



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR48L37W4800LDMV50K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] LCZP19030519  
 [TESTLAB] LCTECH  
 [TESTDATE] 2019/3/28  
 [ISSUEDATE] 2019/3/28  
 [MANUFAC] Savegreen  
 [LUMCAT] GSR48L37W4800LDMV50K  
 [LUMINAIRE] Direct Linear Ambient Luminaires  
 [LAMPCAT]  
 [LAMP]

### CHARACTERISTICS

Lumens Per Lamp	4812.42 (1 lamp)
Total Lamp Lumens	4812.42
Luminaire Lumens	4812
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	36.38
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.07 m
Luminous Height	0.03 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14779	12405	12144
55	13942	11377	11176
65	12570	10143	10179
75	9979	8626	8943
85	4673	7058	7835

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
0	1287.464	1287.464	1287.464	1287.464	1287.464	1287.464	1287.464
5	1278.368	1281.475	1282.323	1285.593	1283.088	1285.368	1294.951
10	1259.179	1262.687	1266.095	1272.860	1272.466	1274.249	1283.875
15	1229.762	1234.222	1239.374	1248.343	1251.642	1255.459	1266.486
20	1187.583	1192.985	1201.445	1216.054	1221.355	1227.072	1237.315
25	1133.094	1141.864	1154.511	1173.920	1180.844	1190.088	1200.196
30	1073.083	1079.957	1098.534	1120.328	1131.943	1143.519	1153.221
35	1001.261	1012.290	1032.529	1062.298	1075.339	1090.589	1100.224
40	922.378	936.571	960.430	994.098	1013.487	1030.284	1043.282
45	835.847	853.955	882.377	919.966	946.333	965.389	979.357
50	745.560	765.641	796.999	841.404	870.449	893.454	906.612
55	646.312	670.480	709.941	759.404	790.888	819.682	829.894
60	541.678	570.866	619.198	671.720	709.182	739.757	753.198
65	436.773	467.805	520.745	581.260	623.430	655.887	667.923
70	329.741	365.427	425.273	487.453	535.380	569.829	580.277
75	220.355	262.532	330.446	397.902	446.262	481.613	491.748
80	120.202	171.094	241.732	310.135	361.898	397.936	408.774
85	40.867	93.727	166.795	236.770	289.531	323.830	334.393
90	6.019	52.263	124.371	192.110	244.010	278.674	290.363
95	4.028	39.671	106.748	171.784	222.921	256.345	267.264
100	3.756	32.460	92.254	153.338	201.905	234.058	245.554
105	3.575	27.826	80.414	136.266	181.631	212.063	223.172
110	3.394	24.028	70.505	121.181	162.837	191.286	201.142
115	3.258	21.203	62.034	107.398	145.010	170.555	179.739
120	3.349	19.033	54.598	94.543	128.416	150.983	160.168
125	3.394	16.840	47.408	82.816	112.563	132.767	140.325
130	3.440	14.580	41.185	71.877	97.543	115.133	122.173
135	3.530	12.364	35.275	61.007	83.374	98.441	104.470
140	3.892	10.715	30.153	51.377	69.922	82.961	88.374
145	4.299	9.087	24.917	42.604	57.799	68.138	72.361
150	4.616	7.686	19.548	34.439	46.414	54.410	57.780
155	4.933	6.624	14.696	25.936	36.375	42.457	45.077
160	5.340	6.036	11.145	17.953	25.913	30.821	32.770
165	5.567	5.517	8.517	12.404	16.392	20.398	21.355
170	6.019	5.698	6.428	8.367	9.789	11.860	12.708
175	6.562	6.376	6.070	6.046	6.154	6.314	6.871
180	6.321	6.321	6.321	6.321	6.321	6.321	6.321

