

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALXXX16LEDGV-55L35KEX-AL16.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] 8/2/2018

[TEST] SP-00392_32_M-55L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] ALxxx16LEDGV-55L-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	4494
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	39
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	5834	5844	5877
55	5748	5670	5689
65	5383	5374	5393
75	4964	4988	4917
85	4387	4385	4432

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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	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126
2.5	3047.680	3055.493	3033.102	3035.945	3036.815	3035.945	3033.102	3055.493	3047.680	3055.493
5.0	3039.233	3054.859	3010.078	3015.764	3017.504	3015.764	3010.078	3054.859	3039.233	3054.859
7.5	2950.593	2960.519	2952.556	2941.184	2957.995	2941.184	2952.556	2960.519	2950.593	2960.519
10.0	2861.953	2866.178	2895.034	2866.604	2898.486	2866.604	2895.034	2866.178	2861.953	2866.178
12.5	2784.429	2770.034	2795.457	2787.025	2788.461	2787.025	2795.457	2770.034	2784.429	2770.034
15.0	2706.904	2673.890	2695.880	2707.445	2678.435	2707.445	2695.880	2673.890	2706.904	2673.890
17.5	2605.727	2574.154	2595.196	2598.895	2598.406	2598.895	2595.196	2574.154	2605.727	2574.154
20.0	2504.549	2474.418	2494.512	2490.344	2518.377	2490.344	2494.512	2474.418	2504.549	2474.418
22.5	2421.151	2411.152	2426.116	2416.905	2438.058	2416.905	2426.116	2411.152	2421.151	2411.152
25.0	2337.752	2347.886	2357.720	2343.466	2357.739	2343.466	2357.720	2347.886	2337.752	2347.886
27.5	2277.252	2287.328	2289.779	2279.514	2286.984	2279.514	2289.779	2287.328	2277.252	2287.328
30.0	2216.751	2226.769	2221.837	2215.561	2216.229	2215.561	2221.837	2226.769	2216.751	2226.769
32.5	1985.063	1992.982	1991.827	1986.160	1988.414	1986.160	1991.827	1992.982	1985.063	1992.982
35.0	1753.374	1759.195	1761.816	1756.759	1760.598	1756.759	1761.816	1759.195	1753.374	1759.195
37.5	1271.658	1276.624	1276.837	1273.041	1277.166	1273.041	1276.837	1276.624	1271.658	1276.624
40.0	789.942	794.052	791.857	789.323	793.733	789.323	791.857	794.052	789.942	794.052
42.5	662.767	665.533	664.194	661.999	666.669	661.999	664.194	665.533	662.767	665.533
45.0	535.592	537.014	536.530	534.674	539.605	534.674	536.530	537.014	535.592	537.014
47.5	507.970	510.857	512.462	510.765	512.578	510.765	512.462	510.857	507.970	510.857
50.0	480.348	484.699	488.393	486.855	485.550	486.855	488.393	484.699	480.348	484.699
52.5	454.196	455.041	455.312	456.076	454.621	456.076	455.312	455.041	454.196	455.041
55.0	428.043	425.383	422.231	425.296	423.691	425.296	422.231	425.383	428.043	425.383
57.5	397.451	390.972	393.177	392.553	392.360	392.553	393.177	390.972	397.451	390.972
60.0	366.860	356.562	364.124	359.811	361.029	359.811	364.124	356.562	366.860	356.562
62.5	331.115	326.073	329.506	327.915	328.490	327.915	329.506	326.073	331.115	326.073
65.0	295.370	295.583	294.887	296.018	295.950	296.018	294.887	295.583	295.370	295.583
67.5	264.059	263.082	261.168	263.169	262.686	263.169	261.168	263.082	264.059	263.082
70.0	232.747	230.581	227.448	230.320	229.421	230.320	227.448	230.581	232.747	230.581
72.5	199.778	200.198	197.539	198.303	197.322	198.303	197.539	200.198	199.778	200.198
75.0	166.808	169.815	167.629	166.285	165.222	166.285	167.629	169.815	166.808	169.815
77.5	136.091	139.790	136.275	136.661	137.145	136.661	136.275	139.790	136.091	139.790
80.0	105.374	109.764	104.920	107.037	109.068	107.037	104.920	109.764	105.374	109.764
82.5	77.510	80.218	77.269	78.719	79.609	78.719	77.269	80.218	77.510	80.218
85.0	49.646	50.671	49.617	50.400	50.149	50.400	49.617	50.671	49.646	50.671
87.5	30.519	31.239	30.340	30.881	30.567	30.881	30.340	31.239	30.519	31.239
90.0	11.391	11.807	11.062	11.362	10.985	11.362	11.062	11.807	11.391	11.807

