

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALOCTV22LEDGV-220L40KE1-AL22.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB]Intertek
 [ISSUE DATE] 6/ 6/2014
 [UPDATE] 1/ 6/2016
 [LAB-REF LUMCAT] 1405080952-001A_M-220L
 [MANUFAC]SPECTRUM
 [LUMCAT] ALOCTV22LEDGV-220L-40K-AL22
 [LUMINAIRE] 22" Diam. ALOCT Series, Spun Aluminum Reflector, Open Aperture
 [OTHER] Matte White, inner reflector surface
 [LAMP] N/A
 [LAMPCAT] N/A
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] CCT Output Multipliers: 50K x 1.03, 35K x 0.97, 30K x 0.95, 27K x 0.93
 [OTHER] This report updated by Spectrum Lighting, scaled from 220W-40K report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	174
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28024	27034	27181
55	13501	15818	12939
65	8043	8060	8088
75	7483	7537	7571
85	5548	5444	5108

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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>
0.0	8523.060	8523.060	8523.060	8523.060	8523.060
2.5	8541.118	8541.561	8534.302	8533.948	8553.422
5.0	8581.218	8585.644	8567.763	8568.117	8583.608
7.5	8599.453	8574.579	8571.923	8576.083	8592.194
10.0	8633.887	8548.996	8523.414	8569.444	8629.284
12.5	8651.148	8533.328	8450.916	8553.334	8636.543
15.0	8630.700	8479.862	8385.854	8518.014	8613.085
17.5	8593.168	8364.963	8256.526	8441.887	8569.887
20.0	8461.539	8177.301	8074.972	8257.677	8430.025
22.5	8146.230	7910.147	7846.502	7942.192	8131.270
25.0	7706.286	7623.431	7596.433	7629.805	7721.600
27.5	7359.996	7375.929	7378.142	7364.245	7373.097
30.0	7071.066	7122.585	7157.285	7111.431	7081.689
32.5	6857.379	6876.057	6898.895	6877.562	6843.570
35.0	6673.789	6666.618	6650.685	6664.848	6654.403
37.5	6422.392	6429.031	6428.411	6402.740	6367.244
40.0	6034.586	6098.231	6190.469	5990.060	5921.103
42.5	5446.636	5547.283	5624.295	5370.774	5293.939
45.0	4846.736	4762.199	4675.449	4582.415	4700.943
47.5	4229.751	3884.169	3720.761	3770.687	4018.366
50.0	3361.282	3232.131	3159.810	3094.748	3071.644
52.5	2410.754	2688.087	2883.451	2475.904	2254.250
55.0	1893.974	2023.921	2219.108	1894.771	1815.191
57.5	1448.895	1350.638	1446.063	1308.237	1368.342
60.0	1031.435	993.017	985.847	984.519	1023.026
62.5	907.153	905.914	909.366	903.258	908.835
65.0	831.380	828.636	833.150	830.052	835.983
67.5	743.391	742.594	747.197	747.197	752.154
70.0	654.074	656.199	659.828	662.218	664.343
72.5	563.253	567.059	567.856	574.318	573.698
75.0	473.671	477.300	477.123	483.850	479.247
77.5	386.655	388.249	385.151	393.560	387.541
80.0	299.198	299.021	295.834	300.791	294.860
82.5	209.438	208.642	205.986	206.694	201.560
85.0	118.263	116.581	116.050	112.332	108.880
87.5	37.267	35.762	37.267	33.461	32.221
90.0	1.505	0.177	3.098	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3213.27	N.A.	18.10
0-30	6744.41	N.A.	38.00
0-40	10900.52	N.A.	61.50
0-60	16271.5	N.A.	91.80
0-80	17596.65	N.A.	99.20
0-90	17734.32	N.A.	100.00
10-90	16916.32	N.A.	95.40
20-40	7687.25	N.A.	43.30
20-50	11270.42	N.A.	63.60
40-70	6190.96	N.A.	34.90
60-80	1325.15	N.A.	7.50
70-80	505.18	N.A.	2.80
80-90	137.66	N.A.	0.80
90-110	0.14	N.A.	0.00
90-120	0.14	N.A.	0.00
90-130	0.14	N.A.	0.00
90-150	0.14	N.A.	0.00
90-180	0.14	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17734.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	818.00
10-20	2395.27
20-30	3531.14
30-40	4156.11
40-50	3583.17
50-60	1787.81
60-70	819.97
70-80	505.18
80-90	137.66
90-100	0.14
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

