

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GC2208LEDGV-240L40KE1-FO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1308201303-001_M-GEN2-240L-40K
 [TESTLAB] INTERTEK
 [ISSUE DATE] 8/20/2013
 [UPDATE] 5/23/2016
 [MANUFAC] SPECTRUM LIGHTING
 [LUMCAT] GC2208LEDGV-240L-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	17342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	188.5
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	21300	21535	22070
55	19707	19798	20159
65	17997	17877	17908
75	13576	13407	13480
85	4937	3978	4461

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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	8531.078	8531.078	8531.078	8531.078	8531.078
2.5	8515.895	8519.241	8513.837	8513.579	8515.509
5.0	8456.192	8461.597	8457.093	8456.321	8456.064
7.5	8357.245	8360.333	8358.789	8357.503	8359.561
10.0	8213.907	8214.679	8215.451	8211.719	8215.194
12.5	8031.967	8031.324	8033.769	8031.710	8036.986
15.0	7815.673	7811.942	7819.405	7821.077	7825.581
17.5	7558.977	7549.584	7563.094	7567.597	7576.733
20.0	7251.198	7238.202	7256.731	7267.024	7280.535
22.5	6889.507	6874.838	6902.245	6914.211	6934.284
25.0	6490.501	6476.347	6512.761	6524.470	6556.251
27.5	6090.080	6072.452	6112.340	6128.809	6169.341
30.0	5694.548	5670.873	5717.709	5740.869	5792.209
32.5	5303.777	5279.973	5328.611	5361.036	5417.264
35.0	4927.289	4904.900	4962.416	4994.326	5055.702
37.5	4575.119	4555.304	4614.878	4646.660	4712.153
40.0	4247.911	4231.699	4291.788	4323.312	4387.390
42.5	3950.812	3937.945	3995.976	4023.897	4089.905
45.0	3683.822	3672.885	3724.482	3751.117	3816.867
47.5	3436.132	3430.214	3473.318	3497.122	3559.141
50.0	3200.666	3200.666	3236.951	3254.708	3307.848
52.5	2978.582	2983.471	3002.257	3022.458	3065.691
55.0	2764.604	2771.938	2777.471	2795.098	2828.038
57.5	2553.328	2560.276	2552.684	2568.897	2592.443
60.0	2332.787	2336.647	2323.523	2337.033	2350.930
62.5	2101.567	2099.766	2085.355	2097.964	2101.567
65.0	1860.311	1854.521	1847.830	1856.065	1851.047
67.5	1607.217	1598.081	1597.824	1604.901	1594.479
70.0	1353.866	1339.969	1347.690	1350.520	1342.671
72.5	1098.713	1081.085	1096.397	1098.070	1095.496
75.0	859.387	828.635	848.707	851.023	853.339
77.5	645.409	593.555	613.885	616.587	621.476
80.0	432.846	386.653	400.678	404.024	410.972
82.5	248.076	213.978	219.125	221.570	231.477
85.0	105.252	85.952	84.794	85.051	95.087
87.5	19.043	12.352	10.808	10.165	15.183
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	2993.31	N.A.	17.30
0-30	5981.85	N.A.	34.50
0-40	9092.08	N.A.	52.40
0-60	14468.38	N.A.	83.40
0-80	17199.32	N.A.	99.20
0-90	17342.47	N.A.	100.00
10-90	16542.83	N.A.	95.40
20-40	6098.77	N.A.	35.20
20-50	8983.66	N.A.	51.80
40-70	7204.11	N.A.	41.50
60-80	2730.94	N.A.	15.70
70-80	903.13	N.A.	5.20
80-90	143.15	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	17342.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	799.63
10-20	2193.68
20-30	2988.54
30-40	3110.23
40-50	2884.89
50-60	2491.4
60-70	1827.81
70-80	903.13
80-90	143.15
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

