

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : ALXXX16LEDGV-37L35KEX-AL16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Jun 29 2016

[UPDATE] 8/2/2018

[TEST] SP-00392\_32\_M-37L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] ALxxx16LEDGV-37L-35K-EX-AL16

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

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

[OTHER] Open Aperture, No Lens

[OTHER] 71.5 Deg. Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Gen3

[OTHER] Total Luminaire Watts is approximate

[\_CCTMULT] 50K x 1.06, 40K X 1.03, 30K X 0.985, 27K X 0.971

[\_LAMPMULT] 15L x 0.27, 27L x 0.46, 37L x 0.68

[\_CRI] 85+

[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3051
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.06
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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3961	3968	3991
55	3903	3850	3863
65	3655	3649	3662
75	3370	3387	3338
85	2979	2977	3009

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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	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132
2.5	2069.397	2074.702	2059.498	2061.429	2062.020	2061.429	2059.498	2074.702	2069.397	2074.702
5.0	2063.661	2074.272	2043.864	2047.725	2048.907	2047.725	2043.864	2074.272	2063.661	2074.272
7.5	2003.474	2010.214	2004.807	1997.085	2008.500	1997.085	2004.807	2010.214	2003.474	2010.214
10.0	1943.286	1946.156	1965.749	1946.445	1968.093	1946.445	1965.749	1946.156	1943.286	1946.156
12.5	1890.647	1880.874	1898.136	1892.410	1893.385	1892.410	1898.136	1880.874	1890.647	1880.874
15.0	1838.007	1815.591	1830.522	1838.375	1818.677	1838.375	1830.522	1815.591	1838.007	1815.591
17.5	1769.307	1747.869	1762.157	1764.669	1764.337	1764.669	1762.157	1747.869	1769.307	1747.869
20.0	1700.607	1680.147	1693.792	1690.962	1709.997	1690.962	1693.792	1680.147	1700.607	1680.147
22.5	1643.979	1637.189	1647.351	1641.097	1655.460	1641.097	1647.351	1637.189	1643.979	1637.189
25.0	1587.350	1594.231	1600.909	1591.231	1600.922	1591.231	1600.909	1594.231	1587.350	1594.231
27.5	1546.270	1553.112	1554.777	1547.807	1552.879	1547.807	1554.777	1553.112	1546.270	1553.112
30.0	1505.190	1511.992	1508.644	1504.382	1504.835	1504.382	1508.644	1511.992	1505.190	1511.992
32.5	1347.872	1353.249	1352.465	1348.617	1350.147	1348.617	1352.465	1353.249	1347.872	1353.249
35.0	1190.554	1194.506	1196.286	1192.852	1195.458	1192.852	1196.286	1194.506	1190.554	1194.506
37.5	863.466	866.837	866.982	864.404	867.204	864.404	866.982	866.837	863.466	866.837
40.0	536.377	539.167	537.677	535.956	538.950	535.956	537.677	539.167	536.377	539.167
42.5	450.024	451.902	450.993	449.502	452.673	449.502	450.993	451.902	450.024	451.902
45.0	363.671	364.636	364.308	363.047	366.396	363.047	364.308	364.636	363.671	364.636
47.5	344.915	346.875	347.965	346.813	348.044	346.813	347.965	346.875	344.915	346.875
50.0	326.159	329.114	331.622	330.578	329.692	330.578	331.622	329.114	326.159	329.114
52.5	308.402	308.976	309.160	309.679	308.691	309.679	309.160	308.976	308.402	308.976
55.0	290.644	288.838	286.698	288.779	287.689	288.779	286.698	288.838	290.644	288.838
57.5	269.872	265.473	266.970	266.546	266.415	266.546	266.970	265.473	269.872	265.473
60.0	249.101	242.108	247.243	244.314	245.142	244.314	247.243	242.108	249.101	242.108
62.5	224.830	221.406	223.737	222.656	223.047	222.656	223.737	221.406	224.830	221.406
65.0	200.558	200.703	200.230	200.998	200.952	200.998	200.230	200.703	200.558	200.703
67.5	179.298	178.635	177.335	178.694	178.365	178.694	177.335	178.635	179.298	178.635
70.0	158.037	156.566	154.439	156.389	155.778	156.389	154.439	156.566	158.037	156.566
72.5	135.650	135.936	134.131	134.649	133.983	134.649	134.131	135.936	135.650	135.936
75.0	113.263	115.306	113.822	112.909	112.187	112.909	113.822	115.306	113.263	115.306
77.5	92.407	94.919	92.532	92.794	93.123	92.794	92.532	94.919	92.407	94.919
80.0	71.550	74.531	71.241	72.679	74.058	72.679	71.241	74.531	71.550	74.531
82.5	52.630	54.469	52.466	53.451	54.055	53.451	52.466	54.469	52.630	54.469
85.0	33.710	34.406	33.690	34.222	34.051	34.222	33.690	34.406	33.710	34.406
87.5	20.723	21.212	20.601	20.969	20.755	20.969	20.601	21.212	20.723	21.212
90.0	7.735	8.017	7.512	7.715	7.459	7.715	7.512	8.017	7.735	8.017