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	473.95	9.80	9.80
0-30	1012.41	21.00	21.00
0-40	1672.14	34.70	34.70
0-60	3045.37	63.30	63.30
0-80	4009.00	83.30	83.30
0-90	4253.62	88.40	88.40
10-90	4131.51	85.90	85.90
20-40	1198.2	24.90	24.90
20-50	1902.38	39.50	39.50
40-70	1934.74	40.20	40.20
60-80	963.64	20.00	20.00
70-80	402.12	8.40	8.40
80-90	244.61	5.10	5.10
90-110	303.20	6.30	6.30
90-120	402.45	8.40	8.40
90-130	472.16	9.80	9.80
90-150	542.42	11.30	11.30
90-180	558.80	11.60	11.60
110-180	255.60	5.30	5.30
0-180	4812.42	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.11
10-20	351.84
20-30	538.46
30-40	659.73
40-50	704.19
50-60	669.04
60-70	561.52
70-80	402.12
80-90	244.61
90-100	170.26
100-110	132.94
110-120	99.25
120-130	69.71
130-140	44.79
140-150	25.46
150-160	11.85
160-170	3.84
170-180	0.68

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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	104	99	94	90	100	95	91	87	89	85	82	83	80	77	78	75	73	70
2	94	85	78	72	90	82	75	70	77	71	66	72	67	63	67	63	60	57
3	85	74	66	59	82	72	64	57	67	60	55	63	57	52	59	54	50	47
4	78	65	56	49	75	63	55	48	59	52	46	56	49	44	52	47	43	40
5	72	58	49	42	69	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	36	63	51	42	36	48	40	35	45	38	33	42	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	38	33	28	26
8	57	43	34	28	54	42	34	28	39	32	27	37	31	26	35	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	24	33	27	23	21
10	50	36	28	23	48	35	28	23	33	27	22	32	26	21	30	25	21	19

