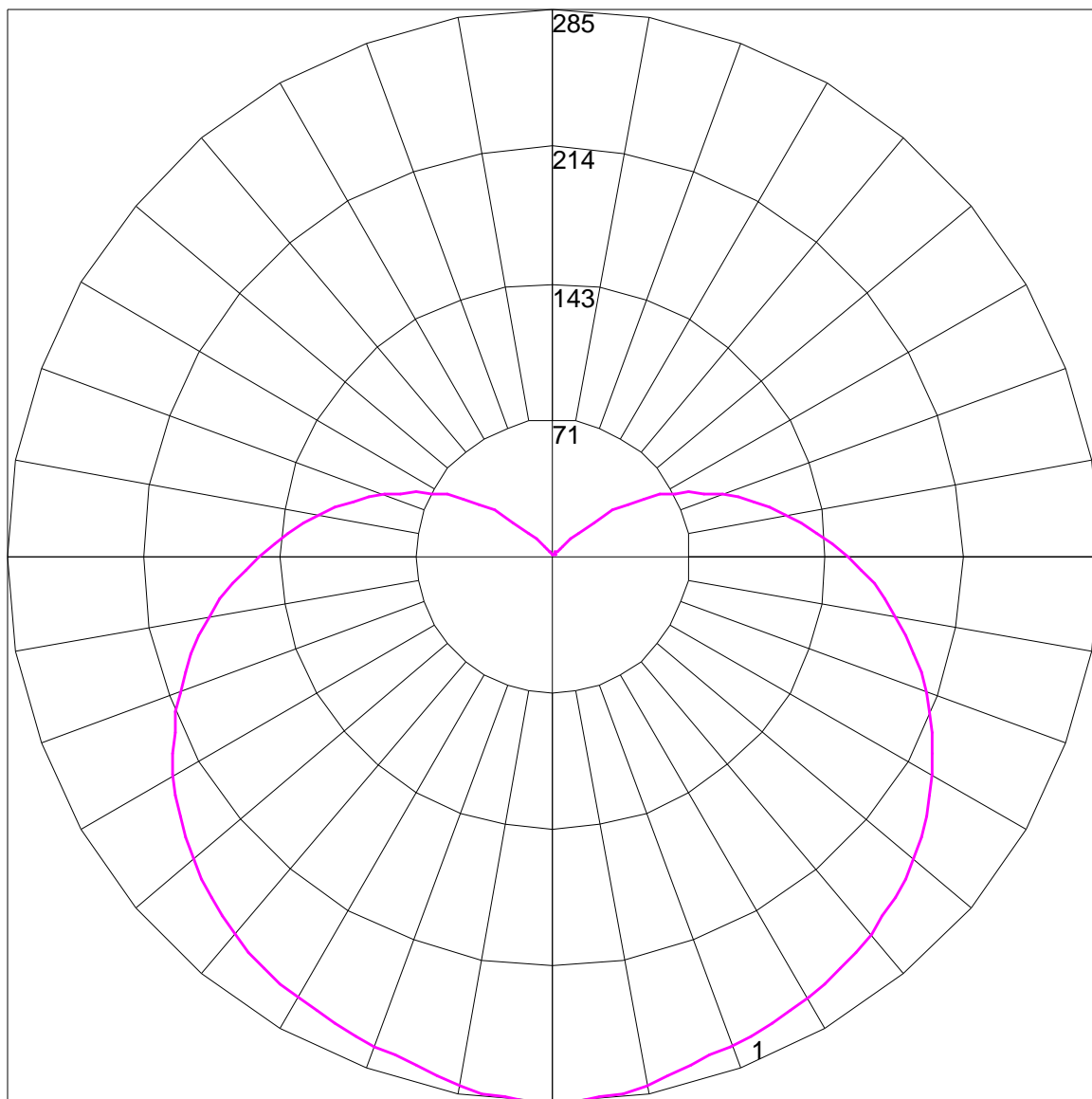
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	99	92	87	81	94	88	83	78	79	75	71	72	68	65	65	62	59	55
2	88	78	70	62	83	74	67	60	67	61	55	60	55	51	54	50	46	43
3	79	67	58	50	75	64	55	48	58	50	44	52	46	41	46	41	37	34
4	72	59	49	41	68	56	47	40	50	43	37	45	39	34	41	35	31	28
5	66	52	42	34	62	49	40	33	44	37	31	40	34	28	36	31	26	23
6	60	46	36	29	57	44	35	28	40	32	26	36	29	24	32	27	23	20
7	56	41	32	26	53	40	31	25	36	28	23	33	26	21	29	24	20	17
8	52	38	29	22	49	36	27	22	33	25	20	30	23	19	27	21	17	15
9	48	34	26	20	46	33	25	19	30	23	18	27	21	17	25	19	15	13
10	45	31	23	18	43	30	22	17	28	21	16	25	19	15	23	18	14	12

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POLAR GRAPH



Maximum Candela = 285.153 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)