

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALXXX16LEDGV-15L35KEX-AL16.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Jun 29 2016

[UPDATE] 8/2/2018

[TEST] SP-00392_32_M-15L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] ALxxx16LEDGV-15L-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	1192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	10
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	1547	1550	1558
55	1524	1503	1509
65	1427	1425	1430
75	1316	1323	1304
85	1163	1163	1175

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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	810.332	810.332	810.332	810.332	810.332	810.332	810.332	810.332	810.332	810.332
2.5	808.092	810.164	804.227	804.981	805.212	804.981	804.227	810.164	808.092	810.164
5.0	805.852	809.996	798.122	799.630	800.091	799.630	798.122	809.996	805.852	809.996
7.5	782.350	784.982	782.870	779.855	784.312	779.855	782.870	784.982	782.350	784.982
10.0	758.847	759.967	767.618	760.080	768.533	760.080	767.618	759.967	758.847	759.967
12.5	738.291	734.475	741.215	738.980	739.360	738.980	741.215	734.475	738.291	734.475
15.0	717.735	708.982	714.812	717.879	710.187	717.879	714.812	708.982	717.735	708.982
17.5	690.908	682.537	688.116	689.097	688.968	689.097	688.116	682.537	690.908	682.537
20.0	664.081	656.092	661.420	660.315	667.748	660.315	661.420	656.092	664.081	656.092
22.5	641.968	639.317	643.285	640.843	646.451	640.843	643.285	639.317	641.968	639.317
25.0	619.855	622.542	625.149	621.370	625.154	621.370	625.149	622.542	619.855	622.542
27.5	603.813	606.485	607.135	604.413	606.394	604.413	607.135	606.485	603.813	606.485
30.0	587.771	590.428	589.120	587.456	587.633	587.456	589.120	590.428	587.771	590.428
32.5	526.339	528.440	528.133	526.630	527.228	526.630	528.133	528.440	526.339	528.440
35.0	464.907	466.451	467.145	465.804	466.822	465.804	467.145	466.451	464.907	466.451
37.5	337.180	338.497	338.553	337.547	338.640	337.547	338.553	338.497	337.180	338.497
40.0	209.453	210.543	209.961	209.289	210.458	209.289	209.961	210.543	209.453	210.543
42.5	175.733	176.466	176.111	175.529	176.767	175.529	176.111	176.466	175.733	176.466
45.0	142.012	142.389	142.261	141.769	143.076	141.769	142.261	142.389	142.012	142.389
47.5	134.688	135.454	135.879	135.430	135.910	135.430	135.879	135.454	134.688	135.454
50.0	127.364	128.518	129.497	129.090	128.744	129.090	129.497	128.518	127.364	128.518
52.5	120.430	120.654	120.726	120.929	120.543	120.929	120.726	120.654	120.430	120.654
55.0	113.495	112.790	111.954	112.767	112.342	112.767	111.954	112.790	113.495	112.790
57.5	105.384	103.666	104.250	104.085	104.034	104.085	104.250	103.666	105.384	103.666
60.0	97.273	94.542	96.547	95.404	95.727	95.404	96.547	94.542	97.273	94.542
62.5	87.795	86.458	87.368	86.947	87.099	86.947	87.368	86.458	87.795	86.458
65.0	78.317	78.374	78.189	78.489	78.471	78.489	78.189	78.374	78.317	78.374
67.5	70.015	69.757	69.249	69.779	69.651	69.779	69.249	69.757	70.015	69.757
70.0	61.713	61.139	60.308	61.069	60.831	61.069	60.308	61.139	61.713	61.139
72.5	52.971	53.083	52.378	52.580	52.320	52.580	52.378	53.083	52.971	53.083
75.0	44.229	45.026	44.447	44.091	43.809	44.091	44.447	45.026	44.229	45.026
77.5	36.085	37.065	36.133	36.236	36.364	36.236	36.133	37.065	36.085	37.065
80.0	27.940	29.104	27.819	28.381	28.919	28.381	27.819	29.104	27.940	29.104
82.5	20.552	21.270	20.488	20.873	21.108	20.873	20.488	21.270	20.552	21.270
85.0	13.164	13.435	13.156	13.364	13.297	13.364	13.156	13.435	13.164	13.435
87.5	8.092	8.283	8.045	8.189	8.105	8.189	8.045	8.283	8.092	8.283
90.0	3.020	3.131	2.933	3.013	2.913	3.013	2.933	3.131	3.020	3.131

