

IES INDOOR REPORT

PHOTOMETRIC FILENAME : ALXXX16LEDGV-27L35KEX-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-27L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] ALxxx16LEDGV-27L-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	2080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	18
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	2700	2705	2721
55	2660	2624	2633
65	2492	2488	2497
75	2298	2309	2276
85	2031	2029	2051

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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	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604
2.5	1410.694	1414.311	1403.947	1405.263	1405.666	1405.263	1403.947	1414.311	1410.694	1414.311
5.0	1406.784	1414.018	1393.289	1395.921	1396.727	1395.921	1393.289	1414.018	1406.784	1414.018
7.5	1365.755	1370.350	1366.664	1361.400	1369.182	1361.400	1366.664	1370.350	1365.755	1370.350
10.0	1324.726	1326.682	1340.038	1326.879	1341.636	1326.879	1340.038	1326.682	1324.726	1326.682
12.5	1288.842	1282.180	1293.947	1290.044	1290.708	1290.044	1293.947	1282.180	1288.842	1282.180
15.0	1252.958	1237.677	1247.855	1253.208	1239.780	1253.208	1247.855	1237.677	1252.958	1237.677
17.5	1206.126	1191.512	1201.251	1202.963	1202.737	1202.963	1201.251	1191.512	1206.126	1191.512
20.0	1159.293	1145.346	1154.647	1152.718	1165.694	1152.718	1154.647	1145.346	1159.293	1145.346
22.5	1120.690	1116.062	1122.988	1118.725	1128.516	1118.725	1122.988	1116.062	1120.690	1116.062
25.0	1082.086	1086.777	1091.329	1084.732	1091.338	1084.732	1091.329	1086.777	1082.086	1086.777
27.5	1054.082	1058.746	1059.881	1055.130	1058.588	1055.130	1059.881	1058.746	1054.082	1058.746
30.0	1026.078	1030.715	1028.433	1025.528	1025.837	1025.528	1028.433	1030.715	1026.078	1030.715
32.5	918.836	922.501	921.967	919.344	920.387	919.344	921.967	922.501	918.836	922.501
35.0	811.593	814.287	815.500	813.159	814.936	813.159	815.500	814.287	811.593	814.287
37.5	588.619	590.917	591.016	589.259	591.168	589.259	591.016	590.917	588.619	590.917
40.0	365.644	367.547	366.531	365.358	367.399	365.358	366.531	367.547	365.644	367.547
42.5	306.778	308.059	307.439	306.423	308.585	306.423	307.439	308.059	306.778	308.059
45.0	247.912	248.570	248.346	247.487	249.770	247.487	248.346	248.570	247.912	248.570
47.5	235.127	236.463	237.206	236.420	237.260	236.420	237.206	236.463	235.127	236.463
50.0	222.341	224.355	226.065	225.353	224.749	225.353	226.065	224.355	222.341	224.355
52.5	210.236	210.627	210.753	211.106	210.433	211.106	210.753	210.627	210.236	210.627
55.0	198.130	196.899	195.440	196.859	196.116	196.859	195.440	196.899	198.130	196.899
57.5	183.970	180.971	181.992	181.703	181.613	181.703	181.992	180.971	183.970	180.971
60.0	169.810	165.044	168.544	166.547	167.111	166.547	168.544	165.044	169.810	165.044
62.5	153.265	150.931	152.520	151.783	152.050	151.783	152.520	150.931	153.265	150.931
65.0	136.719	136.818	136.496	137.019	136.988	137.019	136.496	136.818	136.719	136.818
67.5	122.226	121.774	120.888	121.814	121.591	121.814	120.888	121.774	122.226	121.774
70.0	107.733	106.730	105.280	106.609	106.193	106.609	105.280	106.730	107.733	106.730
72.5	92.472	92.667	91.436	91.789	91.335	91.789	91.436	92.667	92.472	92.667
75.0	77.211	78.603	77.591	76.969	76.477	76.969	77.591	78.603	77.211	78.603
77.5	62.993	64.705	63.078	63.257	63.481	63.257	63.078	64.705	62.993	64.705
80.0	48.775	50.807	48.565	49.545	50.485	49.545	48.565	50.807	48.775	50.807
82.5	35.878	37.131	35.766	36.437	36.849	36.437	35.766	37.131	35.878	37.131
85.0	22.980	23.454	22.966	23.329	23.213	23.329	22.966	23.454	22.980	23.454
87.5	14.127	14.460	14.044	14.294	14.149	14.294	14.044	14.460	14.127	14.460
90.0	5.273	5.465	5.121	5.259	5.085	5.259	5.121	5.465	5.273	5.465

