

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALXXX16LEDGV-37L35KEX-AL16XX16FO90.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Wed Jun 29 2016

[UPDATE] Mon Sep 18 2017

[TEST] SP-00392_33_M-37L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] ALxxx16LEDGV-37L-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	2695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	26
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-37L35KEX-AL16XX16FO90.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4874	4897	4925
55	3829	3745	3814
65	2642	2704	2664
75	1650	1645	1647
85	1199	1255	1150

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALXXX16LEDGV-37L35KEX-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	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435
2.5	1795.184	1777.656	1787.180	1791.419	1800.424	1791.419	1787.180	1777.656	1795.184	1777.656
5.0	1798.933	1763.877	1782.925	1791.402	1809.412	1791.402	1782.925	1763.877	1798.933	1763.877
7.5	1799.481	1785.092	1790.844	1793.415	1804.521	1793.415	1790.844	1785.092	1799.481	1785.092
10.0	1800.029	1806.307	1798.762	1795.427	1799.629	1795.427	1798.762	1806.307	1800.029	1806.307
12.5	1770.082	1781.277	1772.951	1763.234	1785.509	1763.234	1772.951	1781.277	1770.082	1781.277
15.0	1740.134	1756.247	1747.140	1731.041	1771.389	1731.041	1747.140	1756.247	1740.134	1756.247
17.5	1682.777	1692.452	1691.375	1683.106	1694.672	1683.106	1691.375	1692.452	1682.777	1692.452
20.0	1625.420	1628.657	1635.610	1635.170	1617.954	1635.170	1635.610	1628.657	1625.420	1628.657
22.5	1526.631	1534.507	1537.872	1538.463	1527.738	1538.463	1537.872	1534.507	1526.631	1534.507
25.0	1427.842	1440.357	1440.134	1441.756	1437.521	1441.756	1440.134	1440.357	1427.842	1440.357
27.5	1294.786	1305.564	1307.682	1313.378	1311.217	1313.378	1307.682	1305.564	1294.786	1305.564
30.0	1161.729	1170.770	1175.229	1184.999	1184.913	1184.999	1175.229	1170.770	1161.729	1170.770
32.5	1015.911	1023.462	1020.662	1030.028	1028.383	1030.028	1020.662	1023.462	1015.911	1023.462
35.0	870.093	876.154	866.095	875.057	871.853	875.057	866.095	876.154	870.093	876.154
37.5	737.552	743.570	739.558	743.350	741.062	743.350	739.558	743.570	737.552	743.570
40.0	605.011	610.986	613.021	611.643	610.270	611.643	613.021	610.986	605.011	610.986
42.5	526.262	526.895	531.311	527.710	531.209	527.710	531.311	526.895	526.262	526.895
45.0	447.512	442.804	449.600	443.776	452.148	443.776	449.600	442.804	447.512	442.804
47.5	400.385	399.150	401.764	398.221	403.724	398.221	401.764	399.150	400.385	399.150
50.0	353.257	355.496	353.927	352.666	355.299	352.666	353.927	355.496	353.257	355.496
52.5	319.223	317.847	316.409	316.583	319.666	316.583	316.409	317.847	319.223	317.847
55.0	285.188	280.197	278.891	280.500	284.032	280.500	278.891	280.197	285.188	280.197
57.5	249.081	246.737	245.115	245.992	247.994	245.992	245.115	246.737	249.081	246.737
60.0	212.975	213.277	211.340	211.484	211.957	211.484	211.340	213.277	212.975	213.277
62.5	178.980	179.600	179.850	180.138	179.058	180.138	179.850	179.600	178.980	179.600
65.0	144.984	145.923	148.359	148.792	146.159	148.792	148.359	145.923	144.984	145.923
67.5	120.283	119.564	121.675	122.308	120.299	122.308	121.675	119.564	120.283	119.564
70.0	95.581	93.204	94.990	95.824	94.439	95.824	94.990	93.204	95.581	93.204
72.5	75.509	74.465	75.141	75.811	74.892	75.811	74.465	75.509	74.465	75.509
75.0	55.437	55.726	55.292	55.798	55.345	55.798	55.292	55.726	55.437	55.726
77.5	42.269	43.162	42.935	42.673	43.116	42.673	42.935	43.162	42.269	43.162
80.0	29.101	30.598	30.578	29.547	30.886	29.547	30.578	30.598	29.101	30.598
82.5	21.333	22.115	22.390	21.547	21.950	21.547	22.390	22.115	21.333	22.115
85.0	13.565	13.631	14.202	13.546	13.014	13.546	14.202	13.631	13.565	13.631
87.5	8.858	8.887	9.311	8.766	8.733	8.766	9.311	8.887	8.858	8.887
90.0	4.150	4.143	4.419	3.986	4.452	3.986	4.419	4.143	4.150	4.143

