

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GC2208LEDGV-150L40KE1-FO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1308201303-001_M-GEN2-150L-40K
 [TESTLAB] INTERTEK
 [ISSUE DATE] 8/20/2013
 [UPDATE] 5/23/2016
 [MANUFAC] SPECTRUM LIGHTING
 [LUMCAT] GC2208LEDGV-150L-40K-E1-FO
 [LUMINAIRE] LED LAY-IN 2'X2' LOW/HIGH BAY WITH 20" DIAM. FLUSH WHITE LENS
 [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-35

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	112
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	13300	13446	13780
55	12305	12362	12587
65	11237	11162	11181
75	8477	8371	8417
85	3083	2484	2785

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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	5326.703	5326.703	5326.703	5326.703	5326.703
2.5	5317.222	5319.311	5315.937	5315.776	5316.981
5.0	5279.945	5283.319	5280.507	5280.025	5279.864
7.5	5218.163	5220.091	5219.127	5218.324	5219.609
10.0	5128.664	5129.146	5129.629	5127.299	5129.468
12.5	5015.064	5014.662	5016.188	5014.903	5018.197
15.0	4880.012	4877.682	4882.342	4883.386	4886.198
17.5	4719.734	4713.869	4722.305	4725.117	4730.821
20.0	4527.561	4519.446	4531.015	4537.442	4545.878
22.5	4301.725	4292.566	4309.679	4317.150	4329.683
25.0	4052.591	4043.753	4066.489	4073.800	4093.644
27.5	3802.572	3791.566	3816.471	3826.755	3852.062
30.0	3555.607	3540.825	3570.068	3584.530	3616.585
32.5	3311.615	3296.752	3327.120	3347.366	3382.475
35.0	3076.540	3062.561	3098.473	3118.397	3156.719
37.5	2856.649	2844.277	2881.474	2901.318	2942.211
40.0	2652.345	2642.222	2679.741	2699.424	2739.433
42.5	2466.840	2458.806	2495.039	2512.473	2553.687
45.0	2300.134	2293.305	2325.522	2342.152	2383.206
47.5	2145.480	2141.784	2168.698	2183.561	2222.285
50.0	1998.457	1998.457	2021.113	2032.200	2065.381
52.5	1859.791	1862.844	1874.573	1887.187	1914.181
55.0	1726.185	1730.765	1734.219	1745.226	1765.793
57.5	1594.267	1598.605	1593.865	1603.988	1618.690
60.0	1456.564	1458.974	1450.780	1459.215	1467.892
62.5	1312.193	1311.068	1302.070	1309.944	1312.193
65.0	1161.556	1157.940	1153.763	1158.904	1155.771
67.5	1003.527	997.823	997.662	1002.081	995.573
70.0	845.337	836.661	841.481	843.249	838.348
72.5	686.023	675.017	684.577	685.622	684.015
75.0	536.591	517.390	529.923	531.369	532.815
77.5	402.985	370.608	383.302	384.989	388.042
80.0	270.264	241.422	250.179	252.268	256.606
82.5	154.896	133.605	136.819	138.345	144.532
85.0	65.718	53.667	52.944	53.105	59.371
87.5	11.890	7.713	6.749	6.347	9.480
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	1868.99	N.A.	17.30
0-30	3735.00	N.A.	34.50
0-40	5676.99	N.A.	52.40
0-60	9033.88	N.A.	83.40
0-80	10739.04	N.A.	99.20
0-90	10828.43	N.A.	100.00
10-90	10329.15	N.A.	95.40
20-40	3808.00	N.A.	35.20
20-50	5609.29	N.A.	51.80
40-70	4498.16	N.A.	41.50
60-80	1705.17	N.A.	15.70
70-80	563.91	N.A.	5.20
80-90	89.38	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	10828.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	499.28
10-20	1369.71
20-30	1866.01
30-40	1941.99
40-50	1801.29
50-60	1555.6
60-70	1141.26
70-80	563.91
80-90	89.38
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