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	810.332	810.332	810.332	810.332	810.332	810.332	810.332
2.5	804.227	804.981	805.212	804.981	804.227	810.164	808.092
5.0	798.122	799.630	800.091	799.630	798.122	809.996	805.852
7.5	782.870	779.855	784.312	779.855	782.870	784.982	782.350
10.0	767.618	760.080	768.533	760.080	767.618	759.967	758.847
12.5	741.215	738.980	739.360	738.980	741.215	734.475	738.291
15.0	714.812	717.879	710.187	717.879	714.812	708.982	717.735
17.5	688.116	689.097	688.968	689.097	688.116	682.537	690.908
20.0	661.420	660.315	667.748	660.315	661.420	656.092	664.081
22.5	643.285	640.843	646.451	640.843	643.285	639.317	641.968

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25.0	625.149	621.370	625.154	621.370	625.149	622.542	619.855
27.5	607.135	604.413	606.394	604.413	607.135	606.485	603.813
30.0	589.120	587.456	587.633	587.456	589.120	590.428	587.771
32.5	528.133	526.630	527.228	526.630	528.133	528.440	526.339
35.0	467.145	465.804	466.822	465.804	467.145	466.451	464.907
37.5	338.553	337.547	338.640	337.547	338.553	338.497	337.180
40.0	209.961	209.289	210.458	209.289	209.961	210.543	209.453
42.5	176.111	175.529	176.767	175.529	176.111	176.466	175.733
45.0	142.261	141.769	143.076	141.769	142.261	142.389	142.012
47.5	135.879	135.430	135.910	135.430	135.879	135.454	134.688
50.0	129.497	129.090	128.744	129.090	129.497	128.518	127.364
52.5	120.726	120.929	120.543	120.929	120.726	120.654	120.430
55.0	111.954	112.767	112.342	112.767	111.954	112.790	113.495
57.5	104.250	104.085	104.034	104.085	104.250	103.666	105.384
60.0	96.547	95.404	95.727	95.404	96.547	94.542	97.273
62.5	87.368	86.947	87.099	86.947	87.368	86.458	87.795
65.0	78.189	78.489	78.471	78.489	78.189	78.374	78.317
67.5	69.249	69.779	69.651	69.779	69.249	69.757	70.015
70.0	60.308	61.069	60.831	61.069	60.308	61.139	61.713
72.5	52.378	52.580	52.320	52.580	52.378	53.083	52.971
75.0	44.447	44.091	43.809	44.091	44.447	45.026	44.229
77.5	36.133	36.236	36.364	36.236	36.133	37.065	36.085
80.0	27.819	28.381	28.919	28.381	27.819	29.104	27.940
82.5	20.488	20.873	21.108	20.873	20.488	21.270	20.552
85.0	13.156	13.364	13.297	13.364	13.156	13.435	13.164
87.5	8.045	8.189	8.105	8.189	8.045	8.283	8.092
90.0	2.933	3.013	2.913	3.013	2.933	3.131	3.020

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	275.76	N.A.	23.10
0-30	563.54	N.A.	47.30
0-40	830.80	N.A.	69.70
0-60	1051.19	N.A.	88.20
0-80	1175.75	N.A.	98.70
0-90	1191.54	N.A.	100.00
10-90	1116.4	N.A.	93.70
20-40	555.05	N.A.	46.60
20-50	674.84	N.A.	56.60
40-70	297.95	N.A.	25.00
60-80	124.55	N.A.	10.50
70-80	47.00	N.A.	3.90
80-90	15.80	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	1191.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.15
10-20	200.61
20-30	287.78
30-40	267.27
40-50	119.80
50-60	100.59
60-70	77.56
70-80	47.00
80-90	15.80
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