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	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435	1791.435
2.5	1787.180	1791.419	1800.424	1791.419	1787.180	1777.656	1795.184
5.0	1782.925	1791.402	1809.412	1791.402	1782.925	1763.877	1798.933
7.5	1790.844	1793.415	1804.521	1793.415	1790.844	1785.092	1799.481
10.0	1798.762	1795.427	1799.629	1795.427	1798.762	1806.307	1800.029
12.5	1772.951	1763.234	1785.509	1763.234	1772.951	1781.277	1770.082
15.0	1747.140	1731.041	1771.389	1731.041	1747.140	1756.247	1740.134
17.5	1691.375	1683.106	1694.672	1683.106	1691.375	1692.452	1682.777
20.0	1635.610	1635.170	1617.954	1635.170	1635.610	1628.657	1625.420
22.5	1537.872	1538.463	1527.738	1538.463	1537.872	1534.507	1526.631
25.0	1440.134	1441.756	1437.521	1441.756	1440.134	1440.357	1427.842
27.5	1307.682	1313.378	1311.217	1313.378	1307.682	1305.564	1294.786
30.0	1175.229	1184.999	1184.913	1184.999	1175.229	1170.770	1161.729

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALXXX16LEDGV-37L35KEX-AL16XX16FO90.IES****CANDELA TABULATION - (Cont.)**

32.5	1020.662	1030.028	1028.383	1030.028	1020.662	1023.462	1015.911
35.0	866.095	875.057	871.853	875.057	866.095	876.154	870.093
37.5	739.558	743.350	741.062	743.350	739.558	743.570	737.552
40.0	613.021	611.643	610.270	611.643	613.021	610.986	605.011
42.5	531.311	527.710	531.209	527.710	531.311	526.895	526.262
45.0	449.600	443.776	452.148	443.776	449.600	442.804	447.512
47.5	401.764	398.221	403.724	398.221	401.764	399.150	400.385
50.0	353.927	352.666	355.299	352.666	353.927	355.496	353.257
52.5	316.409	316.583	319.666	316.583	316.409	317.847	319.223
55.0	278.891	280.500	284.032	280.500	278.891	280.197	285.188
57.5	245.115	245.992	247.994	245.992	245.115	246.737	249.081
60.0	211.340	211.484	211.957	211.484	211.340	213.277	212.975
62.5	179.850	180.138	179.058	180.138	179.850	179.600	178.980
65.0	148.359	148.792	146.159	148.792	148.359	145.923	144.984
67.5	121.675	122.308	120.299	122.308	121.675	119.564	120.283
70.0	94.990	95.824	94.439	95.824	94.990	93.204	95.581
72.5	75.141	75.811	74.892	75.811	75.141	74.465	75.509
75.0	55.292	55.798	55.345	55.798	55.292	55.726	55.437
77.5	42.935	42.673	43.116	42.673	42.935	43.162	42.269
80.0	30.578	29.547	30.886	29.547	30.578	30.598	29.101
82.5	22.390	21.547	21.950	21.547	22.390	22.115	21.333
85.0	14.202	13.546	13.014	13.546	14.202	13.631	13.565
87.5	9.311	8.766	8.733	8.766	9.311	8.887	8.858
90.0	4.419	3.986	4.452	3.986	4.419	4.143	4.150

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALXXX16LEDGV-37L35KEX-AL16XX16FO90.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	659.39	N.A.	24.50
0-30	1310.96	N.A.	48.60
0-40	1858.59	N.A.	69.00
0-60	2467.44	N.A.	91.60
0-80	2678.07	N.A.	99.40
0-90	2694.87	N.A.	100.00
10-90	2523.81	N.A.	93.70
20-40	1199.19	N.A.	44.50
20-50	1556.19	N.A.	57.70
40-70	757.31	N.A.	28.10
60-80	210.63	N.A.	7.80
70-80	62.18	N.A.	2.30
80-90	16.80	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	2694.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	171.06
10-20	488.34
20-30	651.56
30-40	547.63
40-50	357.00
50-60	251.86
60-70	148.45
70-80	62.18
80-90	16.80
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