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	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126	3056.126
2.5	3033.102	3035.945	3036.815	3035.945	3033.102	3055.493	3047.680
5.0	3010.078	3015.764	3017.504	3015.764	3010.078	3054.859	3039.233
7.5	2952.556	2941.184	2957.995	2941.184	2952.556	2960.519	2950.593
10.0	2895.034	2866.604	2898.486	2866.604	2895.034	2866.178	2861.953
12.5	2795.457	2787.025	2788.461	2787.025	2795.457	2770.034	2784.429
15.0	2695.880	2707.445	2678.435	2707.445	2695.880	2673.890	2706.904
17.5	2595.196	2598.895	2598.406	2598.895	2595.196	2574.154	2605.727
20.0	2494.512	2490.344	2518.377	2490.344	2494.512	2474.418	2504.549
22.5	2426.116	2416.905	2438.058	2416.905	2426.116	2411.152	2421.151

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25.0	2357.720	2343.466	2357.739	2343.466	2357.720	2347.886	2337.752
27.5	2289.779	2279.514	2286.984	2279.514	2289.779	2287.328	2277.252
30.0	2221.837	2215.561	2216.229	2215.561	2221.837	2226.769	2216.751
32.5	1991.827	1986.160	1988.414	1986.160	1991.827	1992.982	1985.063
35.0	1761.816	1756.759	1760.598	1756.759	1761.816	1759.195	1753.374
37.5	1276.837	1273.041	1277.166	1273.041	1276.837	1276.624	1271.658
40.0	791.857	789.323	793.733	789.323	791.857	794.052	789.942
42.5	664.194	661.999	666.669	661.999	664.194	665.533	662.767
45.0	536.530	534.674	539.605	534.674	536.530	537.014	535.592
47.5	512.462	510.765	512.578	510.765	512.462	510.857	507.970
50.0	488.393	486.855	485.550	486.855	488.393	484.699	480.348
52.5	455.312	456.076	454.621	456.076	455.312	455.041	454.196
55.0	422.231	425.296	423.691	425.296	422.231	425.383	428.043
57.5	393.177	392.553	392.360	392.553	393.177	390.972	397.451
60.0	364.124	359.811	361.029	359.811	364.124	356.562	366.860
62.5	329.506	327.915	328.490	327.915	329.506	326.073	331.115
65.0	294.887	296.018	295.950	296.018	294.887	295.583	295.370
67.5	261.168	263.169	262.686	263.169	261.168	263.082	264.059
70.0	227.448	230.320	229.421	230.320	227.448	230.581	232.747
72.5	197.539	198.303	197.322	198.303	197.539	200.198	199.778
75.0	167.629	166.285	165.222	166.285	167.629	169.815	166.808
77.5	136.275	136.661	137.145	136.661	136.275	139.790	136.091
80.0	104.920	107.037	109.068	107.037	104.920	109.764	105.374
82.5	77.269	78.719	79.609	78.719	77.269	80.218	77.510
85.0	49.617	50.400	50.149	50.400	49.617	50.671	49.646
87.5	30.340	30.881	30.567	30.881	30.340	31.239	30.519
90.0	11.062	11.362	10.985	11.362	11.062	11.807	11.391

