

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATXAL12LEDGV-27L35KEX-XX-AL12-CFG-XX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.3.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Apr 16 2018

[UPDATE] Apr 17 2018

[TEST] SP-00456_6_M-27L

[MANUFAC] Spectrum Lighting

[LUMCAT] ATXAL12LEDGV-27L-35K-EX-xx-AL12-CFG-xx

[LUMINAIRE] Nom. 12" Diam. LED Tech Pendant, Spun Aluminum Reflector

[OTHER] Inside of Reflector, Matte White Powder Coat Finish

[OTHER] Outer finish will not affect photometric data

[OTHER] (4) Chrome plated steel arms, support decorative element

[OTHER] Nom. 15" Diam. Sodalime Glass disc, with 12.5" Diam. Frosted Center Pattern

[OTHER] Nom. 77 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] CCT: 3500K, Gen3

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 50K x 1.06, 40K X 1.03, 30K X 0.985, 27K X 0.971

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATXAL12LEDGV-27L35KEX-XX-AL12-CFG-XX.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3064	3055	3079
55	2508	2561	2492
65	2155	2127	2159
75	2010	1888	1975
85	2750	2772	2750

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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	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269
2.5	1204.482	1200.152	1200.383	1199.522	1204.626	1199.522	1200.383	1200.152	1204.482	1200.152
5.0	1188.695	1180.034	1180.497	1178.775	1188.982	1178.775	1180.497	1180.034	1188.695	1180.034
7.5	1137.292	1124.162	1127.738	1127.352	1132.717	1127.352	1127.738	1124.162	1137.292	1124.162
10.0	1085.889	1068.290	1074.979	1075.928	1076.451	1075.928	1074.979	1068.290	1085.889	1068.290
12.5	1002.132	992.921	994.030	995.360	990.359	995.360	994.030	992.921	1002.132	992.921
15.0	918.375	917.551	913.080	914.792	904.266	914.792	913.080	917.551	918.375	917.551
17.5	920.266	917.922	917.788	915.223	913.459	915.223	917.788	917.922	920.266	917.922
20.0	922.157	918.292	922.495	915.653	922.652	915.653	922.495	918.292	922.157	918.292
22.5	962.571	965.029	961.397	959.904	965.253	959.904	961.397	965.029	962.571	965.029
25.0	1002.984	1011.765	1000.299	1004.155	1007.854	1004.155	1000.299	1011.765	1002.984	1011.765
27.5	1023.734	1022.097	1018.383	1022.169	1019.556	1022.169	1018.383	1022.097	1023.734	1022.097
30.0	1044.483	1032.429	1036.466	1040.183	1031.258	1040.183	1036.466	1032.429	1044.483	1032.429
32.5	948.415	947.152	945.194	952.734	943.661	952.734	945.194	947.152	948.415	947.152
35.0	852.347	861.874	853.921	865.285	856.064	865.285	853.921	861.874	852.347	861.874
37.5	680.111	685.322	681.269	688.819	682.141	688.819	681.269	685.322	680.111	685.322
40.0	507.875	508.769	508.616	512.352	508.218	512.352	508.616	508.769	507.875	508.769
42.5	377.569	377.794	377.585	379.555	378.328	379.555	377.585	377.794	377.569	377.794
45.0	247.263	246.818	246.554	246.758	248.438	246.758	246.554	246.818	247.263	246.818
47.5	222.591	222.294	221.623	221.882	222.822	221.882	221.623	222.294	222.591	222.294
50.0	197.918	197.769	196.691	197.006	197.205	197.006	196.691	197.769	197.918	197.769
52.5	181.024	182.591	182.163	181.661	180.161	181.661	182.163	182.591	181.024	182.591
55.0	164.130	167.412	167.635	166.315	163.117	166.315	167.635	167.412	164.130	167.412
57.5	149.109	150.542	151.183	150.259	147.047	150.259	151.183	150.542	149.109	150.542
60.0	134.088	133.672	134.732	134.204	130.978	134.204	134.732	133.672	134.088	133.672
62.5	119.005	118.019	118.656	119.276	117.554	119.276	118.656	118.019	119.005	118.019
65.0	103.921	102.366	102.579	104.347	104.129	104.347	102.579	102.366	103.921	102.366
67.5	90.169	88.817	90.014	90.199	90.233	90.199	90.014	88.817	90.169	88.817
70.0	76.416	75.268	77.448	76.050	76.337	76.050	77.448	75.268	76.416	75.268
72.5	67.887	65.816	66.600	66.702	67.331	66.702	66.600	65.816	67.887	65.816
75.0	59.358	56.363	55.752	57.353	58.325	57.353	55.752	56.363	59.358	56.363
77.5	49.975	48.186	48.237	49.012	49.836	49.012	48.237	48.186	49.975	48.186
80.0	40.592	40.008	40.721	40.670	41.346	40.670	40.721	40.008	40.592	40.008
82.5	33.973	33.248	34.146	33.745	34.350	33.745	34.146	33.248	33.973	33.248
85.0	27.353	26.487	27.570	26.820	27.353	26.820	27.570	26.487	27.353	26.487
87.5	17.540	17.292	17.787	17.167	17.676	17.167	17.787	17.292	17.540	17.292
90.0	7.726	8.096	8.004	7.513	7.999	7.513	8.004	8.096	7.726	8.096

