



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR48L37W4800LDMV35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LCZP19070495
 [TESTLAB] LCTECH
 [TESTDATE] 2019/7/30
 [ISSUE DATE] 2019/7/30
 [MANUFAC] Savegreen
 [LUMCAT] GSR48L37W4800LDMV35K
 [LUMINAIRE] Direct Linear Ambient Luminaires
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	4681.11 (1 lamp)
Total Lamp Lumens	4681.11
Luminaire Lumens	4681
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	36.45
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
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	16861	12334	10647
55	17385	11238	8981
65	18354	9910	6919
75	20785	8229	4199
85	33988	6383	1005

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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	1289.849	1289.849	1289.849	1289.849	1289.849	1289.849	1289.849
5	1288.328	1288.654	1286.295	1284.852	1285.044	1283.606	1295.790
10	1277.186	1274.678	1272.747	1269.817	1268.071	1265.680	1276.800
15	1254.634	1252.923	1249.775	1245.307	1241.102	1237.132	1246.347
20	1224.565	1223.054	1218.254	1211.978	1203.823	1196.423	1205.403
25	1185.323	1183.313	1177.395	1168.811	1156.443	1147.652	1153.533
30	1136.773	1136.581	1127.420	1118.214	1100.345	1087.506	1091.205
35	1085.807	1081.669	1069.805	1056.977	1035.202	1018.074	1019.673
40	1023.029	1020.013	1004.860	988.600	963.384	945.089	941.166
45	953.583	952.632	937.251	914.665	883.239	861.785	858.591
50	884.450	879.459	859.086	832.968	798.379	773.482	766.767
55	805.876	800.516	778.271	750.102	711.841	677.665	666.905
60	724.841	718.123	694.613	661.200	616.760	576.637	562.794
65	637.721	631.085	604.005	567.937	518.375	473.064	454.012
70	547.960	543.844	512.702	473.789	419.918	367.331	340.715
75	458.960	452.931	422.651	379.579	322.121	262.763	230.853
80	373.808	363.976	336.042	289.037	230.663	169.795	128.310
85	297.203	289.427	259.816	214.108	154.532	89.770	42.906
90	251.518	243.124	213.781	168.668	109.912	48.008	4.658
95	230.621	222.520	193.307	148.977	92.757	34.969	4.341
100	210.978	202.615	174.271	131.917	79.641	28.520	4.070
105	191.468	182.755	156.159	116.906	68.771	24.237	3.754
110	172.541	164.540	139.936	103.693	60.215	21.373	3.526
115	153.568	146.461	124.140	91.382	52.871	19.231	3.388
120	135.983	129.802	109.581	80.420	46.761	17.450	3.384
125	118.935	113.504	96.013	70.382	41.101	15.624	3.201
130	103.453	97.904	82.985	61.019	35.801	13.595	2.975
135	88.552	83.679	70.993	52.129	30.949	11.949	2.704
140	74.502	70.604	60.101	44.475	26.839	10.619	2.839
145	62.018	58.882	50.133	37.611	22.729	9.402	3.200
150	50.608	48.129	41.402	31.196	18.619	8.252	3.741
155	40.585	38.683	33.482	24.421	15.047	7.509	4.416
160	30.875	29.351	25.179	18.411	12.486	6.991	5.094
165	21.836	21.145	17.663	14.111	10.218	6.697	5.681
170	14.677	14.089	11.992	10.330	8.174	6.765	6.178
175	8.904	8.385	8.190	7.742	7.276	6.810	6.765
180	6.884	6.884	6.884	6.884	6.884	6.884	6.884

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	474.18	10.10	10.10
0-30	1012.34	21.60	21.60
0-40	1671.12	35.70	35.70
0-60	3036.55	64.90	64.90
0-80	3973.99	84.90	84.90
0-90	4196.97	89.70	89.70
10-90	4074.65	87.00	87.00
20-40	1196.94	25.60	25.60
20-50	1898.57	40.60	40.60
40-70	1916.76	40.90	40.90
60-80	937.44	20.00	20.00
70-80	386.11	8.20	8.20
80-90	222.98	4.80	4.80
90-110	262.53	5.60	5.60
90-120	347.69	7.40	7.40
90-130	407.39	8.70	8.70
90-150	468.15	10.00	10.00
90-180	484.15	10.30	10.30
110-180	221.62	4.70	4.70
0-180	4681.11	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.31
10-20	351.87
20-30	538.16
30-40	658.78
40-50	701.63
50-60	663.80
60-70	551.33
70-80	386.11
80-90	222.98
90-100	148.06
100-110	114.47
110-120	85.16
120-130	59.70
130-140	38.42
140-150	22.34
150-160	11.08
160-170	4.10
170-180	0.82

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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	105	99	95	90	101	96	92	88	90	86	83	84	81	79	79	77	74	72
2	95	86	78	72	91	83	76	70	78	72	67	73	68	64	68	65	61	58
3	86	75	66	59	82	72	64	58	68	61	56	64	58	53	60	55	51	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	53	48	44	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	33	28	23	21
10	50	36	29	23	48	36	28	23	34	27	22	32	26	22	31	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	19.9	21.4	20.4	21.9	22.5	UGR Viewed Endwise			
	3H	21.9	23.3	22.5	23.8	24.4	19.7	21.2	20.3	21.7
	4H	22.8	24.1	23.3	24.6	25.2	21.5	22.8	22.0	23.3
	6H	23.5	24.7	24.1	25.3	25.9	22.1	23.4	22.6	23.9
	8H	23.9	25.0	24.4	25.6	26.2	22.5	23.7	23.1	24.3
	12H	24.2	25.3	24.7	25.8	26.5	22.6	23.8	23.2	24.3