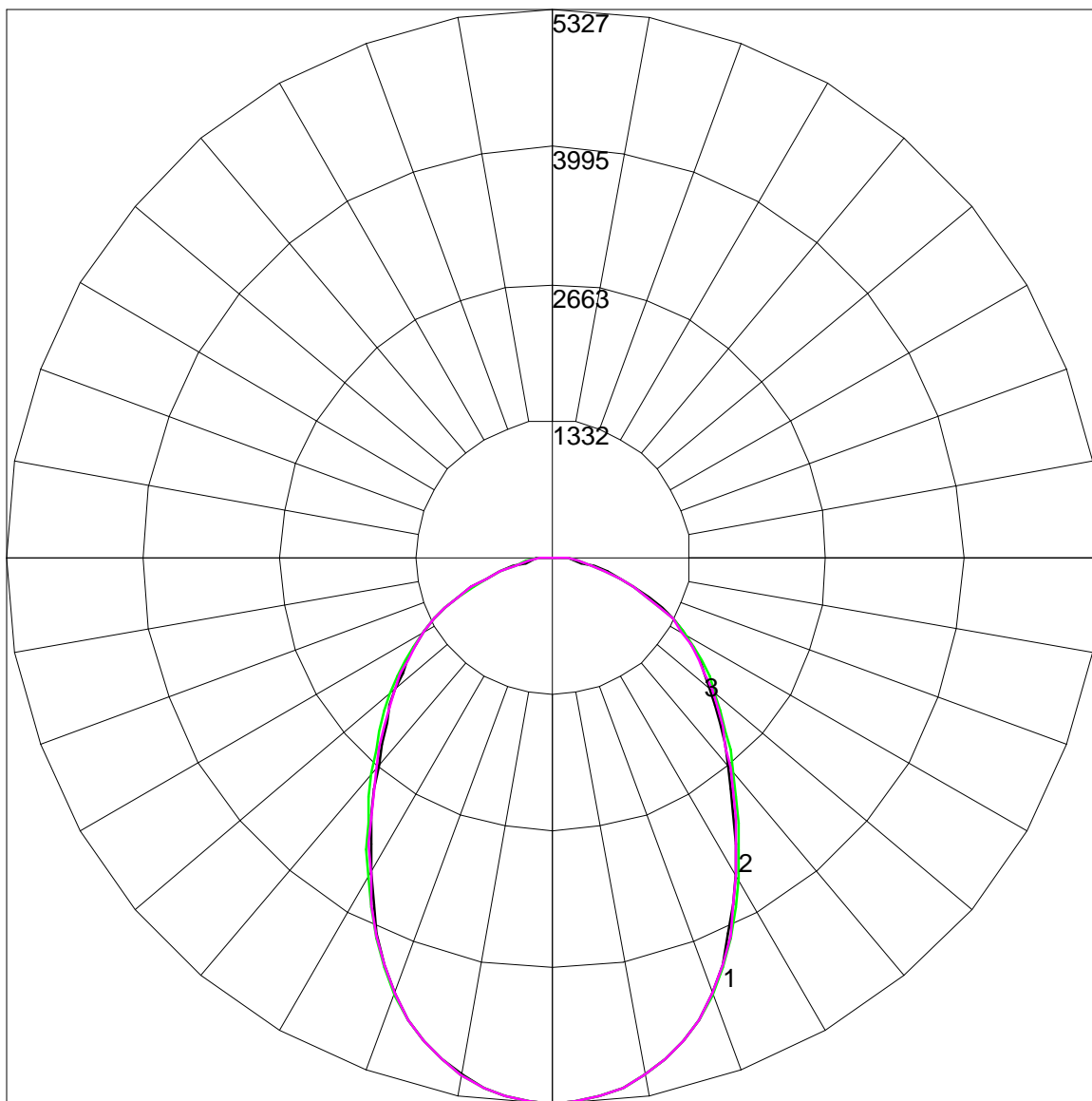
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5326.703 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)