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>
0.0	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269	1220.269
2.5	1200.383	1199.522	1204.626	1199.522	1200.383	1200.152	1204.482
5.0	1180.497	1178.775	1188.982	1178.775	1180.497	1180.034	1188.695
7.5	1127.738	1127.352	1132.717	1127.352	1127.738	1124.162	1137.292
10.0	1074.979	1075.928	1076.451	1075.928	1074.979	1068.290	1085.889
12.5	994.030	995.360	990.359	995.360	994.030	992.921	1002.132
15.0	913.080	914.792	904.266	914.792	913.080	917.551	918.375
17.5	917.788	915.223	913.459	915.223	917.788	917.922	920.266
20.0	922.495	915.653	922.652	915.653	922.495	918.292	922.157
22.5	961.397	959.904	965.253	959.904	961.397	965.029	962.571
25.0	1000.299	1004.155	1007.854	1004.155	1000.299	1011.765	1002.984
27.5	1018.383	1022.169	1019.556	1022.169	1018.383	1022.097	1023.734
30.0	1036.466	1040.183	1031.258	1040.183	1036.466	1032.429	1044.483

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32.5	945.194	952.734	943.661	952.734	945.194	947.152	948.415
35.0	853.921	865.285	856.064	865.285	853.921	861.874	852.347
37.5	681.269	688.819	682.141	688.819	681.269	685.322	680.111
40.0	508.616	512.352	508.218	512.352	508.616	508.769	507.875
42.5	377.585	379.555	378.328	379.555	377.585	377.794	377.569
45.0	246.554	246.758	248.438	246.758	246.554	246.818	247.263
47.5	221.623	221.882	222.822	221.882	221.623	222.294	222.591
50.0	196.691	197.006	197.205	197.006	196.691	197.769	197.918
52.5	182.163	181.661	180.161	181.661	182.163	182.591	181.024
55.0	167.635	166.315	163.117	166.315	167.635	167.412	164.130
57.5	151.183	150.259	147.047	150.259	151.183	150.542	149.109
60.0	134.732	134.204	130.978	134.204	134.732	133.672	134.088
62.5	118.656	119.276	117.554	119.276	118.656	118.019	119.005
65.0	102.579	104.347	104.129	104.347	102.579	102.366	103.921
67.5	90.014	90.199	90.233	90.199	90.014	88.817	90.169
70.0	77.448	76.050	76.337	76.050	77.448	75.268	76.416
72.5	66.600	66.702	67.331	66.702	66.600	65.816	67.887
75.0	55.752	57.353	58.325	57.353	55.752	56.363	59.358
77.5	48.237	49.012	49.836	49.012	48.237	48.186	49.975
80.0	40.721	40.670	41.346	40.670	40.721	40.008	40.592
82.5	34.146	33.745	34.350	33.745	34.146	33.248	33.973
85.0	27.570	26.820	27.353	26.820	27.570	26.487	27.353
87.5	17.787	17.167	17.676	17.167	17.787	17.292	17.540
90.0	8.004	7.513	7.999	7.513	8.004	8.096	7.726