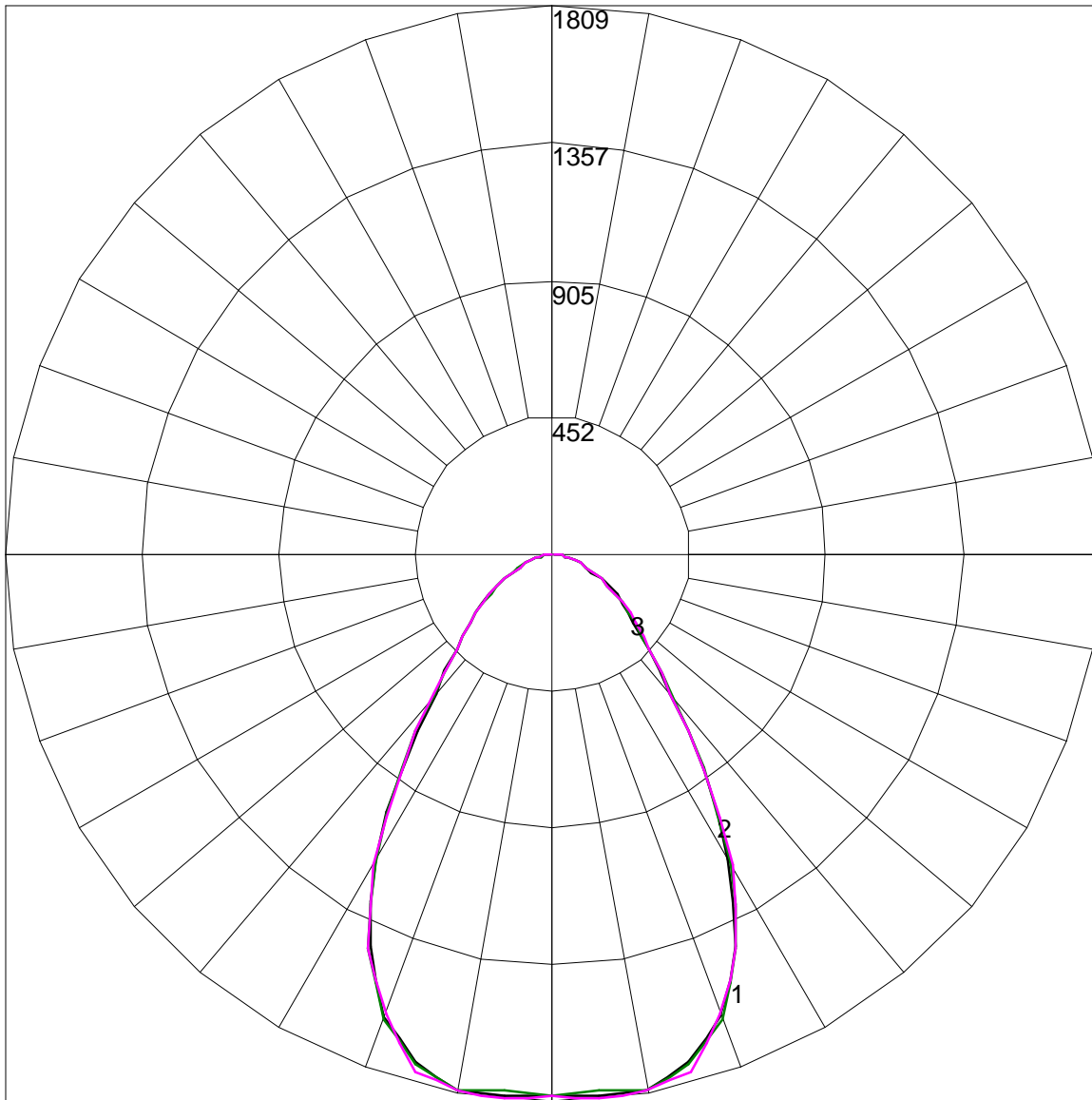
PHOTOMETRIC FILENAME : ALXXX16LEDGV-37L35KEX-AL16XX16FO90.IES

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 = 1809.412 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)