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	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604	1414.604
2.5	1403.947	1405.263	1405.666	1405.263	1403.947	1414.311	1410.694
5.0	1393.289	1395.921	1396.727	1395.921	1393.289	1414.018	1406.784
7.5	1366.664	1361.400	1369.182	1361.400	1366.664	1370.350	1365.755
10.0	1340.038	1326.879	1341.636	1326.879	1340.038	1326.682	1324.726
12.5	1293.947	1290.044	1290.708	1290.044	1293.947	1282.180	1288.842
15.0	1247.855	1253.208	1239.780	1253.208	1247.855	1237.677	1252.958
17.5	1201.251	1202.963	1202.737	1202.963	1201.251	1191.512	1206.126
20.0	1154.647	1152.718	1165.694	1152.718	1154.647	1145.346	1159.293
22.5	1122.988	1118.725	1128.516	1118.725	1122.988	1116.062	1120.690

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25.0	1091.329	1084.732	1091.338	1084.732	1091.329	1086.777	1082.086
27.5	1059.881	1055.130	1058.588	1055.130	1059.881	1058.746	1054.082
30.0	1028.433	1025.528	1025.837	1025.528	1028.433	1030.715	1026.078
32.5	921.967	919.344	920.387	919.344	921.967	922.501	918.836
35.0	815.500	813.159	814.936	813.159	815.500	814.287	811.593
37.5	591.016	589.259	591.168	589.259	591.016	590.917	588.619
40.0	366.531	365.358	367.399	365.358	366.531	367.547	365.644
42.5	307.439	306.423	308.585	306.423	307.439	308.059	306.778
45.0	248.346	247.487	249.770	247.487	248.346	248.570	247.912
47.5	237.206	236.420	237.260	236.420	237.206	236.463	235.127
50.0	226.065	225.353	224.749	225.353	226.065	224.355	222.341
52.5	210.753	211.106	210.433	211.106	210.753	210.627	210.236
55.0	195.440	196.859	196.116	196.859	195.440	196.899	198.130
57.5	181.992	181.703	181.613	181.703	181.992	180.971	183.970
60.0	168.544	166.547	167.111	166.547	168.544	165.044	169.810
62.5	152.520	151.783	152.050	151.783	152.520	150.931	153.265
65.0	136.496	137.019	136.988	137.019	136.496	136.818	136.719
67.5	120.888	121.814	121.591	121.814	120.888	121.774	122.226
70.0	105.280	106.609	106.193	106.609	105.280	106.730	107.733
72.5	91.436	91.789	91.335	91.789	91.436	92.667	92.472
75.0	77.591	76.969	76.477	76.969	77.591	78.603	77.211
77.5	63.078	63.257	63.481	63.257	63.078	64.705	62.993
80.0	48.565	49.545	50.485	49.545	48.565	50.807	48.775
82.5	35.766	36.437	36.849	36.437	35.766	37.131	35.878
85.0	22.966	23.329	23.213	23.329	22.966	23.454	22.980
87.5	14.044	14.294	14.149	14.294	14.044	14.460	14.127
90.0	5.121	5.259	5.085	5.259	5.121	5.465	5.273

