

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00717 ~ HP1200GV-15L35K-EX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00717_M-15L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 10/1/2018

[UPDATE] 10/11/2018

[LUMCAT] HP1200GV-15L-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, scaled from 27L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	10
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	1982	1982	1982
55	1868	1868	1868
65	1715	1715	1715
75	1533	1533	1533
85	1320	1320	1320

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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	163.393	163.393	163.393	163.393	163.393	163.393	163.393	163.393	163.393	163.393
2.5	163.393	163.393	163.393	163.393	163.393	163.393	163.393	163.393	163.393	163.393
5.0	162.809	162.809	162.809	162.809	162.809	162.809	162.809	162.809	162.809	162.809
7.5	162.217	162.217	162.217	162.217	162.217	162.217	162.217	162.217	162.217	162.217
10.0	160.916	160.916	160.916	160.916	160.916	160.916	160.916	160.916	160.916	160.916
12.5	159.610	159.610	159.610	159.610	159.610	159.610	159.610	159.610	159.610	159.610
15.0	158.160	158.160	158.160	158.160	158.160	158.160	158.160	158.160	158.160	158.160
17.5	156.721	156.721	156.721	156.721	156.721	156.721	156.721	156.721	156.721	156.721
20.0	155.968	155.968	155.968	155.968	155.968	155.968	155.968	155.968	155.968	155.968
22.5	155.213	155.213	155.213	155.213	155.213	155.213	155.213	155.213	155.213	155.213
25.0	154.389	154.389	154.389	154.389	154.389	154.389	154.389	154.389	154.389	154.389
27.5	153.562	153.562	153.562	153.562	153.562	153.562	153.562	153.562	153.562	153.562
30.0	152.639	152.639	152.639	152.639	152.639	152.639	152.639	152.639	152.639	152.639
32.5	151.706	151.706	151.706	151.706	151.706	151.706	151.706	151.706	151.706	151.706
35.0	150.545	150.545	150.545	150.545	150.545	150.545	150.545	150.545	150.545	150.545
37.5	149.363	149.363	149.363	149.363	149.363	149.363	149.363	149.363	149.363	149.363
40.0	147.842	147.842	147.842	147.842	147.842	147.842	147.842	147.842	147.842	147.842
42.5	146.316	146.316	146.316	146.316	146.316	146.316	146.316	146.316	146.316	146.316
45.0	144.720	144.720	144.720	144.720	144.720	144.720	144.720	144.720	144.720	144.720
47.5	143.085	143.085	143.085	143.085	143.085	143.085	143.085	143.085	143.085	143.085
50.0	140.960	140.960	140.960	140.960	140.960	140.960	140.960	140.960	140.960	140.960
52.5	138.812	138.812	138.812	138.812	138.812	138.812	138.812	138.812	138.812	138.812
55.0	136.405	136.405	136.405	136.405	136.405	136.405	136.405	136.405	136.405	136.405
57.5	133.963	133.963	133.963	133.963	133.963	133.963	133.963	133.963	133.963	133.963
60.0	131.168	131.168	131.168	131.168	131.168	131.168	131.168	131.168	131.168	131.168
62.5	128.345	128.345	128.345	128.345	128.345	128.345	128.345	128.345	128.345	128.345
65.0	125.272	125.272	125.272	125.272	125.272	125.272	125.272	125.272	125.272	125.272
67.5	122.173	122.173	122.173	122.173	122.173	122.173	122.173	122.173	122.173	122.173
70.0	118.877	118.877	118.877	118.877	118.877	118.877	118.877	118.877	118.877	118.877
72.5	115.545	115.545	115.545	115.545	115.545	115.545	115.545	115.545	115.545	115.545
75.0	111.956	111.956	111.956	111.956	111.956	111.956	111.956	111.956	111.956	111.956
77.5	108.322	108.322	108.322	108.322	108.322	108.322	108.322	108.322	108.322	108.322
80.0	104.398	104.398	104.398	104.398	104.398	104.398	104.398	104.398	104.398	104.398
82.5	100.453	100.453	100.453	100.453	100.453	100.453	100.453	100.453	100.453	100.453
85.0	96.377	96.377	96.377	96.377	96.377	96.377	96.377	96.377	96.377	96.377
87.5	92.274	92.274	92.274	92.274	92.274	92.274	92.274	92.274	92.274	92.274
90.0	88.021	88.021	88.021	88.021	88.021	88.021	88.021	88.021	88.021	88.021
92.5	83.753	83.753	83.753	83.753	83.753	83.753	83.753	83.753	83.753	83.753
95.0	79.409	79.409	79.409	79.409	79.409	79.409	79.409	79.409	79.409	79.409
97.5	75.086	75.086	75.086	75.086	75.086	75.086	75.086	75.086	75.086	75.086
100.0	70.876	70.876	70.876	70.876	70.876	70.876	70.876	70.876	70.876	70.876
102.5	66.632	66.632	66.632	66.632	66.632	66.632	66.632	66.632	66.632	66.632
105.0	62.232	62.232	62.232	62.232	62.232	62.232	62.232	62.232	62.232	62.232
107.5	57.853	57.853	57.853	57.853	57.853	57.853	57.853	57.853	57.853	57.853
110.0	53.562	53.562	53.562	53.562	53.562	53.562	53.562	53.562	53.562	53.562
112.5	49.285	49.285	49.285	49.285	49.285	49.285	49.285	49.285	49.285	49.285
115.0	45.068	45.068	45.068	45.068	45.068	45.068	45.068	45.068	45.068	45.068
117.5	40.850	40.850	40.850	40.850	40.850	40.850	40.850	40.850	40.850	40.850
120.0	36.624	36.624	36.624	36.624	36.624	36.624	36.624	36.624	36.624	36.624
122.5	32.279	32.279	32.279	32.279	32.279	32.279	32.279	32.279	32.279	32.279
125.0	27.501	27.501	27.501	27.501	27.501	27.501	27.501	27.501	27.501	27.501