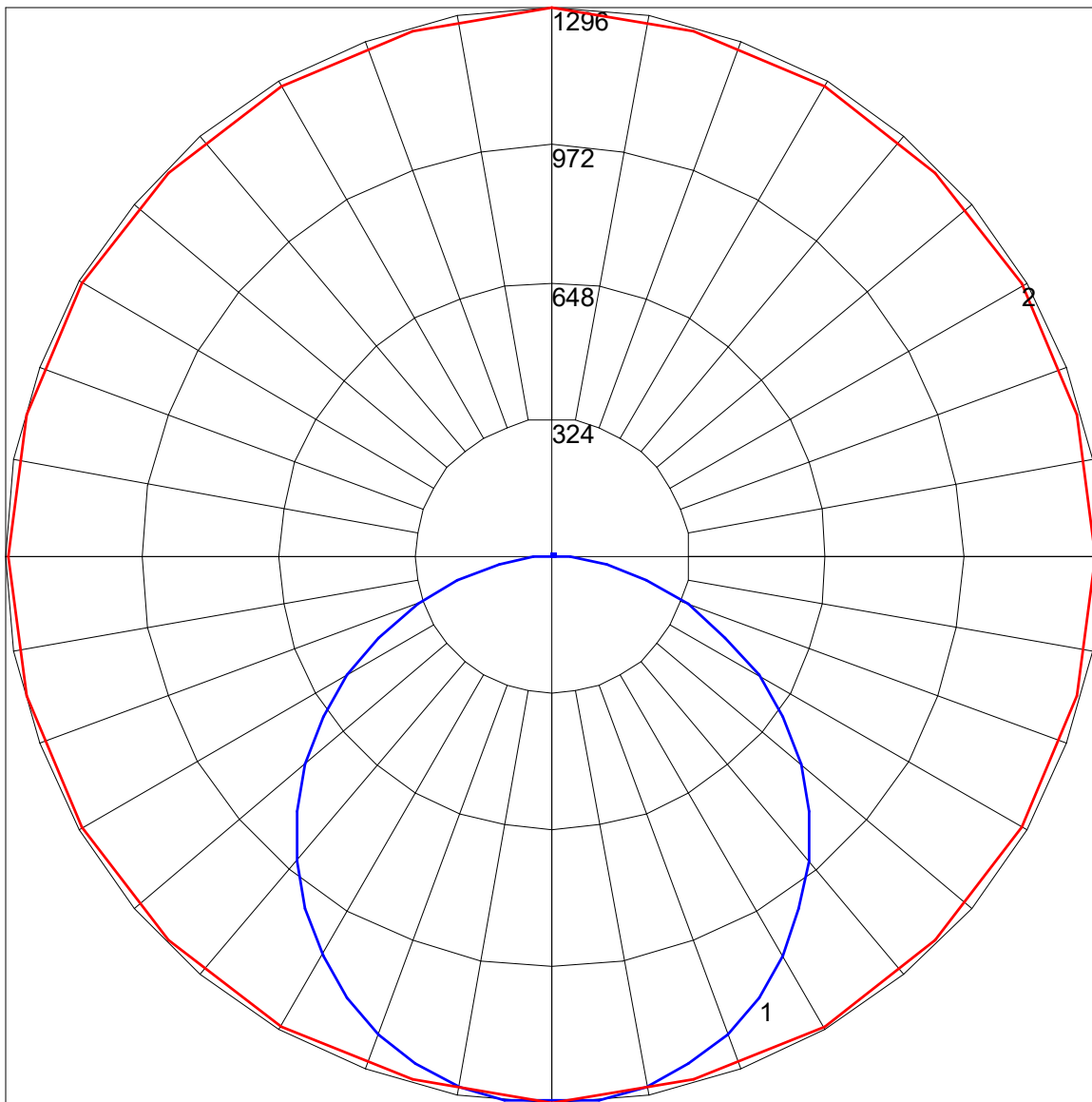
4H	2H	20.5	21.8	21.1	22.3	22.9	20.4	21.7	20.9	22.2
	3H	22.8	23.9	23.3	24.4	25.1	22.4	23.4	22.9	24.0
	4H	23.8	24.8	24.4	25.4	26.0	23.1	24.1	23.7	24.7
	6H	24.7	25.6	25.3	26.2	26.9	23.6	24.5	24.2	25.1
	8H	25.1	25.9	25.7	26.5	27.2	23.8	24.6	24.4	25.2
	12H	25.5	26.2	26.1	26.9	27.6	23.9	24.6	24.5	25.3

8H	4H	24.1	24.9	24.7	25.5	26.2	23.5	24.3	24.1	24.9
	6H	25.2	25.9	25.8	26.5	27.2	24.2	24.9	24.8	25.6
	8H	25.7	26.4	26.4	27.0	27.7	24.4	25.1	25.1	25.7
	12H	26.3	26.8	26.9	27.5	28.2	24.6	25.2	25.3	25.8

12H	4H	24.1	24.9	24.7	25.5	26.2	23.6	24.3	24.2	25.0
	6H	25.3	25.9	25.9	26.5	27.3	24.3	25.0	25.0	25.6
	8H	25.9	26.4	26.5	27.1	27.8	24.7	25.2	25.3	25.9

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 1295.79 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.)