

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATXAL12LEDGV-15L35KEX-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-15L

[MANUFAC] Spectrum Lighting

[LUMCAT] ATXAL12LEDGV-15L-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	1096
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	10
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-15L35KEX-XX-AL12-CFG-XX.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1756	1751	1764
55	1437	1467	1428
65	1235	1219	1237
75	1151	1081	1131
85	1576	1588	1576

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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	699.104	699.104	699.104	699.104	699.104	699.104	699.104	699.104	699.104	699.104
2.5	690.060	687.579	687.711	687.218	690.142	687.218	687.711	687.579	690.060	687.579
5.0	681.015	676.053	676.318	675.332	681.179	675.332	676.318	676.053	681.015	676.053
7.5	651.566	644.044	646.092	645.871	648.944	645.871	646.092	644.044	651.566	644.044
10.0	622.117	612.034	615.866	616.410	616.709	616.410	615.866	612.034	622.117	612.034
12.5	574.132	568.854	569.489	570.252	567.386	570.252	569.489	568.854	574.132	568.854
15.0	526.146	525.674	523.112	524.094	518.063	524.094	523.112	525.674	526.146	525.674
17.5	527.230	525.886	525.809	524.341	523.330	524.341	525.809	525.886	527.230	525.886
20.0	528.313	526.098	528.506	524.587	528.597	524.587	528.506	526.098	528.313	526.098
22.5	551.466	552.874	550.794	549.939	553.003	549.939	550.794	552.874	551.466	552.874
25.0	574.619	579.650	573.081	575.290	577.409	575.290	573.081	579.650	574.619	579.650
27.5	586.507	585.570	583.441	585.611	584.114	585.611	583.441	585.570	586.507	585.570
30.0	598.395	591.489	593.801	595.931	590.818	595.931	593.801	591.489	598.395	591.489
32.5	543.357	542.633	541.511	545.831	540.633	545.831	541.511	542.633	543.357	542.633
35.0	488.318	493.776	489.220	495.730	490.448	495.730	489.220	493.776	488.318	493.776
37.5	389.643	392.628	390.306	394.631	390.806	394.631	390.306	392.628	389.643	392.628
40.0	290.967	291.479	291.391	293.531	291.163	293.531	291.391	291.479	290.967	291.479
42.5	216.313	216.442	216.322	217.451	216.748	217.451	216.322	216.442	216.313	216.442
45.0	141.659	141.405	141.253	141.370	142.333	141.370	141.253	141.405	141.659	141.405
47.5	127.524	127.355	126.970	127.118	127.657	127.118	126.970	127.355	127.524	127.355
50.0	113.389	113.304	112.686	112.866	112.980	112.866	112.686	113.304	113.389	113.304
52.5	103.711	104.608	104.363	104.075	103.216	104.075	104.363	104.608	103.711	104.608
55.0	94.032	95.912	96.040	95.284	93.451	95.284	96.040	95.912	94.032	95.912
57.5	85.426	86.247	86.614	86.085	84.244	86.085	86.614	86.247	85.426	86.247
60.0	76.820	76.582	77.189	76.887	75.038	76.887	77.189	76.582	76.820	76.582
62.5	68.179	67.614	67.979	68.334	67.348	68.334	67.979	67.614	68.179	67.614
65.0	59.537	58.646	58.768	59.781	59.657	59.781	58.768	58.646	59.537	58.646
67.5	51.658	50.884	51.570	51.676	51.696	51.676	51.570	50.884	51.658	50.884
70.0	43.779	43.122	44.371	43.570	43.734	43.570	44.371	43.122	43.779	43.122
72.5	38.893	37.707	38.156	38.214	38.575	38.214	38.156	37.707	38.893	37.707
75.0	34.007	32.291	31.941	32.858	33.415	32.858	31.941	32.291	34.007	32.291
77.5	28.631	27.606	27.636	28.079	28.552	28.079	27.636	27.606	28.631	27.606
80.0	23.255	22.921	23.330	23.300	23.688	23.300	23.330	22.921	23.255	22.921
82.5	19.463	19.048	19.563	19.333	19.680	19.333	19.563	19.048	19.463	19.048
85.0	15.671	15.175	15.795	15.366	15.671	15.366	15.795	15.175	15.671	15.175
87.5	10.049	9.907	10.190	9.835	10.127	9.835	10.190	9.907	10.049	9.907
90.0	4.426	4.638	4.585	4.304	4.583	4.304	4.585	4.638	4.426	4.638