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127.5	22.318	22.318	22.318	22.318	22.318	22.318	22.318	22.318	22.318	22.318
130.0	15.751	15.751	15.751	15.751	15.751	15.751	15.751	15.751	15.751	15.751
132.5	10.003	10.003	10.003	10.003	10.003	10.003	10.003	10.003	10.003	10.003
135.0	6.913	6.913	6.913	6.913	6.913	6.913	6.913	6.913	6.913	6.913
137.5	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269
140.0	2.997	2.997	2.997	2.997	2.997	2.997	2.997	2.997	2.997	2.997
142.5	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898	1.898
145.0	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305
147.5	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833
150.0	0.698	0.698	0.698	0.698	0.698	0.698	0.698	0.698	0.698	0.698
152.5	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
155.0	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551
157.5	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
160.0	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513
162.5	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505
165.0	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495
167.5	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489
170.0	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
172.5	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496
175.0	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
177.5	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
180.0	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457

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	163.393	163.393	163.393	163.393	163.393	163.393	163.393
2.5	163.393	163.393	163.393	163.393	163.393	163.393	163.393
5.0	162.809	162.809	162.809	162.809	162.809	162.809	162.809
7.5	162.217	162.217	162.217	162.217	162.217	162.217	162.217
10.0	160.916	160.916	160.916	160.916	160.916	160.916	160.916
12.5	159.610	159.610	159.610	159.610	159.610	159.610	159.610
15.0	158.160	158.160	158.160	158.160	158.160	158.160	158.160
17.5	156.721	156.721	156.721	156.721	156.721	156.721	156.721
20.0	155.968	155.968	155.968	155.968	155.968	155.968	155.968
22.5	155.213	155.213	155.213	155.213	155.213	155.213	155.213
25.0	154.389	154.389	154.389	154.389	154.389	154.389	154.389
27.5	153.562	153.562	153.562	153.562	153.562	153.562	153.562
30.0	152.639	152.639	152.639	152.639	152.639	152.639	152.639
32.5	151.706	151.706	151.706	151.706	151.706	151.706	151.706
35.0	150.545	150.545	150.545	150.545	150.545	150.545	150.545
37.5	149.363	149.363	149.363	149.363	149.363	149.363	149.363
40.0	147.842	147.842	147.842	147.842	147.842	147.842	147.842
42.5	146.316	146.316	146.316	146.316	146.316	146.316	146.316
45.0	144.720	144.720	144.720	144.720	144.720	144.720	144.720
47.5	143.085	143.085	143.085	143.085	143.085	143.085	143.085
50.0	140.960	140.960	140.960	140.960	140.960	140.960	140.960
52.5	138.812	138.812	138.812	138.812	138.812	138.812	138.812
55.0	136.405	136.405	136.405	136.405	136.405	136.405	136.405
57.5	133.963	133.963	133.963	133.963	133.963	133.963	133.963
60.0	131.168	131.168	131.168	131.168	131.168	131.168	131.168
62.5	128.345	128.345	128.345	128.345	128.345	128.345	128.345
65.0	125.272	125.272	125.272	125.272	125.272	125.272	125.272

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CANDELA TABULATION - (Cont.)

