

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16XX16FO90.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: www.ltiopics.com/ies

[ISSUE DATE]

[TEST DATE] Wed Jun 29 2016

[UPDATE] Mon Sep 18 2017

[TEST] SP-00392_33_M-55L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] ALxxx16LEDGV-55L-35K-EX-AL16-xx16-FO90

[LUMINAIRE] 16" Diam. LED Low Bay: ALDDH and ALEXT Series, Spun Aluminum Reflector

[OTHER] Flat Lens, White Optical Acrylic

[OTHER] 68.4 Deg. Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, 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 Gen2 60L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3969
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.02
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16XX16FO90.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7179	7212	7253
55	5640	5515	5617
65	3891	3982	3923
75	2430	2423	2426
85	1765	1848	1694

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16XX16FO90.IES

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	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314
2.5	2643.836	2618.022	2632.048	2638.290	2651.553	2638.290	2632.048	2618.022	2643.836	2618.022
5.0	2649.358	2597.729	2625.782	2638.266	2664.791	2638.266	2625.782	2597.729	2649.358	2597.729
7.5	2650.166	2628.973	2637.444	2641.230	2657.587	2641.230	2637.444	2628.973	2650.166	2628.973
10.0	2650.973	2660.217	2649.106	2644.194	2650.383	2644.194	2649.106	2660.217	2650.973	2660.217
12.5	2606.868	2623.355	2611.094	2596.782	2629.588	2596.782	2611.094	2623.355	2606.868	2623.355
15.0	2562.763	2586.493	2573.081	2549.370	2608.792	2549.370	2573.081	2586.493	2562.763	2586.493
17.5	2478.291	2492.539	2490.954	2478.774	2495.808	2478.774	2490.954	2492.539	2478.291	2492.539
20.0	2393.818	2398.585	2408.826	2408.178	2382.823	2408.178	2408.826	2398.585	2393.818	2398.585
22.5	2248.328	2259.927	2264.883	2265.754	2249.958	2265.754	2264.883	2259.927	2248.328	2259.927
25.0	2102.838	2121.269	2120.940	2123.329	2117.092	2123.329	2120.940	2121.269	2102.838	2121.269
27.5	1906.881	1922.754	1925.872	1934.261	1931.080	1934.261	1925.872	1922.754	1906.881	1922.754
30.0	1710.923	1724.238	1730.804	1745.193	1745.068	1745.193	1730.804	1724.238	1710.923	1724.238
32.5	1496.172	1507.292	1503.168	1516.962	1514.540	1516.962	1503.168	1507.292	1496.172	1507.292
35.0	1281.420	1290.345	1275.531	1288.731	1284.012	1288.731	1275.531	1290.345	1281.420	1290.345
37.5	1086.222	1095.084	1089.176	1094.761	1091.390	1094.761	1089.176	1095.084	1086.222	1095.084
40.0	891.023	899.823	902.820	900.790	898.768	900.790	902.820	899.823	891.023	899.823
42.5	775.046	775.979	782.482	777.178	782.332	777.178	782.482	775.979	775.046	775.979
45.0	659.069	652.135	662.144	653.566	665.896	653.566	662.144	652.135	659.069	652.135
47.5	589.663	587.844	591.693	586.476	594.580	586.476	591.693	587.844	589.663	587.844
50.0	520.256	523.553	521.242	519.385	523.263	519.385	521.242	523.553	520.256	523.553
52.5	470.132	468.106	465.988	466.244	470.784	466.244	465.988	468.106	470.132	468.106
55.0	420.007	412.658	410.733	413.102	418.305	413.102	410.733	412.658	420.007	412.658
57.5	366.831	363.379	360.990	362.281	365.231	362.281	360.990	363.379	366.831	363.379
60.0	313.656	314.101	311.248	311.461	312.157	311.461	311.248	314.101	313.656	314.101
62.5	263.590	264.504	264.871	265.297	263.706	265.297	264.871	264.504	263.590	264.504
65.0	213.523	214.906	218.494	219.132	215.254	219.132	218.494	214.906	213.523	214.906
67.5	177.145	176.086	179.195	180.128	177.169	180.128	179.195	176.086	177.145	176.086
70.0	140.766	137.266	139.896	141.124	139.084	141.124	139.896	137.266	140.766	137.266
72.5	111.205	109.668	110.664	111.650	110.296	111.650	110.664	109.668	111.205	109.668
75.0	81.644	82.069	81.431	82.176	81.508	82.176	81.431	82.069	81.644	82.069
77.5	62.251	63.566	63.232	62.846	63.498	62.846	63.232	63.566	62.251	63.566
80.0	42.857	45.062	45.033	43.515	45.488	43.515	45.033	45.062	42.857	45.062
82.5	31.418	32.569	32.975	31.732	32.327	31.732	32.975	32.569	31.418	32.569
85.0	19.978	20.075	20.916	19.949	19.166	19.949	20.916	20.075	19.978	20.075
87.5	13.045	13.089	13.712	12.910	12.861	12.910	13.712	13.089	13.045	13.089
90.0	6.111	6.102	6.508	5.870	6.556	5.870	6.508	6.102	6.111	6.102