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	699.104	699.104	699.104	699.104	699.104	699.104	699.104
2.5	687.711	687.218	690.142	687.218	687.711	687.579	690.060
5.0	676.318	675.332	681.179	675.332	676.318	676.053	681.015
7.5	646.092	645.871	648.944	645.871	646.092	644.044	651.566
10.0	615.866	616.410	616.709	616.410	615.866	612.034	622.117
12.5	569.489	570.252	567.386	570.252	569.489	568.854	574.132
15.0	523.112	524.094	518.063	524.094	523.112	525.674	526.146
17.5	525.809	524.341	523.330	524.341	525.809	525.886	527.230
20.0	528.506	524.587	528.597	524.587	528.506	526.098	528.313
22.5	550.794	549.939	553.003	549.939	550.794	552.874	551.466
25.0	573.081	575.290	577.409	575.290	573.081	579.650	574.619
27.5	583.441	585.611	584.114	585.611	583.441	585.570	586.507
30.0	593.801	595.931	590.818	595.931	593.801	591.489	598.395

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32.5	541.511	545.831	540.633	545.831	541.511	542.633	543.357
35.0	489.220	495.730	490.448	495.730	489.220	493.776	488.318
37.5	390.306	394.631	390.806	394.631	390.306	392.628	389.643
40.0	291.391	293.531	291.163	293.531	291.391	291.479	290.967
42.5	216.322	217.451	216.748	217.451	216.322	216.442	216.313
45.0	141.253	141.370	142.333	141.370	141.253	141.405	141.659
47.5	126.970	127.118	127.657	127.118	126.970	127.355	127.524
50.0	112.686	112.866	112.980	112.866	112.686	113.304	113.389
52.5	104.363	104.075	103.216	104.075	104.363	104.608	103.711
55.0	96.040	95.284	93.451	95.284	96.040	95.912	94.032
57.5	86.614	86.085	84.244	86.085	86.614	86.247	85.426
60.0	77.189	76.887	75.038	76.887	77.189	76.582	76.820
62.5	67.979	68.334	67.348	68.334	67.979	67.614	68.179
65.0	58.768	59.781	59.657	59.781	58.768	58.646	59.537
67.5	51.570	51.676	51.696	51.676	51.570	50.884	51.658
70.0	44.371	43.570	43.734	43.570	44.371	43.122	43.779
72.5	38.156	38.214	38.575	38.214	38.156	37.707	38.893
75.0	31.941	32.858	33.415	32.858	31.941	32.291	34.007
77.5	27.636	28.079	28.552	28.079	27.636	27.606	28.631
80.0	23.330	23.300	23.688	23.300	23.330	22.921	23.255
82.5	19.563	19.333	19.680	19.333	19.563	19.048	19.463
85.0	15.795	15.366	15.671	15.366	15.795	15.175	15.671
87.5	10.190	9.835	10.127	9.835	10.190	9.907	10.049
90.0	4.585	4.304	4.583	4.304	4.585	4.638	4.426

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Zone	Lumens	%Lamp	%Fixt
0-20	216.40	N.A.	19.70
0-30	480.32	N.A.	43.80
0-40	770.29	N.A.	70.30
0-60	986.53	N.A.	90.00
0-80	1080.49	N.A.	98.50
0-90	1096.5	N.A.	100.00
10-90	1034.03	N.A.	94.30
20-40	553.89	N.A.	50.50
20-50	685.18	N.A.	62.50
40-70	275.27	N.A.	25.10
60-80	93.97	N.A.	8.60
70-80	34.93	N.A.	3.20
80-90	16.01	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	1096.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.47
10-20	153.93
20-30	263.92
30-40	289.97
40-50	131.28
50-60	84.95
60-70	59.04
70-80	34.93
80-90	16.01
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