67.5	122.173	122.173	122.173	122.173	122.173	122.173	122.173
70.0	118.877	118.877	118.877	118.877	118.877	118.877	118.877
72.5	115.545	115.545	115.545	115.545	115.545	115.545	115.545
75.0	111.956	111.956	111.956	111.956	111.956	111.956	111.956
77.5	108.322	108.322	108.322	108.322	108.322	108.322	108.322
80.0	104.398	104.398	104.398	104.398	104.398	104.398	104.398
82.5	100.453	100.453	100.453	100.453	100.453	100.453	100.453
85.0	96.377	96.377	96.377	96.377	96.377	96.377	96.377
87.5	92.274	92.274	92.274	92.274	92.274	92.274	92.274
90.0	88.021	88.021	88.021	88.021	88.021	88.021	88.021
92.5	83.753	83.753	83.753	83.753	83.753	83.753	83.753
95.0	79.409	79.409	79.409	79.409	79.409	79.409	79.409
97.5	75.086	75.086	75.086	75.086	75.086	75.086	75.086
100.0	70.876	70.876	70.876	70.876	70.876	70.876	70.876
102.5	66.632	66.632	66.632	66.632	66.632	66.632	66.632
105.0	62.232	62.232	62.232	62.232	62.232	62.232	62.232
107.5	57.853	57.853	57.853	57.853	57.853	57.853	57.853
110.0	53.562	53.562	53.562	53.562	53.562	53.562	53.562
112.5	49.285	49.285	49.285	49.285	49.285	49.285	49.285
115.0	45.068	45.068	45.068	45.068	45.068	45.068	45.068
117.5	40.850	40.850	40.850	40.850	40.850	40.850	40.850
120.0	36.624	36.624	36.624	36.624	36.624	36.624	36.624
122.5	32.279	32.279	32.279	32.279	32.279	32.279	32.279
125.0	27.501	27.501	27.501	27.501	27.501	27.501	27.501
127.5	22.318	22.318	22.318	22.318	22.318	22.318	22.318
130.0	15.751	15.751	15.751	15.751	15.751	15.751	15.751
132.5	10.003	10.003	10.003	10.003	10.003	10.003	10.003
135.0	6.913	6.913	6.913	6.913	6.913	6.913	6.913
137.5	4.269	4.269	4.269	4.269	4.269	4.269	4.269
140.0	2.997	2.997	2.997	2.997	2.997	2.997	2.997
142.5	1.898	1.898	1.898	1.898	1.898	1.898	1.898
145.0	1.305	1.305	1.305	1.305	1.305	1.305	1.305
147.5	0.833	0.833	0.833	0.833	0.833	0.833	0.833
150.0	0.698	0.698	0.698	0.698	0.698	0.698	0.698
152.5	0.590	0.590	0.590	0.590	0.590	0.590	0.590
155.0	0.551	0.551	0.551	0.551	0.551	0.551	0.551
157.5	0.521	0.521	0.521	0.521	0.521	0.521	0.521
160.0	0.513	0.513	0.513	0.513	0.513	0.513	0.513
162.5	0.505	0.505	0.505	0.505	0.505	0.505	0.505
165.0	0.495	0.495	0.495	0.495	0.495	0.495	0.495
167.5	0.489	0.489	0.489	0.489	0.489	0.489	0.489
170.0	0.491	0.491	0.491	0.491	0.491	0.491	0.491
172.5	0.496	0.496	0.496	0.496	0.496	0.496	0.496
175.0	0.506	0.506	0.506	0.506	0.506	0.506	0.506
177.5	0.528	0.528	0.528	0.528	0.528	0.528	0.528
180.0	0.457	0.457	0.457	0.457	0.457	0.457	0.457

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	60.27	N.A.	5.80
0-30	131.67	N.A.	12.70
0-40	226.14	N.A.	21.80
0-60	460.28	N.A.	44.40
0-80	702.77	N.A.	67.80
0-90	807.85	N.A.	77.90
10-90	792.36	N.A.	76.40
20-40	165.87	N.A.	16.00
20-50	277.81	N.A.	26.80
40-70	358.35	N.A.	34.50
60-80	242.49	N.A.	23.40
70-80	118.29	N.A.	11.40
80-90	105.08	N.A.	10.10
90-110	152.58	N.A.	14.70
90-120	197.43	N.A.	19.00
90-130	221.90	N.A.	21.40
90-150	228.89	N.A.	22.10
90-180	229.35	N.A.	22.10
110-180	76.76	N.A.	7.40
0-180	1037.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.49
10-20	44.78
20-30	71.41
30-40	94.46
40-50	111.94
50-60	122.21
60-70	124.20
70-80	118.29
80-90	105.08
90-100	86.68
100-110	65.91
110-120	44.85
120-130	24.46
130-140	6.05
140-150	0.95
150-160	0.26
160-170	0.14
170-180	0.05