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**UGR TABLE - CORRECTED**

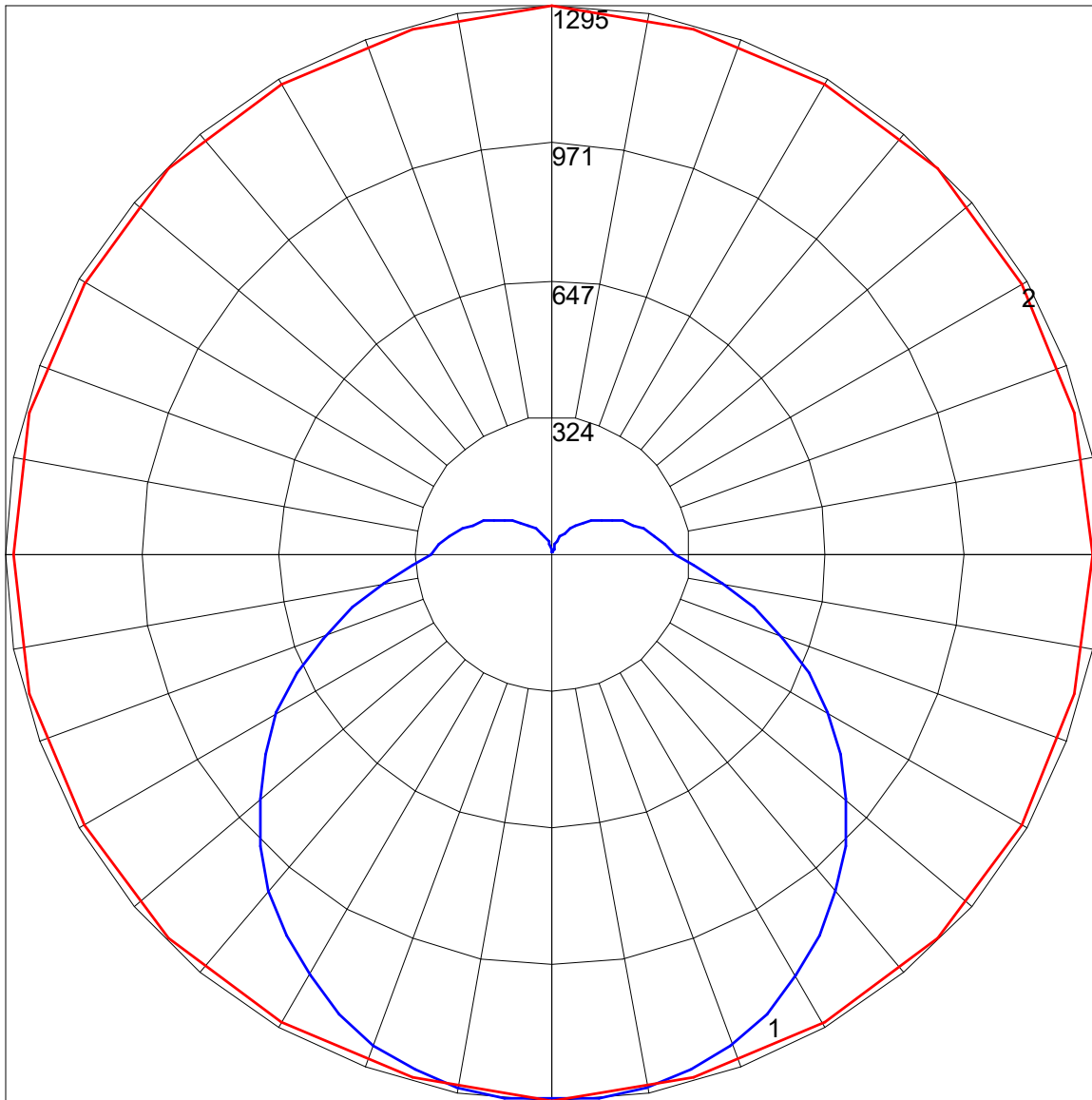
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.5	19.9	19.1	20.5	21.1	21.0	22.4	21.5	22.9	23.5
	3H	19.9	21.2	20.5	21.8	22.4	23.4	24.8	24.0	25.3	25.9
	4H	20.4	21.6	20.9	22.2	22.8	24.6	25.8	25.2	26.4	27.1
	6H	20.6	21.8	21.2	22.3	23.0	25.8	26.9	26.4	27.5	28.2
	8H	20.6	21.8	21.2	22.4	23.0	26.4	27.5	27.0	28.1	28.8
	12H	20.7	21.7	21.3	22.3	23.0	27.0	28.1	27.6	28.7	29.4
4H	2H	19.5	20.7	20.0	21.3	21.9	21.4	22.6	21.9	23.2	23.8
	3H	21.1	22.2	21.7	22.8	23.5	24.0	25.1	24.6	25.7	26.4
	4H	21.7	22.7	22.3	23.3	24.0	25.4	26.3	26.0	27.0	27.7
	6H	22.1	22.9	22.7	23.5	24.3	26.7	27.6	27.4	28.2	28.9
	8H	22.1	22.9	22.8	23.6	24.3	27.4	28.2	28.1	28.9	29.6
	12H	22.2	22.9	22.8	23.6	24.3	28.2	28.9	28.8	29.6	30.3
8H	4H	22.4	23.2	23.0	23.8	24.6	25.6	26.4	26.2	27.0	27.7
	6H	22.9	23.6	23.6	24.3	25.0	27.1	27.7	27.7	28.4	29.2
	8H	23.1	23.7	23.8	24.4	25.1	27.9	28.5	28.6	29.2	29.9
	12H	23.2	23.7	23.9	24.4	25.2	28.8	29.4	29.5	30.0	30.8
12H	4H	22.6	23.3	23.2	24.0	24.7	25.6	26.3	26.2	26.9	27.7
	6H	23.2	23.8	23.9	24.5	25.3	27.1	27.7	27.8	28.4	29.2
	8H	23.5	24.0	24.1	24.7	25.5	28.0	28.5	28.7	29.2	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 1294.951 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)