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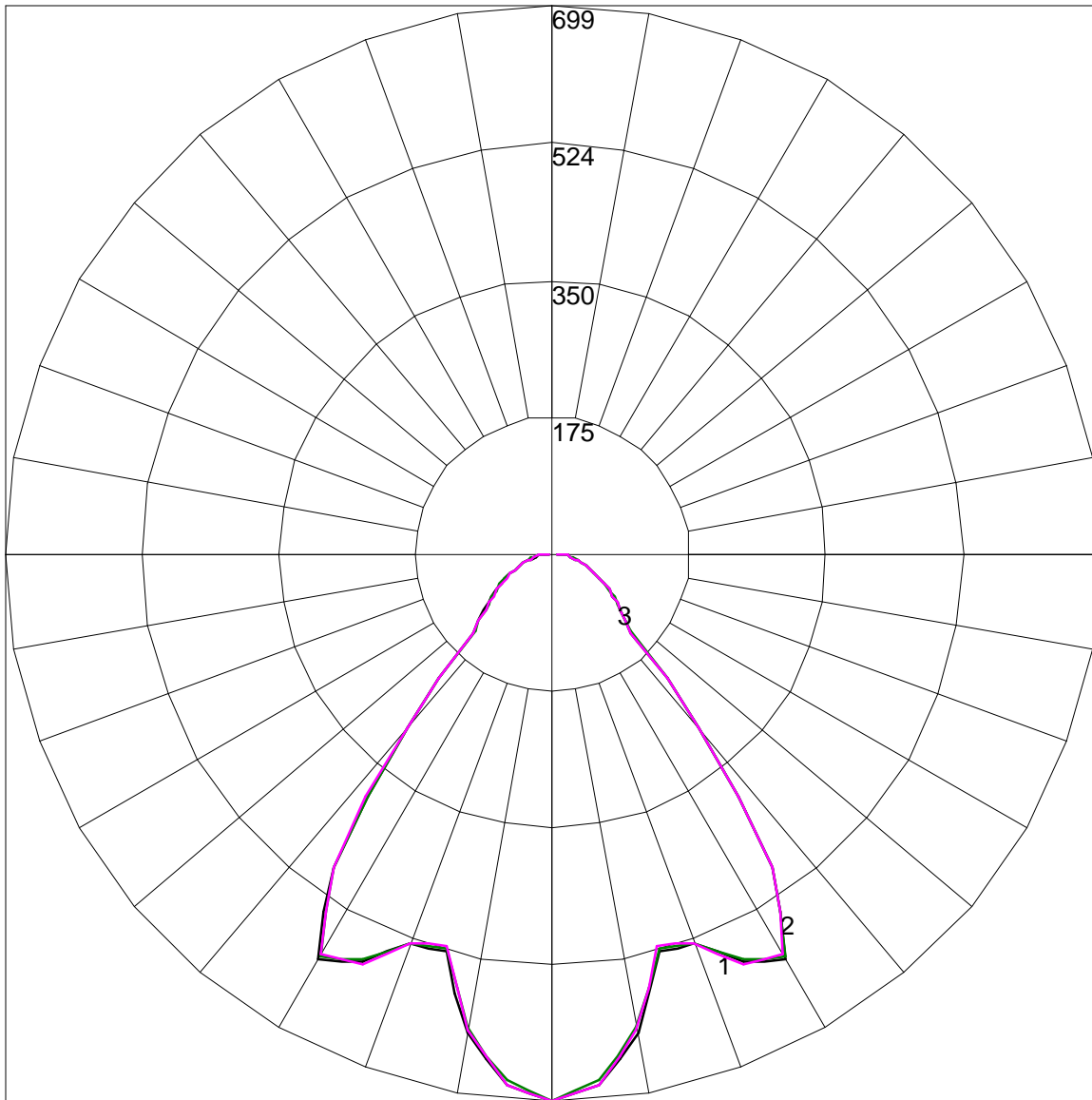
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	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	82	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	69	64	72	67	64	62
5	83	73	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	56
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	57	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	49	42	37	48	41	37	47	41	37	46	41	37	35

POLAR GRAPH



Maximum Candela = 699.104 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)