



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR48L37W4800LDMV40K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] LCZP19040103  
 [TESTLAB] LCTECH  
 [TESTDATE] 2019/4/19  
 [ISSUEDATE] 2019/4/19  
 [MANUFAC] Savegreen  
 [LUMCAT] GSR48L37W4800LDMV40K  
 [LUMINAIRE] Direct Linear Ambient Luminaires  
 [LAMPCAT]  
 [LAMP]

### CHARACTERISTICS

Lumens Per Lamp	4699.31 (1 lamp)
Total Lamp Lumens	4699.31
Luminaire Lumens	4699
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	36.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
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	14409	12049	11845
55	13600	11051	10920
65	12275	9853	9988
75	9609	8372	8798
85	4515	6901	7739

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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>
<b>0</b>	1254.464	1254.464	1254.464	1254.464	1254.464	1254.464	1254.464
<b>5</b>	1248.435	1248.877	1249.238	1249.696	1251.610	1251.870	1262.058
<b>10</b>	1229.126	1230.425	1233.749	1236.221	1239.523	1240.891	1252.073
<b>15</b>	1198.938	1201.165	1205.964	1213.450	1219.497	1223.236	1232.357
<b>20</b>	1156.331	1161.976	1169.741	1179.858	1188.730	1193.751	1205.354
<b>25</b>	1105.384	1110.937	1122.392	1138.430	1149.262	1157.760	1170.228
<b>30</b>	1043.558	1050.841	1066.160	1087.675	1101.645	1113.458	1126.932
<b>35</b>	971.715	984.748	1003.656	1030.019	1046.838	1060.526	1075.365
<b>40</b>	894.660	910.522	932.425	965.465	986.634	1005.529	1017.062
<b>45</b>	814.930	829.782	858.107	893.575	920.667	940.585	955.230
<b>50</b>	722.917	741.973	775.989	816.843	848.948	870.883	885.470
<b>55</b>	630.450	650.673	690.988	737.657	774.869	800.723	810.930
<b>60</b>	528.102	553.535	600.525	653.436	692.917	721.589	736.189
<b>65</b>	426.525	452.798	507.495	564.674	608.394	640.592	655.406
<b>70</b>	318.738	355.000	414.010	475.494	522.862	556.592	568.932
<b>75</b>	212.175	256.596	321.303	386.160	436.480	471.374	483.774
<b>80</b>	116.218	165.455	236.299	302.856	355.633	390.857	402.800
<b>85</b>	39.480	90.055	165.264	231.504	283.477	319.020	330.315
<b>90</b>	4.895	50.655	122.494	188.525	240.864	275.096	286.236
<b>95</b>	3.581	39.582	105.131	168.927	219.506	252.796	265.240
<b>100</b>	3.400	32.653	91.145	151.174	198.976	230.925	242.865
<b>105</b>	3.037	28.033	79.832	135.020	179.779	210.064	220.708
<b>110</b>	2.765	24.614	70.297	120.212	161.470	189.290	199.131
<b>115</b>	2.584	21.919	62.179	106.418	143.728	169.124	179.165
<b>120</b>	2.538	19.406	54.894	94.131	127.670	150.395	158.925
<b>125</b>	2.493	17.186	48.328	82.835	112.036	132.049	140.290
<b>130</b>	2.448	15.148	42.075	72.349	97.976	115.452	121.698
<b>135</b>	2.629	13.133	36.364	62.176	83.938	98.790	104.265
<b>140</b>	2.810	11.299	30.877	52.546	71.113	83.541	88.576
<b>145</b>	3.128	9.624	25.659	44.040	59.207	69.484	73.505
<b>150</b>	3.400	7.767	20.599	35.556	48.135	56.076	59.286
<b>155</b>	3.853	6.295	15.584	27.117	37.736	43.884	46.491
<b>160</b>	4.306	5.616	11.783	19.172	27.222	32.115	33.829
<b>165</b>	4.533	5.457	8.455	13.005	17.542	21.672	22.953
<b>170</b>	4.941	5.457	6.387	8.191	10.083	12.531	13.600
<b>175</b>	5.167	5.367	5.646	5.942	6.066	6.133	6.559
<b>180</b>	5.112	5.112	5.112	5.112	5.112	5.112	5.112

