

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : GC2208LEDGV-220L40KE1-FO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 1308201303-001\_M-GEN2-220L-40K  
 [TESTLAB] INTERTEK  
 [ISSUEDATE] 8/20/2013  
 [UPDATE] 5/23/2016  
 [MANUFAC] SPECTRUM LIGHTING  
 [LUMCAT] GC2208LEDGV-220L-40K-E1-FO  
 [LUMINAIRE] LED LAY-IN 2'X2' LOW/HIGH BAY WITH 20" DIAM. FLUSH WHITE LENS  
 [OTHER] ACTIVE COOLING  
 [LAMP] N/A  
 [LAMPCAT] N/A  
 [OTHER] CCT OUTPUT MULTIPLIERS: 50K x 1.03, 35K x 0.97, 30K x 0.95, 27K x 0.93  
 [OTHER] GYMNASIUM VERSION W/ CLEAR POLYCARBONATE UNDERLAY MULTIPLIER: 0.92  
 [OTHER] TOTAL LUMINAIRE WATTS IS APPROXIMATE  
 [OTHER] THIS REPORT UPDATED BY SPECTRUM LIGHTING, SCALED FROM GEN1: LEDGV-148W-35K

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	172.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.14
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	19663	19880	20373
55	18192	18277	18609
65	16614	16503	16531
75	12532	12377	12444
85	4558	3672	4118

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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	7875.352	7875.352	7875.352	7875.352	7875.352
2.5	7861.336	7864.424	7859.435	7859.198	7860.980
5.0	7806.222	7811.211	7807.053	7806.341	7806.103
7.5	7714.880	7717.731	7716.305	7715.118	7717.018
10.0	7582.559	7583.272	7583.985	7580.540	7583.747
12.5	7414.604	7414.010	7416.267	7414.367	7419.237
15.0	7214.935	7211.490	7218.380	7219.924	7224.081
17.5	6977.969	6969.298	6981.770	6985.927	6994.361
20.0	6693.847	6681.850	6698.955	6708.457	6720.929
22.5	6359.957	6346.416	6371.716	6382.762	6401.292
25.0	5991.620	5978.554	6012.169	6022.978	6052.316
27.5	5621.976	5605.704	5642.525	5657.729	5695.145
30.0	5256.847	5234.991	5278.227	5299.607	5347.001
32.5	4896.112	4874.138	4919.036	4948.969	5000.876
35.0	4548.562	4527.894	4580.988	4610.446	4667.104
37.5	4223.461	4205.169	4260.164	4289.502	4349.961
40.0	3921.403	3906.437	3961.907	3991.008	4050.161
42.5	3647.140	3635.262	3688.832	3714.607	3775.541
45.0	3400.672	3390.575	3438.206	3462.793	3523.490
47.5	3172.020	3166.556	3206.347	3228.322	3285.574
50.0	2954.653	2954.653	2988.149	3004.540	3053.596
52.5	2749.638	2754.152	2771.494	2790.142	2830.052
55.0	2552.107	2558.878	2563.985	2580.258	2610.666
57.5	2357.070	2363.485	2356.477	2371.443	2393.180
60.0	2153.481	2157.045	2144.929	2157.401	2170.229
62.5	1940.034	1938.371	1925.068	1936.708	1940.034
65.0	1717.321	1711.976	1705.800	1713.402	1708.769
67.5	1483.681	1475.248	1475.010	1481.543	1471.922
70.0	1249.803	1236.975	1244.102	1246.715	1239.469
72.5	1014.262	997.990	1012.124	1013.669	1011.293
75.0	793.332	764.943	783.473	785.611	787.749
77.5	595.801	547.932	566.699	569.194	573.707
80.0	399.576	356.934	369.881	372.969	379.383
82.5	229.008	197.531	202.282	204.539	213.685
85.0	97.162	79.345	78.276	78.514	87.778
87.5	17.579	11.403	9.978	9.384	14.016
90.0	0.000	0.000	0.000	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	2763.24	N.A.	17.30
0-30	5522.07	N.A.	34.50
0-40	8393.23	N.A.	52.40
0-60	13356.29	N.A.	83.40
0-80	15877.32	N.A.	99.20
0-90	16009.47	N.A.	100.00
10-90	15271.3	N.A.	95.40
20-40	5630.00	N.A.	35.20
20-50	8293.15	N.A.	51.80
40-70	6650.38	N.A.	41.50
60-80	2521.03	N.A.	15.70
70-80	833.71	N.A.	5.20
80-90	132.15	N.A.	0.80
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	16009.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	738.17
10-20	2025.07
20-30	2758.83
30-40	2871.17
40-50	2663.15
50-60	2299.9
60-70	1687.32
70-80	833.72
80-90	132.15
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

