



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR48L37W4800LDMV30K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LCZP19030518
 [TESTLAB] LCTECH
 [TESTDATE] 2019/3/28
 [ISSUE DATE] 2019/3/28
 [MANUFAC] Savegreen
 [LUMCAT] GSR48L37W4800LDMV30K
 [LUMINAIRE] Direct Linear Ambient Luminaires
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	4367.31 (1 lamp)
Total Lamp Lumens	4367.31
Luminaire Lumens	4367
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	36.84
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.24
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	15713	11256	9404
55	16246	10326	7897
65	17439	9205	6040
75	20211	7828	3637
85	34668	6407	869

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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	1168.281	1168.281	1168.281	1168.281	1168.281	1168.281	1168.281
5	1175.005	1166.497	1164.242	1166.249	1163.790	1162.857	1159.684
10	1164.735	1156.611	1154.809	1154.979	1148.955	1145.451	1142.490
15	1149.131	1139.529	1135.935	1132.879	1124.700	1119.680	1115.794
20	1122.818	1113.699	1108.764	1103.322	1090.521	1082.381	1077.334
25	1089.360	1080.219	1071.704	1065.205	1047.831	1036.038	1028.015
30	1046.092	1037.756	1027.245	1016.732	996.835	979.973	973.718
35	998.364	989.674	976.044	964.165	936.804	918.487	908.110
40	946.642	934.848	919.887	901.920	871.868	849.764	836.620
45	888.656	876.214	859.034	834.717	800.843	774.711	758.342
50	822.653	810.833	790.077	763.669	723.301	694.458	676.445
55	753.078	744.108	717.756	689.229	644.171	608.330	586.403
60	683.525	671.095	643.650	609.376	561.916	517.908	491.384
65	605.928	595.148	565.946	527.513	472.669	424.537	396.365
70	526.543	516.969	485.767	442.485	386.136	331.398	299.084
75	446.271	437.215	404.922	361.078	300.044	238.035	199.992
80	370.928	361.262	328.786	281.232	219.347	155.292	109.046
85	303.153	294.091	262.761	214.927	151.687	84.990	37.103
90	263.496	252.975	221.435	174.332	112.808	47.463	5.430
95	242.540	232.531	202.565	156.060	97.073	35.936	3.620
100	222.925	212.310	183.254	139.373	83.591	29.381	3.167
105	202.417	192.311	165.063	123.811	73.029	25.313	3.167
110	182.797	173.664	147.771	110.058	64.042	21.923	3.167
115	163.181	154.798	131.603	97.424	56.399	19.437	3.167
120	145.350	137.269	116.331	85.699	49.661	17.177	2.715
125	127.070	120.646	102.183	75.100	43.144	15.369	3.167
130	111.016	104.469	88.484	65.175	37.077	13.334	3.167
135	94.963	89.417	75.684	55.255	32.132	11.075	3.167
140	80.250	75.264	63.556	46.684	27.414	9.719	3.620
145	65.532	62.009	52.552	38.791	22.696	8.362	4.072
150	52.603	49.204	41.998	31.346	17.528	6.780	4.072
155	41.014	38.642	33.014	23.454	13.260	6.103	4.525
160	29.869	27.857	23.581	16.463	10.113	5.424	4.977
165	19.615	18.424	14.823	11.050	7.642	4.973	4.977
170	11.594	11.008	8.984	7.669	5.844	5.200	5.430
175	6.248	5.619	5.390	5.413	5.622	5.652	5.882
180	5.915	5.915	5.915	5.915	5.915	5.915	5.915

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	430.08	9.80	9.80
0-30	918.73	21.00	21.00
0-40	1517.39	34.70	34.70
0-60	2763.54	63.30	63.30
0-80	3638.02	83.30	83.30
0-90	3860.05	88.40	88.40
10-90	3749.25	85.80	85.80
20-40	1087.31	24.90	24.90
20-50	1726.34	39.50	39.50
40-70	1755.7	40.20	40.20
60-80	874.48	20.00	20.00
70-80	364.92	8.40	8.40
80-90	222.04	5.10	5.10
90-110	275.23	6.30	6.30
90-120	365.35	8.40	8.40
90-130	428.62	9.80	9.80
90-150	492.40	11.30	11.30
90-180	507.26	11.60	11.60
110-180	232.03	5.30	5.30
0-180	4367.31	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.80
10-20	319.28
20-30	488.65
30-40	598.66
40-50	639.02
50-60	607.12
60-70	509.55
70-80	364.92
80-90	222.04
90-100	154.55
100-110	120.68
110-120	90.12
120-130	63.27
130-140	40.65
140-150	23.13
150-160	10.75
160-170	3.49
170-180	0.62

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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

X=2H	Y=2H	19.5	21.0	20.1	21.5	22.1	19.1	20.6	19.7	21.1	21.7
	3H	21.6	22.9	22.2	23.5	24.1	20.8	22.2	21.4	22.7	23.4
	4H	22.5	23.8	23.1	24.3	25.0	21.5	22.7	22.0	23.3	23.9
	6H	23.3	24.5	23.9	25.1	25.7	21.9	23.0	22.4	23.6	24.3
	8H	23.7	24.8	24.3	25.4	26.1	22.0	23.1	22.6	23.7	24.3
	12H	24.0	25.1	24.6	25.7	26.4	22.0	23.1	22.6	23.7	24.4