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Zone	Lumens	%Lamp	%Fixt
0-20	377.72	N.A.	19.70
0-30	838.38	N.A.	43.80
0-40	1344.53	N.A.	70.30
0-60	1721.96	N.A.	90.00
0-80	1885.97	N.A.	98.50
0-90	1913.91	N.A.	100.00
10-90	1804.88	N.A.	94.30
20-40	966.81	N.A.	50.50
20-50	1195.96	N.A.	62.50
40-70	480.48	N.A.	25.10
60-80	164.01	N.A.	8.60
70-80	60.96	N.A.	3.20
80-90	27.94	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1913.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.03
10-20	268.69
20-30	460.66
30-40	506.14
40-50	229.15
50-60	148.28
60-70	103.05
70-80	60.96
80-90	27.94
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

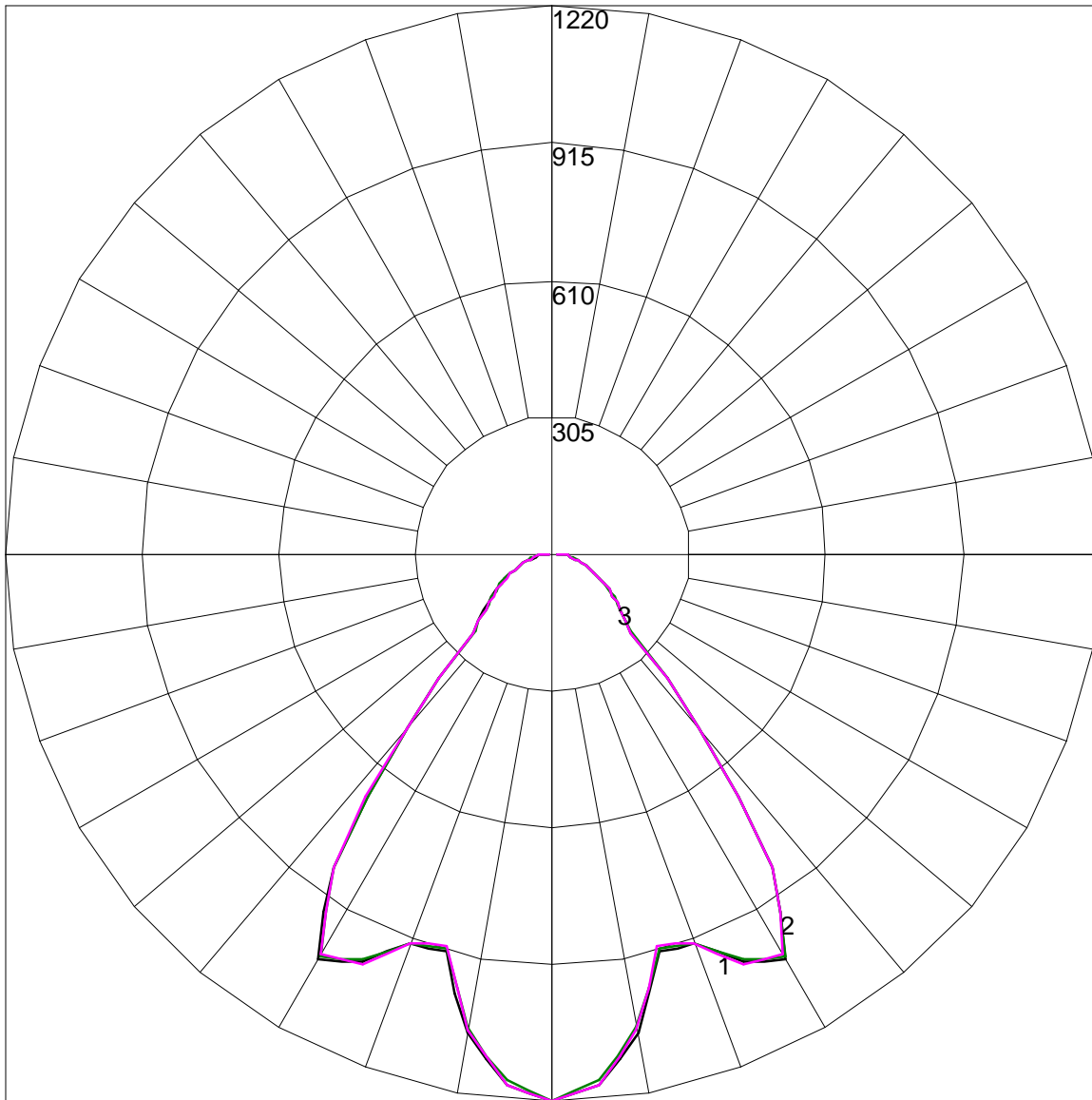
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

POLAR GRAPH



Maximum Candela = 1220.269 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)