**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	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314	2638.314
2.5	2632.048	2638.290	2651.553	2638.290	2632.048	2618.022	2643.836
5.0	2625.782	2638.266	2664.791	2638.266	2625.782	2597.729	2649.358
7.5	2637.444	2641.230	2657.587	2641.230	2637.444	2628.973	2650.166
10.0	2649.106	2644.194	2650.383	2644.194	2649.106	2660.217	2650.973
12.5	2611.094	2596.782	2629.588	2596.782	2611.094	2623.355	2606.868
15.0	2573.081	2549.370	2608.792	2549.370	2573.081	2586.493	2562.763
17.5	2490.954	2478.774	2495.808	2478.774	2490.954	2492.539	2478.291
20.0	2408.826	2408.178	2382.823	2408.178	2408.826	2398.585	2393.818
22.5	2264.883	2265.754	2249.958	2265.754	2264.883	2259.927	2248.328
25.0	2120.940	2123.329	2117.092	2123.329	2120.940	2121.269	2102.838
27.5	1925.872	1934.261	1931.080	1934.261	1925.872	1922.754	1906.881
30.0	1730.804	1745.193	1745.068	1745.193	1730.804	1724.238	1710.923

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16XX16FO90.IES****CANDELA TABULATION - (Cont.)**

32.5	1503.168	1516.962	1514.540	1516.962	1503.168	1507.292	1496.172
35.0	1275.531	1288.731	1284.012	1288.731	1275.531	1290.345	1281.420
37.5	1089.176	1094.761	1091.390	1094.761	1089.176	1095.084	1086.222
40.0	902.820	900.790	898.768	900.790	902.820	899.823	891.023
42.5	782.482	777.178	782.332	777.178	782.482	775.979	775.046
45.0	662.144	653.566	665.896	653.566	662.144	652.135	659.069
47.5	591.693	586.476	594.580	586.476	591.693	587.844	589.663
50.0	521.242	519.385	523.263	519.385	521.242	523.553	520.256
52.5	465.988	466.244	470.784	466.244	465.988	468.106	470.132
55.0	410.733	413.102	418.305	413.102	410.733	412.658	420.007
57.5	360.990	362.281	365.231	362.281	360.990	363.379	366.831
60.0	311.248	311.461	312.157	311.461	311.248	314.101	313.656
62.5	264.871	265.297	263.706	265.297	264.871	264.504	263.590
65.0	218.494	219.132	215.254	219.132	218.494	214.906	213.523
67.5	179.195	180.128	177.169	180.128	179.195	176.086	177.145
70.0	139.896	141.124	139.084	141.124	139.896	137.266	140.766
72.5	110.664	111.650	110.296	111.650	110.664	109.668	111.205
75.0	81.431	82.176	81.508	82.176	81.431	82.069	81.644
77.5	63.232	62.846	63.498	62.846	63.232	63.566	62.251
80.0	45.033	43.515	45.488	43.515	45.033	45.062	42.857
82.5	32.975	31.732	32.327	31.732	32.975	32.569	31.418
85.0	20.916	19.949	19.166	19.949	20.916	20.075	19.978
87.5	13.712	12.910	12.861	12.910	13.712	13.089	13.045
90.0	6.508	5.870	6.556	5.870	6.508	6.102	6.111

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16XX16FO90.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	971.12	N.A.	24.50
0-30	1930.7	N.A.	48.60
0-40	2737.21	N.A.	69.00
0-60	3633.89	N.A.	91.60
0-80	3944.09	N.A.	99.40
0-90	3968.84	N.A.	100.00
10-90	3716.91	N.A.	93.70
20-40	1766.1	N.A.	44.50
20-50	2291.86	N.A.	57.70
40-70	1115.31	N.A.	28.10
60-80	310.20	N.A.	7.80
70-80	91.57	N.A.	2.30
80-90	24.74	N.A.	0.60
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	3968.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.92
10-20	719.19
20-30	959.58
30-40	806.51
40-50	525.76
50-60	370.92
60-70	218.63
70-80	91.57
80-90	24.74
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