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	481.39	N.A.	23.10
0-30	983.77	N.A.	47.30
0-40	1450.34	N.A.	69.70
0-60	1835.08	N.A.	88.20
0-80	2052.51	N.A.	98.70
0-90	2080.09	N.A.	100.00
10-90	1948.91	N.A.	93.70
20-40	968.95	N.A.	46.60
20-50	1178.08	N.A.	56.60
40-70	520.13	N.A.	25.00
60-80	217.43	N.A.	10.50
70-80	82.04	N.A.	3.90
80-90	27.58	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	2080.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.18
10-20	350.21
20-30	502.38
30-40	466.57
40-50	209.13
50-60	175.60
60-70	135.39
70-80	82.04
80-90	27.58
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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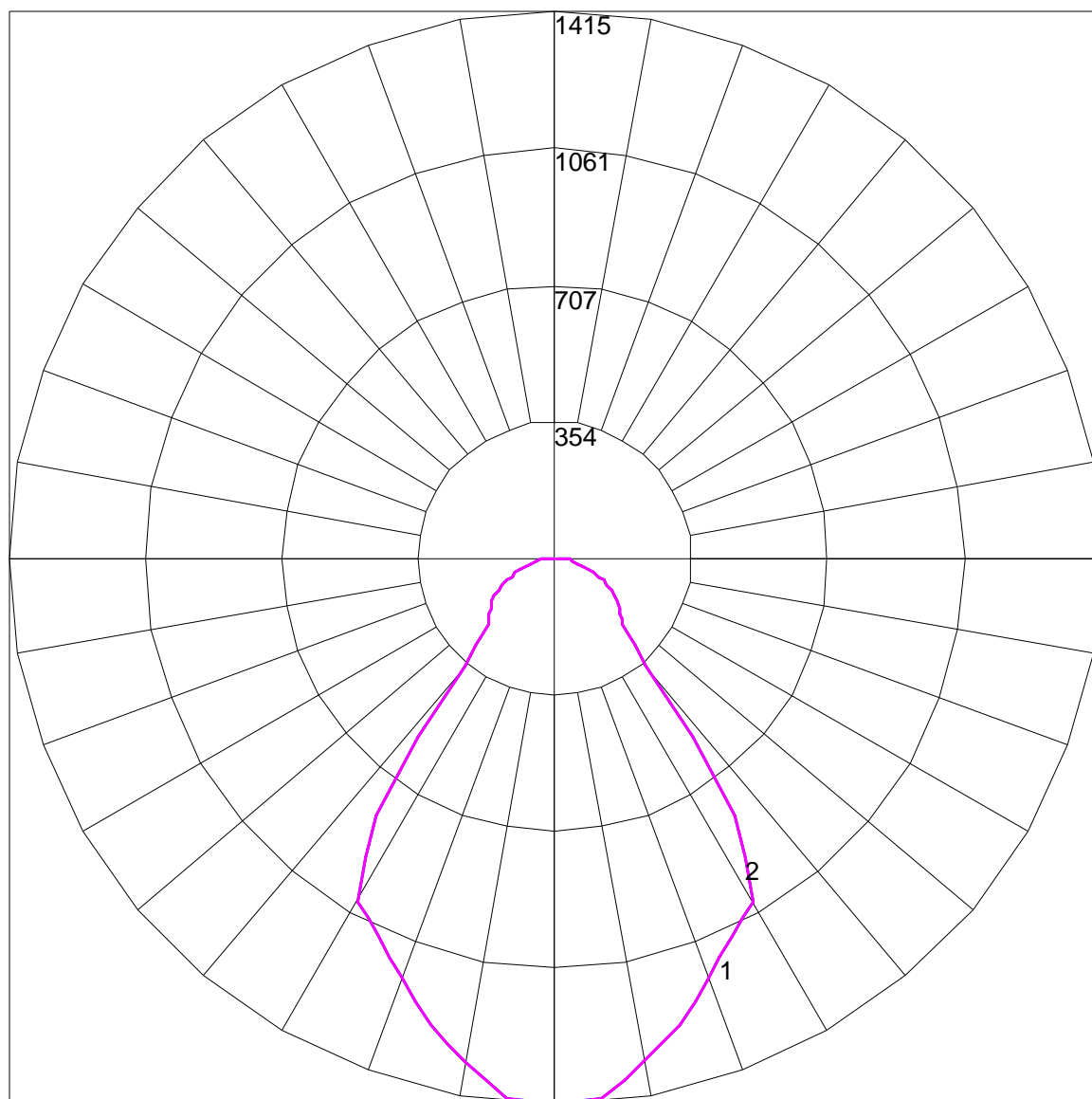
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1414.604 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)