



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR96L73W8600LDMV35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LCZP19070495
 [TESTLAB] LCTECH
 [TESTDATE] 2019/7/30
 [ISSUEDATE] 2019/7/30
 [MANUFAC] Savegreen
 [LUMCAT] GSR96L73W8600LDMV35K
 [LUMINAIRE] Direct Linear Ambient Luminaires
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	9362.22 (1 lamp)
Total Lamp Lumens	9362.22
Luminaire Lumens	9362
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	72.9
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	33721	24667	21293
55	34769	22475	17961
65	36707	19820	13838
75	41571	16458	8397
85	67975	12765	2011

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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	2579.698	2579.698	2579.698	2579.698	2579.698	2579.698	2579.698
5	2576.656	2577.308	2572.590	2569.704	2570.088	2567.212	2591.580
10	2554.372	2549.356	2545.494	2539.634	2536.142	2531.360	2553.600
15	2509.268	2505.846	2499.550	2490.614	2482.204	2474.264	2492.694
20	2449.130	2446.108	2436.508	2423.956	2407.646	2392.846	2410.806
25	2370.646	2366.626	2354.790	2337.622	2312.886	2295.304	2307.066
30	2273.546	2273.162	2254.840	2236.428	2200.690	2175.012	2182.410
35	2171.614	2163.338	2139.610	2113.954	2070.404	2036.148	2039.346
40	2046.058	2040.026	2009.720	1977.200	1926.768	1890.178	1882.332
45	1907.166	1905.264	1874.502	1829.330	1766.478	1723.570	1717.182
50	1768.900	1758.918	1718.172	1665.936	1596.758	1546.964	1533.534
55	1611.752	1601.032	1556.542	1500.204	1423.682	1355.330	1333.810
60	1449.682	1436.246	1389.226	1322.400	1233.520	1153.274	1125.588
65	1275.442	1262.170	1208.010	1135.874	1036.750	946.128	908.024
70	1095.920	1087.688	1025.404	947.578	839.836	734.662	681.430
75	917.920	905.862	845.302	759.158	644.242	525.526	461.706
80	747.616	727.952	672.084	578.074	461.326	339.590	256.620
85	594.406	578.854	519.632	428.216	309.064	179.540	85.812
90	503.036	486.248	427.562	337.336	219.824	96.016	9.316
95	461.242	445.040	386.614	297.954	185.514	69.938	8.682
100	421.956	405.230	348.542	263.834	159.282	57.040	8.140
105	382.936	365.510	312.318	233.812	137.542	48.474	7.508
110	345.082	329.080	279.872	207.386	120.430	42.746	7.052
115	307.136	292.922	248.280	182.764	105.742	38.462	6.776
120	271.966	259.604	219.162	160.840	93.522	34.900	6.768
125	237.870	227.008	192.026	140.764	82.202	31.248	6.402
130	206.906	195.808	165.970	122.038	71.602	27.190	5.950
135	177.104	167.358	141.986	104.258	61.898	23.898	5.408
140	149.004	141.208	120.202	88.950	53.678	21.238	5.678
145	124.036	117.764	100.266	75.222	45.458	18.804	6.400
150	101.216	96.258	82.804	62.392	37.238	16.504	7.482
155	81.170	77.366	66.964	48.842	30.094	15.018	8.832
160	61.750	58.702	50.358	36.822	24.972	13.982	10.188
165	43.672	42.290	35.326	28.222	20.436	13.394	11.362
170	29.354	28.178	23.984	20.660	16.348	13.530	12.356
175	17.808	16.770	16.380	15.484	14.552	13.620	13.530
180	13.768	13.768	13.768	13.768	13.768	13.768	13.768

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	948.37	10.10	10.10
0-30	2024.68	21.60	21.60
0-40	3342.24	35.70	35.70
0-60	6073.11	64.90	64.90
0-80	7947.98	84.90	84.90
0-90	8393.93	89.70	89.70
10-90	8149.3	87.00	87.00
20-40	2393.88	25.60	25.60
20-50	3797.14	40.60	40.60
40-70	3833.53	40.90	40.90
60-80	1874.87	20.00	20.00
70-80	772.21	8.20	8.20
80-90	445.95	4.80	4.80
90-110	525.05	5.60	5.60
90-120	695.38	7.40	7.40
90-130	814.77	8.70	8.70
90-150	936.29	10.00	10.00
90-180	968.29	10.30	10.30
110-180	443.24	4.70	4.70
0-180	9362.22	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	244.63
10-20	703.74
20-30	1076.31
30-40	1317.56
40-50	1403.26
50-60	1327.6
60-70	1102.66
70-80	772.21
80-90	445.95
90-100	296.12
100-110	228.94
110-120	170.33
120-130	119.39
130-140	76.83
140-150	44.69
150-160	22.16
160-170	8.20
170-180	1.64

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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	22.3	23.8	22.8	24.3	24.9	UGR Viewed Endwise			
	3H	24.3	25.7	24.9	26.2	26.8	22.1	23.6	22.7	24.1
	4H	25.2	26.5	25.7	27.0	27.6	23.9	25.2	24.4	25.7
	6H	25.9	27.1	26.5	27.7	28.3	24.5	25.8	25.0	26.3
	8H	26.3	27.4	26.8	28.0	28.6	24.9	26.1	25.5	26.7
	12H	26.6	27.7	27.1	28.2	28.9	25.0	26.2	25.6	26.7