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1040.01	N.A.	23.10
0-30	2125.35	N.A.	47.30
0-40	3133.33	N.A.	69.70
0-60	3964.52	N.A.	88.20
0-80	4434.27	N.A.	98.70
0-90	4493.84	N.A.	100.00
10-90	4210.44	N.A.	93.70
20-40	2093.32	N.A.	46.60
20-50	2545.14	N.A.	56.60
40-70	1123.69	N.A.	25.00
60-80	469.75	N.A.	10.50
70-80	177.25	N.A.	3.90
80-90	59.58	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	4493.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	283.41
10-20	756.60
20-30	1085.34
30-40	1007.98
40-50	451.81
50-60	379.38
60-70	292.50
70-80	177.25
80-90	59.58
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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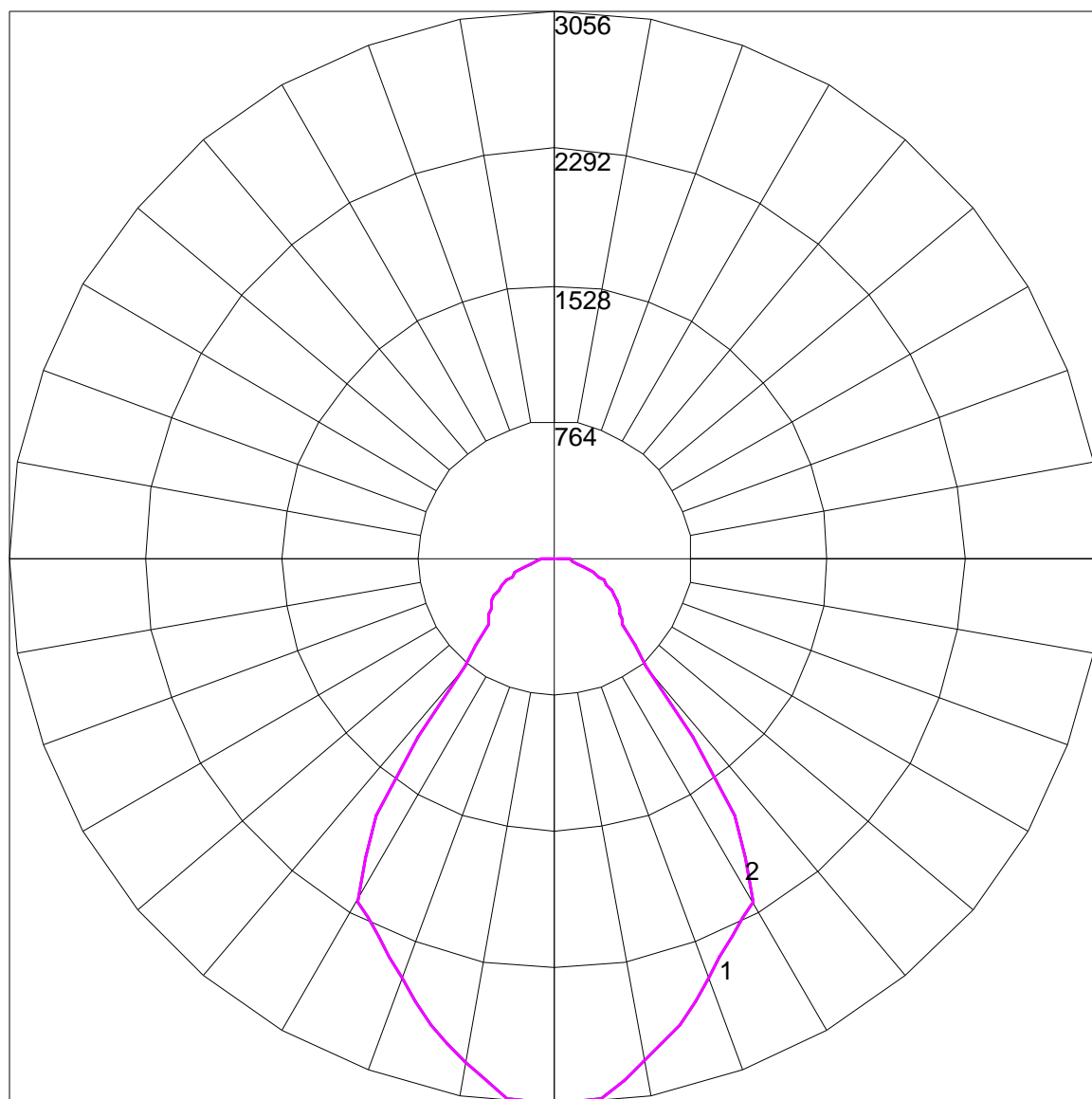
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	66	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	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	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 = 3056.126 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)