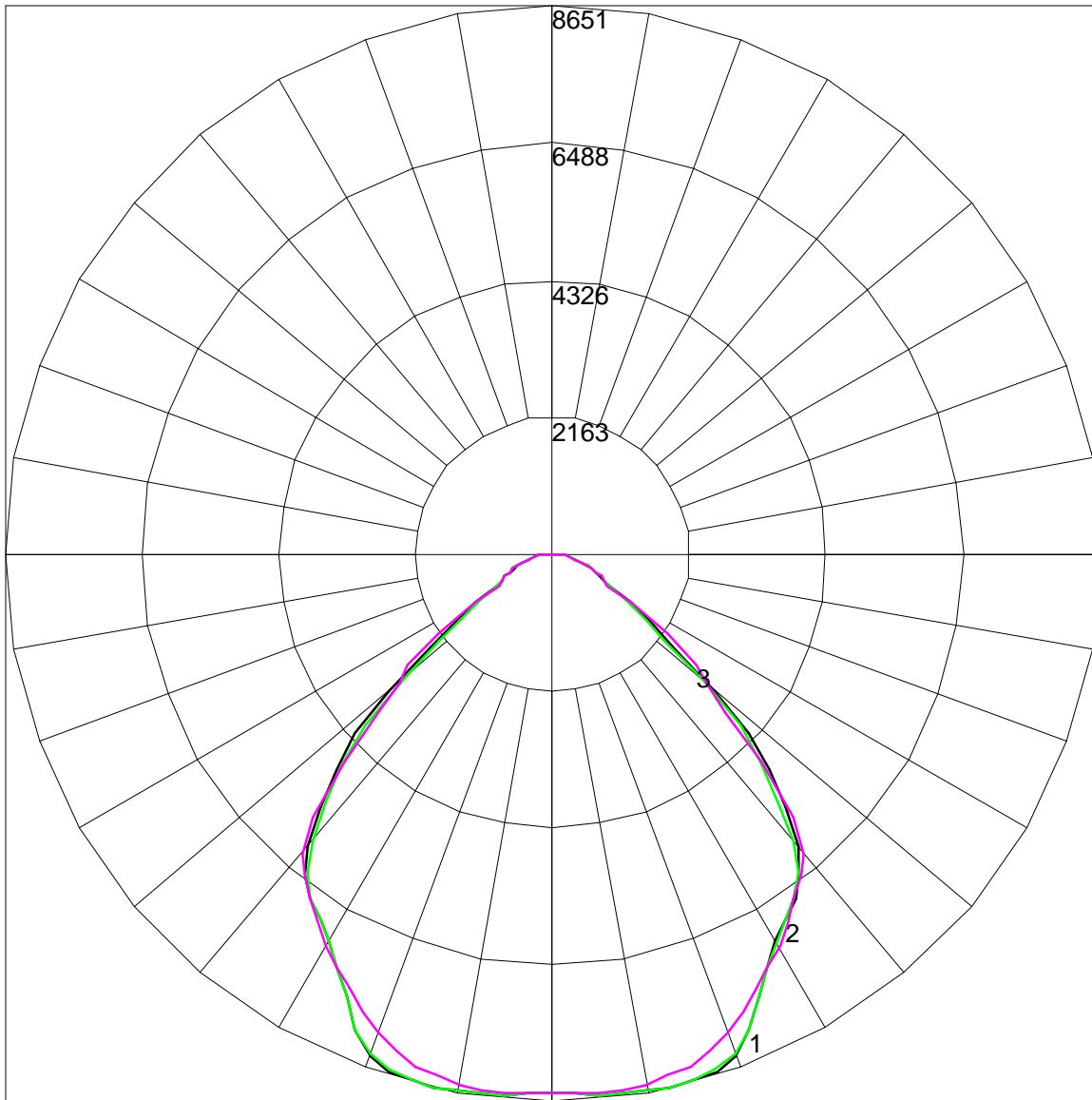
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	38	61	50	42	38	49	42	37	47	41	37	47	41	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 8651.148 Located At Horizontal Angle = 0, Vertical Angle = 12.5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)