**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	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132	2075.132
2.5	2059.498	2061.429	2062.020	2061.429	2059.498	2074.702	2069.397
5.0	2043.864	2047.725	2048.907	2047.725	2043.864	2074.272	2063.661
7.5	2004.807	1997.085	2008.500	1997.085	2004.807	2010.214	2003.474
10.0	1965.749	1946.445	1968.093	1946.445	1965.749	1946.156	1943.286
12.5	1898.136	1892.410	1893.385	1892.410	1898.136	1880.874	1890.647
15.0	1830.522	1838.375	1818.677	1838.375	1830.522	1815.591	1838.007
17.5	1762.157	1764.669	1764.337	1764.669	1762.157	1747.869	1769.307
20.0	1693.792	1690.962	1709.997	1690.962	1693.792	1680.147	1700.607
22.5	1647.351	1641.097	1655.460	1641.097	1647.351	1637.189	1643.979

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**CANDELA TABULATION - (Cont.)**

25.0	1600.909	1591.231	1600.922	1591.231	1600.909	1594.231	1587.350
27.5	1554.777	1547.807	1552.879	1547.807	1554.777	1553.112	1546.270
30.0	1508.644	1504.382	1504.835	1504.382	1508.644	1511.992	1505.190
32.5	1352.465	1348.617	1350.147	1348.617	1352.465	1353.249	1347.872
35.0	1196.286	1192.852	1195.458	1192.852	1196.286	1194.506	1190.554
37.5	866.982	864.404	867.204	864.404	866.982	866.837	863.466
40.0	537.677	535.956	538.950	535.956	537.677	539.167	536.377
42.5	450.993	449.502	452.673	449.502	450.993	451.902	450.024
45.0	364.308	363.047	366.396	363.047	364.308	364.636	363.671
47.5	347.965	346.813	348.044	346.813	347.965	346.875	344.915
50.0	331.622	330.578	329.692	330.578	331.622	329.114	326.159
52.5	309.160	309.679	308.691	309.679	309.160	308.976	308.402
55.0	286.698	288.779	287.689	288.779	286.698	288.838	290.644
57.5	266.970	266.546	266.415	266.546	266.970	265.473	269.872
60.0	247.243	244.314	245.142	244.314	247.243	242.108	249.101
62.5	223.737	222.656	223.047	222.656	223.737	221.406	224.830
65.0	200.230	200.998	200.952	200.998	200.230	200.703	200.558
67.5	177.335	178.694	178.365	178.694	177.335	178.635	179.298
70.0	154.439	156.389	155.778	156.389	154.439	156.566	158.037
72.5	134.131	134.649	133.983	134.649	134.131	135.936	135.650
75.0	113.822	112.909	112.187	112.909	113.822	115.306	113.263
77.5	92.532	92.794	93.123	92.794	92.532	94.919	92.407
80.0	71.241	72.679	74.058	72.679	71.241	74.531	71.550
82.5	52.466	53.451	54.055	53.451	52.466	54.469	52.630
85.0	33.690	34.222	34.051	34.222	33.690	34.406	33.710
87.5	20.601	20.969	20.755	20.969	20.601	21.212	20.723
90.0	7.512	7.715	7.459	7.715	7.512	8.017	7.735