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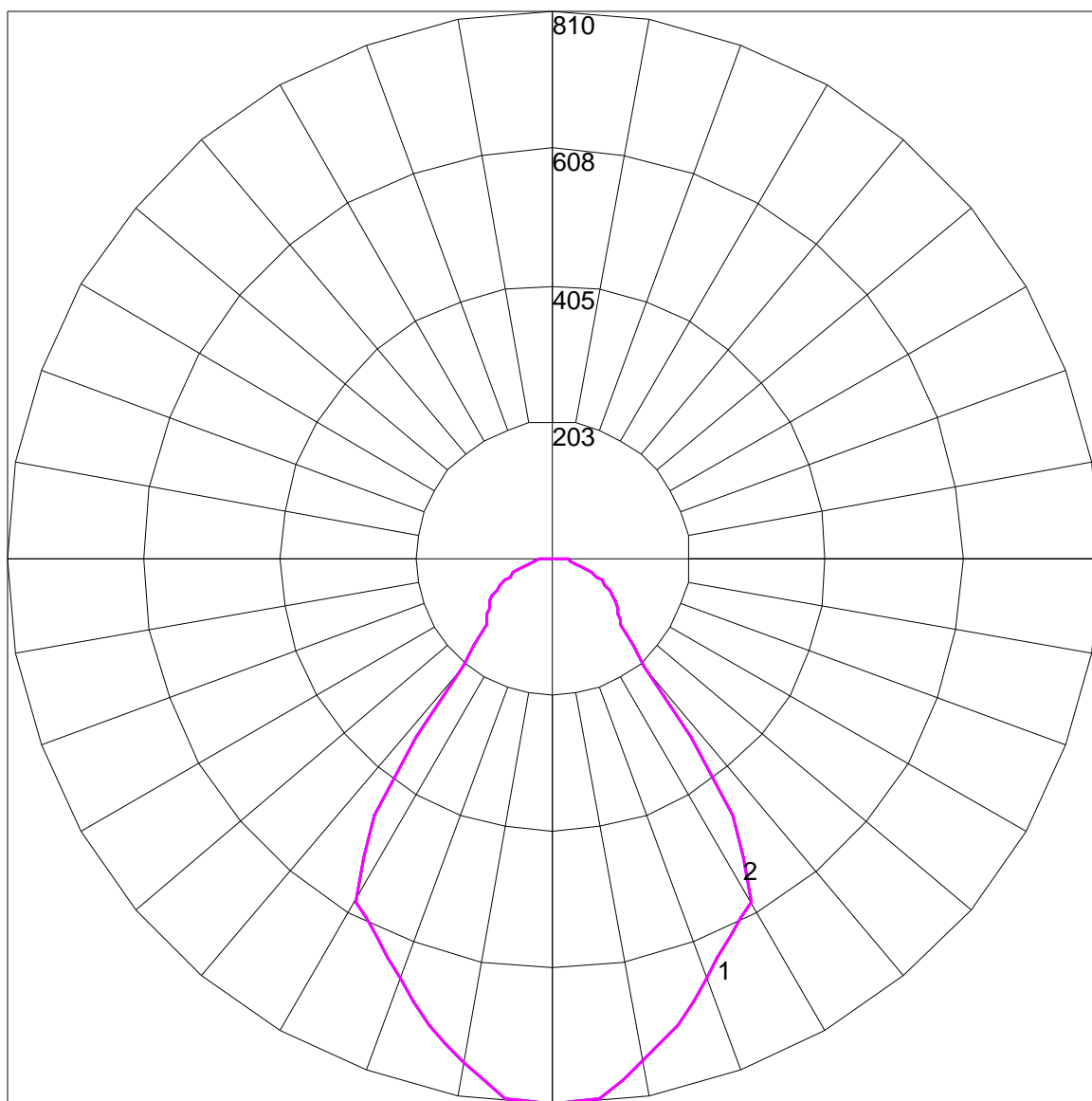
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	86	79	74	83	77	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	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	67	59	54	76	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	53	46	41	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 = 810.332 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)