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	461.45	9.80	9.80
0-30	985.26	21.00	21.00
0-40	1626.89	34.60	34.60
0-60	2963.7	63.10	63.10
0-80	3903.43	83.10	83.10
0-90	4143.45	88.20	88.20
10-90	4024.49	85.60	85.60
20-40	1165.44	24.80	24.80
20-50	1850.56	39.40	39.40
40-70	1883.97	40.10	40.10
60-80	939.73	20.00	20.00
70-80	392.57	8.40	8.40
80-90	240.02	5.10	5.10
90-110	299.49	6.40	6.40
90-120	398.15	8.50	8.50
90-130	467.82	10.00	10.00
90-150	539.01	11.50	11.50
90-180	555.86	11.80	11.80
110-180	256.37	5.50	5.50
0-180	4699.31	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.96
10-20	342.50
20-30	523.80
30-40	641.64
40-50	685.12
50-60	651.69
60-70	547.17
70-80	392.57
80-90	240.02
90-100	167.87
100-110	131.62
110-120	98.66
120-130	69.67
130-140	45.20
140-150	26.00
150-160	12.23
160-170	3.98
170-180	0.65

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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	89	100	95	91	87	89	85	82	83	80	77	77	75	73	70
2	94	85	78	71	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	55	49	44	52	47	42	40
5	71	58	49	42	68	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	36	63	51	42	36	48	40	34	45	38	33	42	36	32	30
7	61	47	38	32	58	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	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	49	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

X=2H	Y=2H	18.3	19.8	18.9	20.3	20.9	UGR Viewed Endwise			
	3H	19.8	21.1	20.3	21.6	22.3	20.8	22.3	21.4	22.8
	4H	20.2	21.5	20.8	22.0	22.7	23.3	24.7	23.9	25.2
	6H	20.5	21.6	21.0	22.2	22.9	24.5	25.8	25.1	26.3
	8H	20.5	21.6	21.1	22.2	22.9	25.7	26.9	26.3	27.4
	12H	20.5	21.6	21.1	22.2	22.9	26.3	27.4	26.9	28.0
							27.0	28.0	27.6	28.6