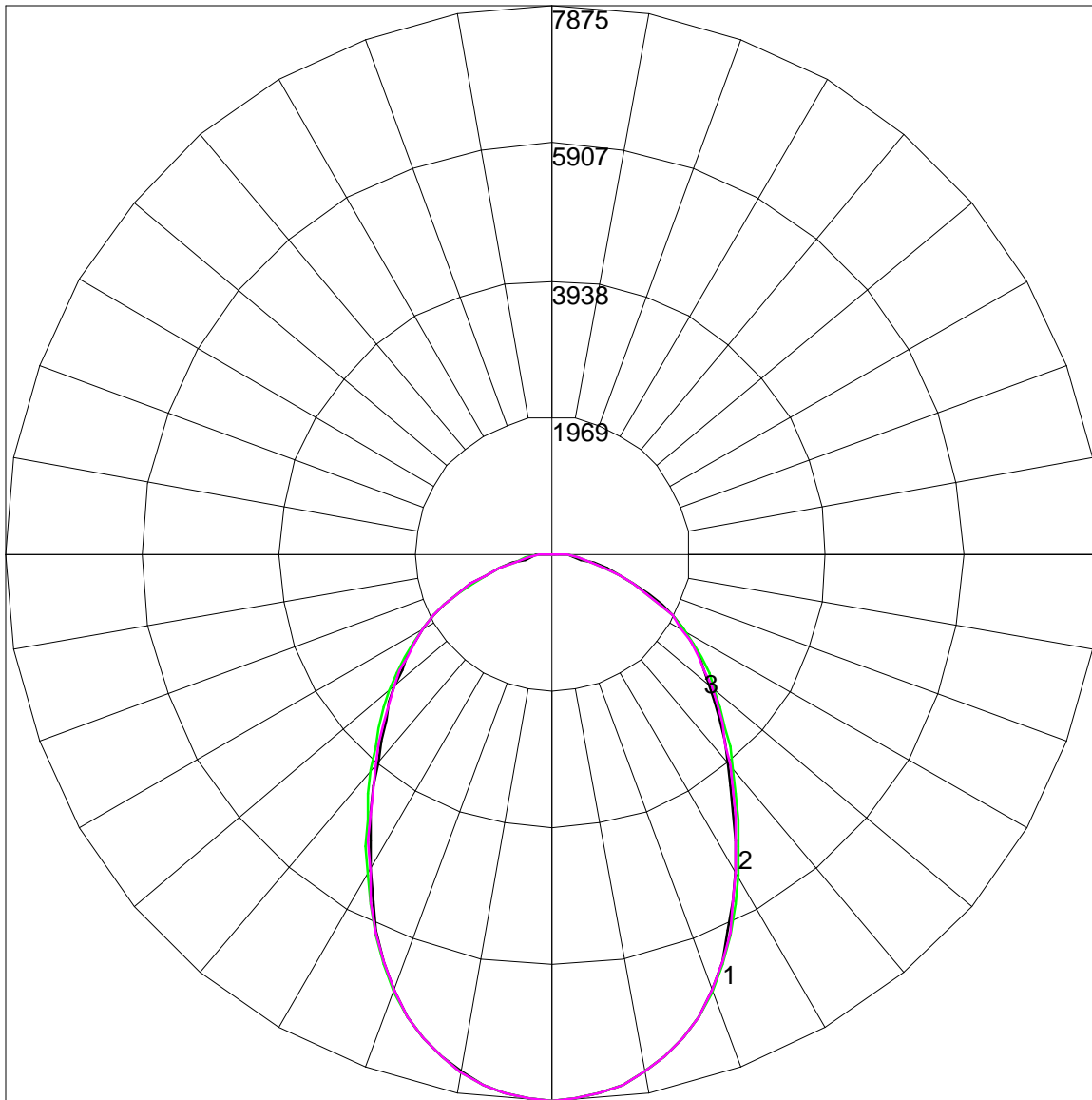
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	80	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	58	52	63	56	51	61	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

POLAR GRAPH



Maximum Candela = 7875.352 Located At Horizontal Angle = 0, Vertical Angle = 0

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