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	706.17	N.A.	23.10
0-30	1443.13	N.A.	47.30
0-40	2127.55	N.A.	69.70
0-60	2691.94	N.A.	88.20
0-80	3010.9	N.A.	98.70
0-90	3051.35	N.A.	100.00
10-90	2858.92	N.A.	93.70
20-40	1421.38	N.A.	46.60
20-50	1728.17	N.A.	56.60
40-70	762.99	N.A.	25.00
60-80	318.96	N.A.	10.50
70-80	120.35	N.A.	3.90
80-90	40.45	N.A.	1.30
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	3051.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	192.44
10-20	513.74
20-30	736.96
30-40	684.43
40-50	306.78
50-60	257.60
60-70	198.61
70-80	120.35
80-90	40.45
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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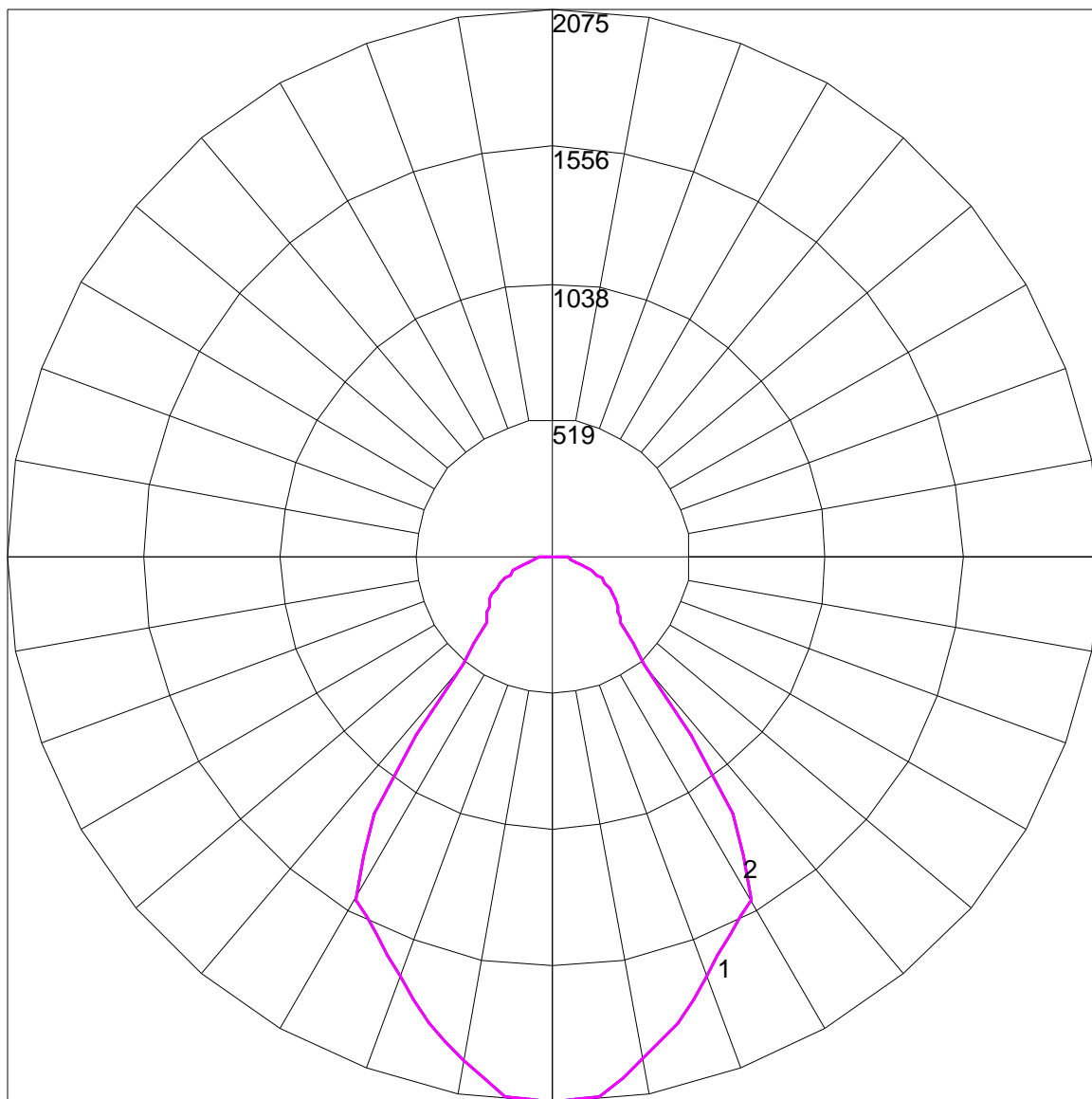
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

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POLAR GRAPH



Maximum Candela = 2075.132 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)