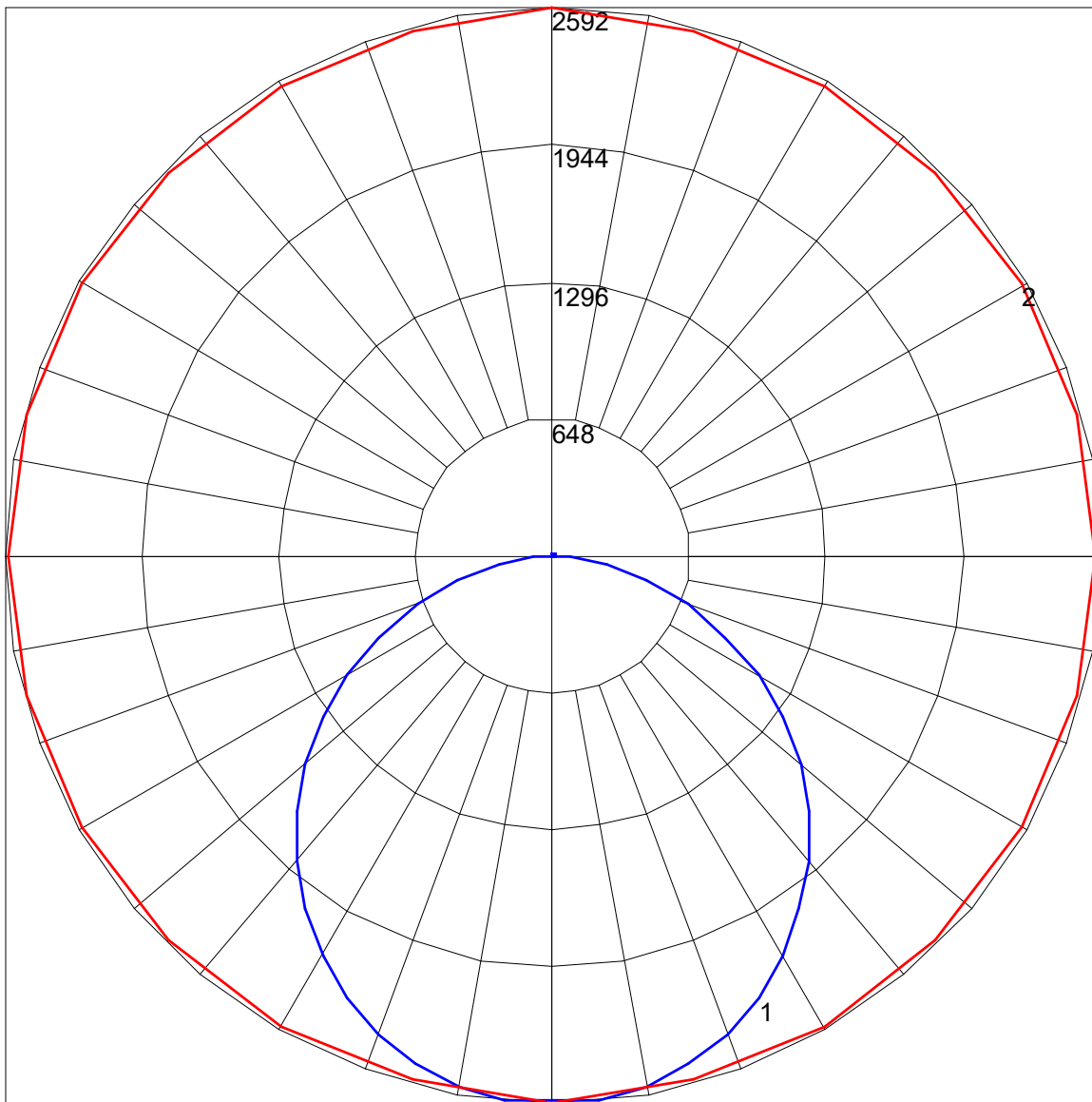
4H	2H	22.9	24.2	23.5	24.7	25.3	22.8	24.1	23.3	24.6
	3H	25.2	26.3	25.7	26.8	27.5	24.8	25.8	25.3	26.4
	4H	26.2	27.2	26.8	27.8	28.4	25.5	26.5	26.1	27.1
	6H	27.1	28.0	27.7	28.6	29.3	26.0	26.9	26.6	27.5
	8H	27.5	28.3	28.1	28.9	29.6	26.2	27.0	26.8	27.6
	12H	27.9	28.6	28.5	29.3	30.0	26.3	27.0	26.9	27.7

8H	4H	26.5	27.3	27.1	27.9	28.6	25.9	26.7	26.5	27.3
	6H	27.6	28.3	28.2	28.9	29.6	26.6	27.3	27.2	28.0
	8H	28.1	28.8	28.8	29.4	30.1	26.8	27.5	27.5	28.1
	12H	28.7	29.2	29.3	29.9	30.6	27.0	27.6	27.7	28.2

12H	4H	26.5	27.3	27.1	27.9	28.6	26.0	26.7	26.6	27.4
	6H	27.7	28.3	28.3	28.9	29.7	26.7	27.4	27.4	28.0
	8H	28.3	28.8	28.9	29.5	30.2	27.1	27.6	27.7	28.3

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 2591.58 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.)