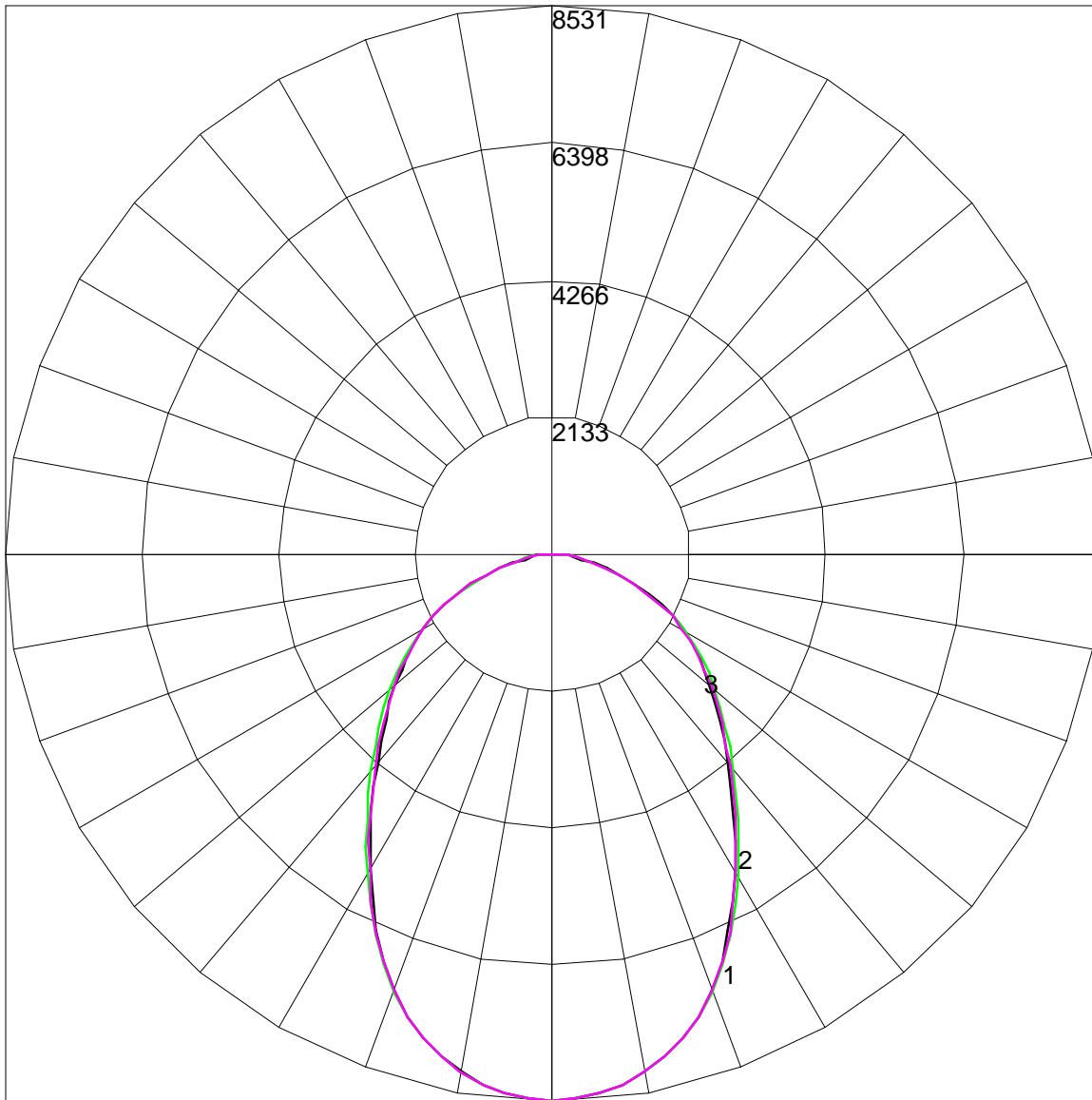
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 8531.078 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)