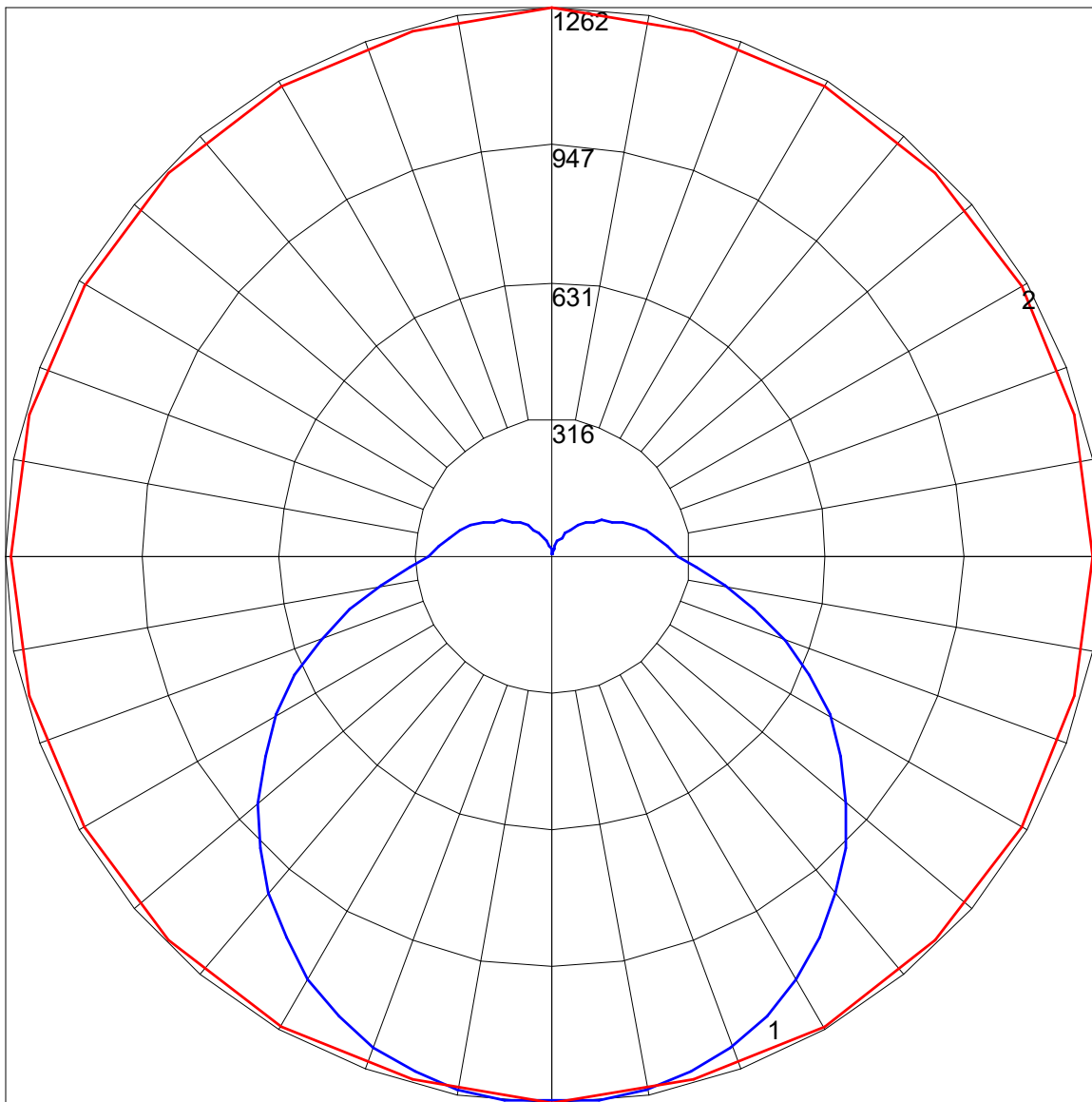
4H	2H	19.3	20.6	19.9	21.1	21.8	21.3	22.5	21.8	23.1
	3H	21.0	22.0	21.6	22.7	23.3	23.9	25.0	24.5	25.6
	4H	21.6	22.5	22.2	23.1	23.8	25.3	26.2	25.9	26.9
	6H	21.9	22.8	22.5	23.4	24.1	26.7	27.5	27.3	28.1
	8H	22.0	22.8	22.6	23.4	24.2	27.4	28.2	28.0	28.8
	12H	22.0	22.7	22.7	23.4	24.1	28.1	28.9	28.8	29.5

8H	4H	22.3	23.1	22.9	23.7	24.4	25.5	26.3	26.1	26.9
	6H	22.8	23.5	23.4	24.2	24.9	27.0	27.7	27.6	28.3
	8H	23.0	23.6	23.6	24.3	25.0	27.8	28.4	28.5	29.1
	12H	23.0	23.6	23.7	24.3	25.1	28.7	29.3	29.4	30.0

12H	4H	22.4	23.2	23.1	23.8	24.6	25.5	26.2	26.1	26.9
	6H	23.1	23.7	23.8	24.4	25.1	27.0	27.6	27.7	28.3
	8H	23.3	23.9	24.0	24.6	25.4	27.9	28.4	28.6	29.1

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 1262.058 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.)