



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR96L73W8600LDMV30K.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] GSR96L73W8600LDMV30K
 [LUMINAIRE] Direct Linear Ambient Luminaires
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	8734.62 (1 lamp)
Total Lamp Lumens	8734.62
Luminaire Lumens	8735
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	73.68
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	31425	22511	18807
55	32491	20651	15793
65	34877	18409	12081
75	40422	15656	7274
85	69336	12814	1739

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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	2336.562	2336.562	2336.562	2336.562	2336.562	2336.562	2336.562
5	2350.010	2332.994	2328.484	2332.498	2327.580	2325.714	2319.368
10	2329.470	2313.222	2309.618	2309.958	2297.910	2290.902	2284.980
15	2298.262	2279.058	2271.870	2265.758	2249.400	2239.360	2231.588
20	2245.636	2227.398	2217.528	2206.644	2181.042	2164.762	2154.668
25	2178.720	2160.438	2143.408	2130.410	2095.662	2072.076	2056.030
30	2092.184	2075.512	2054.490	2033.464	1993.670	1959.946	1947.436
35	1996.728	1979.348	1952.088	1928.330	1873.608	1836.974	1816.220
40	1893.284	1869.696	1839.774	1803.840	1743.736	1699.528	1673.240
45	1777.312	1752.428	1718.068	1669.434	1601.686	1549.422	1516.684
50	1645.306	1621.666	1580.154	1527.338	1446.602	1388.916	1352.890
55	1506.156	1488.216	1435.512	1378.458	1288.342	1216.660	1172.806
60	1367.050	1342.190	1287.300	1218.752	1123.832	1035.816	982.768
65	1211.856	1190.296	1131.892	1055.026	945.338	849.074	792.730
70	1053.086	1033.938	971.534	884.970	772.272	662.796	598.168
75	892.542	874.430	809.844	722.156	600.088	476.070	399.984
80	741.856	722.524	657.572	562.464	438.694	310.584	218.092
85	606.306	588.182	525.522	429.854	303.374	169.980	74.206
90	526.992	505.950	442.870	348.664	225.616	94.926	10.860
95	485.080	465.062	405.130	312.120	194.146	71.872	7.240
100	445.850	424.620	366.508	278.746	167.182	58.762	6.334
105	404.834	384.622	330.126	247.622	146.058	50.626	6.334
110	365.594	347.328	295.542	220.116	128.084	43.846	6.334
115	326.362	309.596	263.206	194.848	112.798	38.874	6.334
120	290.700	274.538	232.662	171.398	99.322	34.354	5.430
125	254.140	241.292	204.366	150.200	86.288	30.738	6.334
130	222.032	208.938	176.968	130.350	74.154	26.668	6.334
135	189.926	178.834	151.368	110.510	64.264	22.150	6.334
140	160.500	150.528	127.112	93.368	54.828	19.438	7.240
145	131.064	124.018	105.104	77.582	45.392	16.724	8.144
150	105.206	98.408	83.996	62.692	35.056	13.560	8.144
155	82.028	77.284	66.028	46.908	26.520	12.206	9.050
160	59.738	55.714	47.162	32.926	20.226	10.848	9.954
165	39.230	36.848	29.646	22.100	15.284	9.946	9.954
170	23.188	22.016	17.968	15.338	11.688	10.400	10.860
175	12.496	11.238	10.780	10.826	11.244	11.304	11.764
180	11.830	11.830	11.830	11.830	11.830	11.830	11.830

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	860.16	9.80	9.80
0-30	1837.46	21.00	21.00
0-40	3034.79	34.70	34.70
0-60	5527.08	63.30	63.30
0-80	7276.03	83.30	83.30
0-90	7720.11	88.40	88.40
10-90	7498.5	85.80	85.80
20-40	2174.63	24.90	24.90
20-50	3452.67	39.50	39.50
40-70	3511.4	40.20	40.20
60-80	1748.95	20.00	20.00
70-80	729.85	8.40	8.40
80-90	444.07	5.10	5.10
90-110	550.46	6.30	6.30
90-120	730.70	8.40	8.40
90-130	857.23	9.80	9.80
90-150	984.80	11.30	11.30
90-180	1014.52	11.60	11.60
110-180	464.06	5.30	5.30
0-180	8734.63	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	221.60
10-20	638.56
20-30	977.30
30-40	1197.33
40-50	1278.05
50-60	1214.25
60-70	1019.1
70-80	729.85
80-90	444.07
90-100	309.10
100-110	241.36
110-120	180.24
120-130	126.53
130-140	81.31
140-150	46.26
150-160	21.50
160-170	6.97
170-180	1.24