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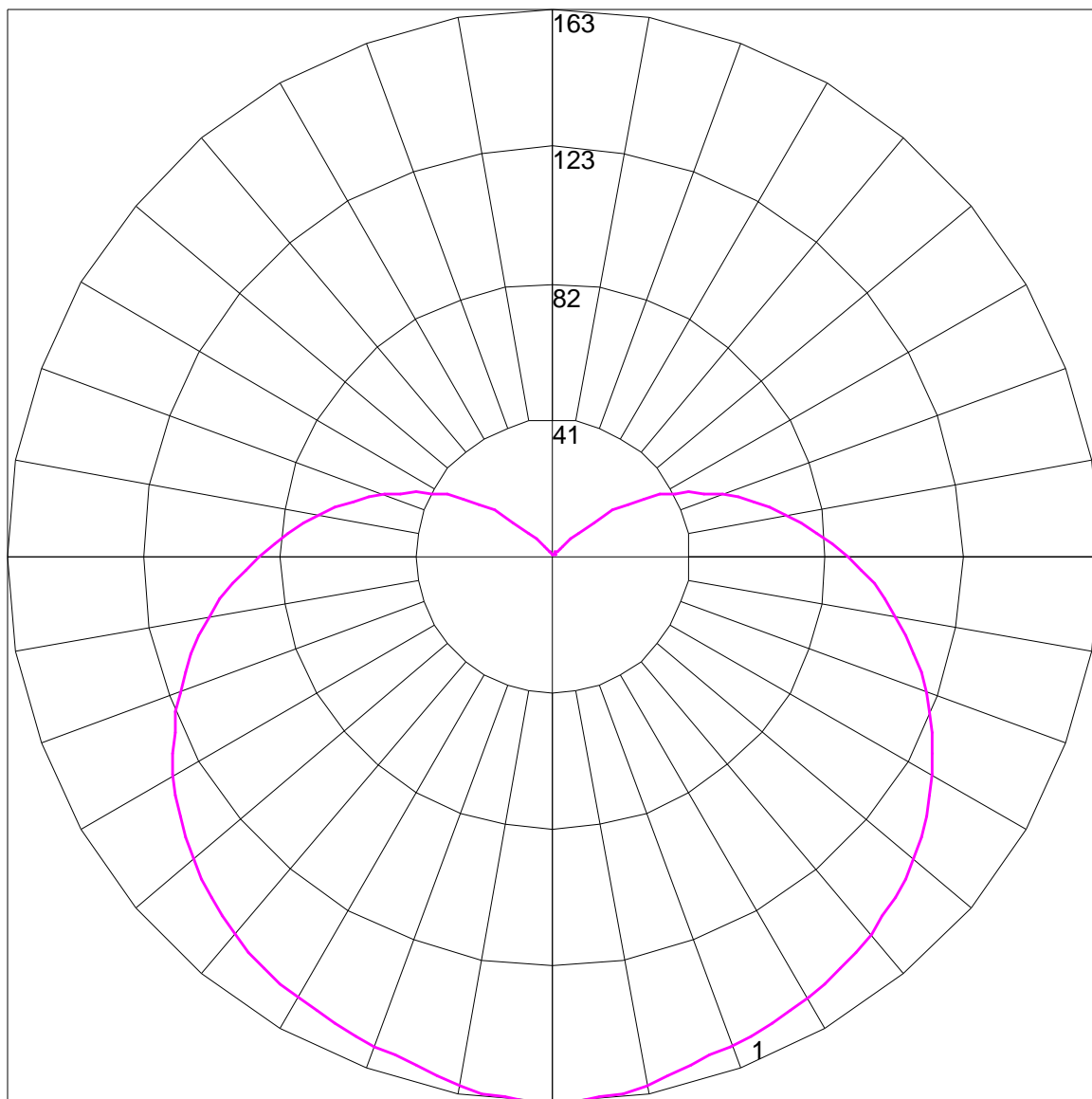
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	63	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	45	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 = 163.393 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)