UGR Viewed Endwise

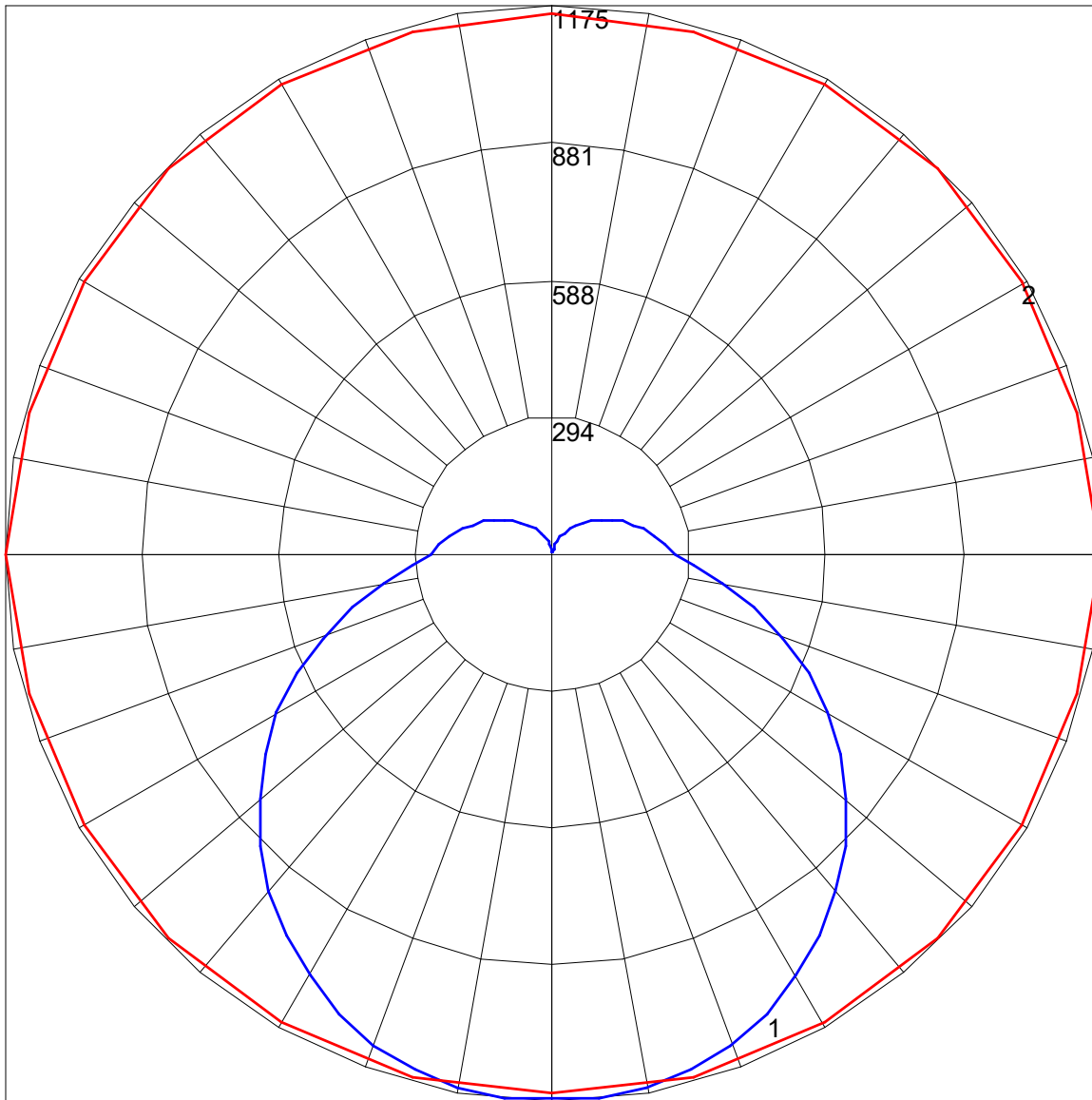
4H	2H	20.1	21.4	20.7	21.9	22.6	19.8	21.1	20.4	21.6	22.3
	3H	22.5	23.5	23.0	24.1	24.8	21.8	22.8	22.3	23.4	24.1
	4H	23.5	24.5	24.1	25.1	25.8	22.5	23.5	23.1	24.1	24.8
	6H	24.5	25.4	25.1	26.0	26.7	23.1	23.9	23.7	24.5	25.3
	8H	25.0	25.8	25.6	26.4	27.1	23.2	24.0	23.8	24.6	25.4
	12H	25.4	26.1	26.0	26.8	27.5	23.3	24.0	23.9	24.7	25.4

8H	4H	23.8	24.6	24.5	25.3	26.0	23.0	23.8	23.6	24.4	25.1
	6H	25.0	25.7	25.7	26.4	27.1	23.7	24.4	24.3	25.0	25.8
	8H	25.6	26.2	26.3	26.9	27.6	23.9	24.5	24.6	25.2	26.0
	12H	26.2	26.7	26.9	27.4	28.2	24.1	24.7	24.8	25.3	26.1

12H	4H	23.9	24.6	24.5	25.3	26.0	23.1	23.8	23.7	24.4	25.2
	6H	25.1	25.7	25.8	26.4	27.1	23.8	24.5	24.5	25.1	25.9
	8H	25.7	26.3	26.4	27.0	27.8	24.2	24.7	24.9	25.4	26.2

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 1175.005 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)