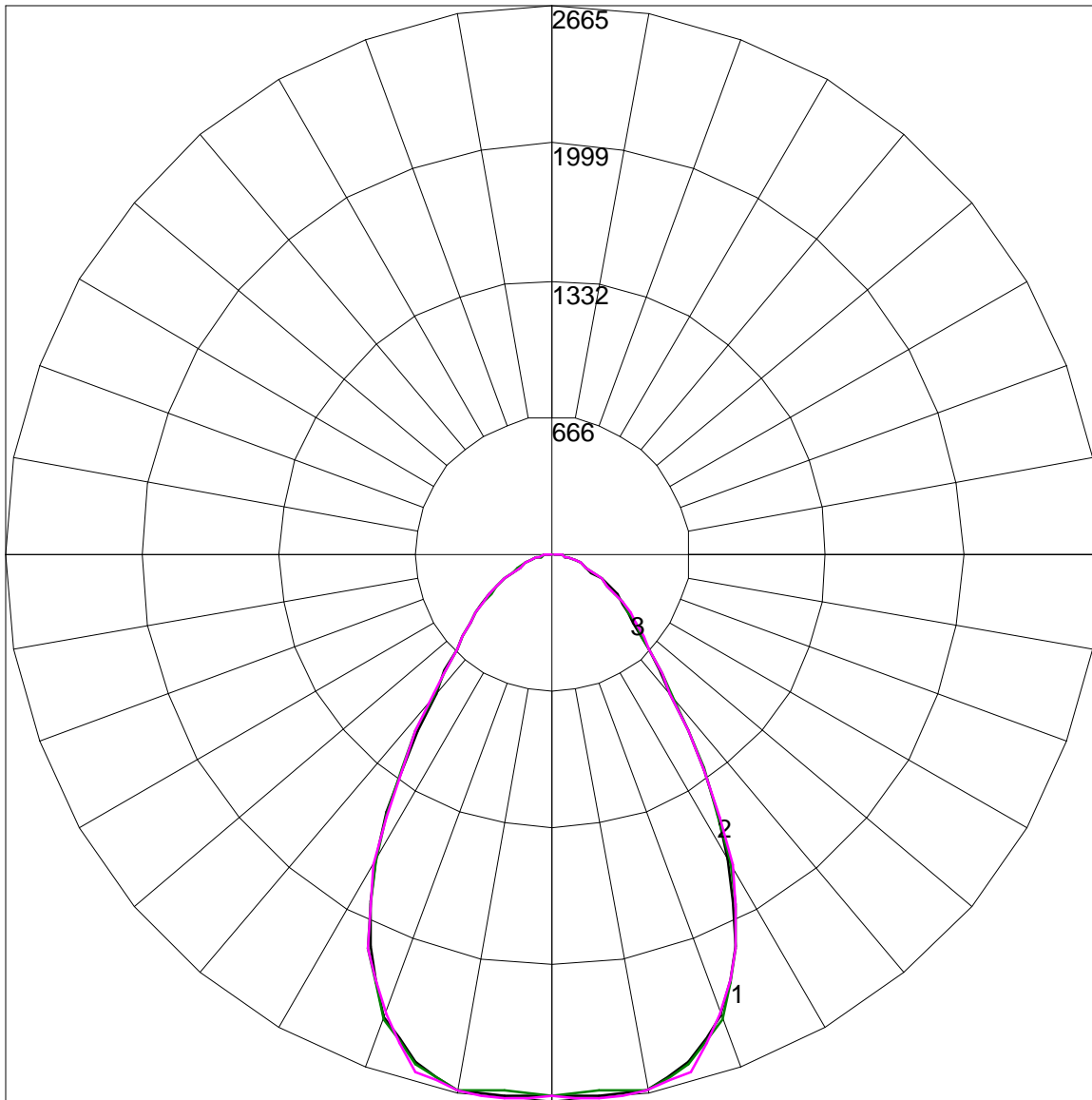
PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16XX16FO90.IES

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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	82	77	74	79	75	72	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37

POLAR GRAPH



Maximum Candela = 2664.791 Located At Horizontal Angle = 90, Vertical Angle = 5

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

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

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