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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

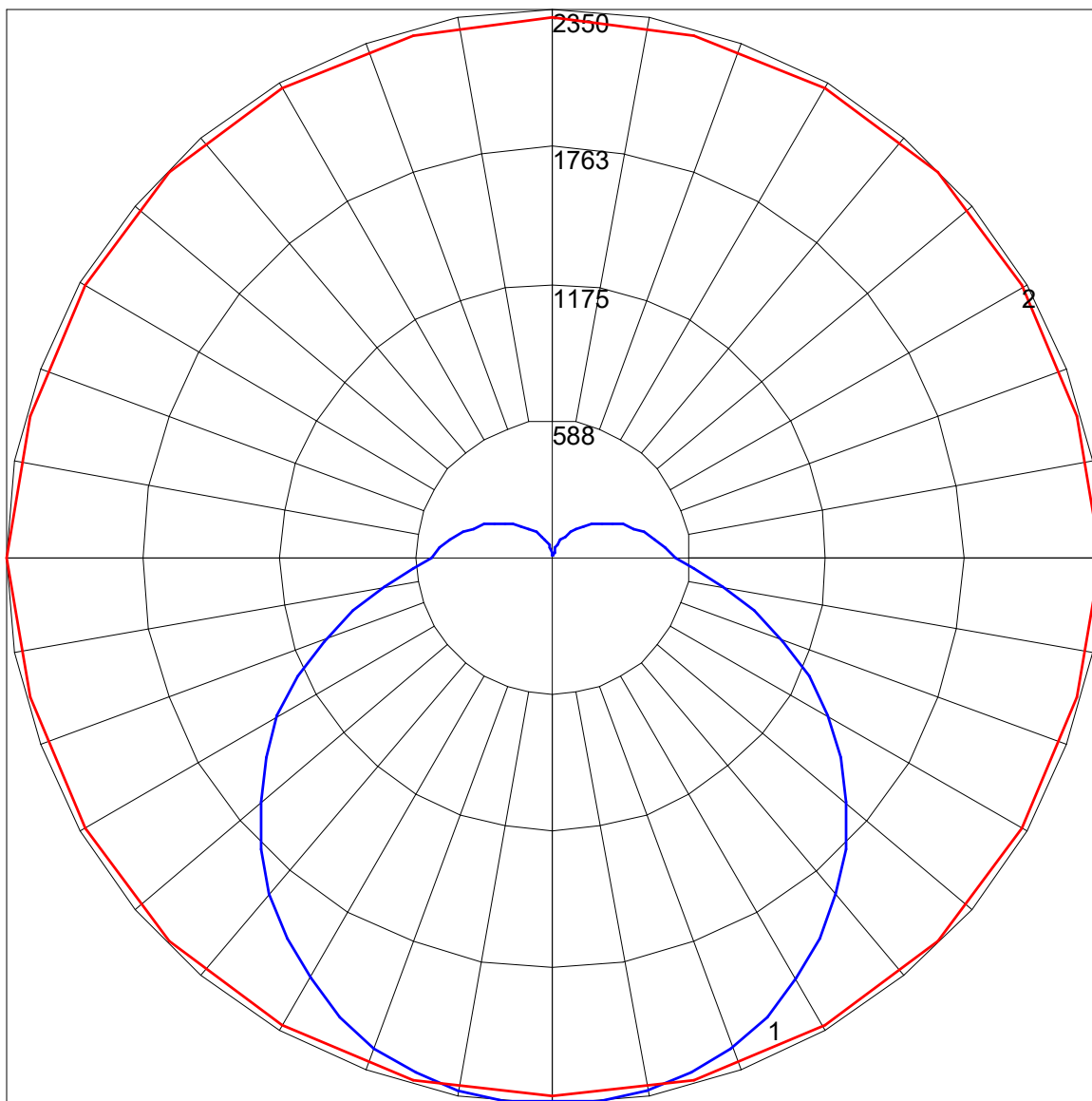
Reflectances

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	21.9	23.4	22.5	23.9	24.5	21.5	23.0	22.1	23.5	24.1
	3H	24.0	25.3	24.6	25.9	26.5	23.2	24.6	23.8	25.1	25.8
	4H	24.9	26.2	25.5	26.7	27.4	23.9	25.1	24.4	25.7	26.3
	6H	25.7	26.9	26.3	27.5	28.1	24.3	25.4	24.8	26.0	26.7
	8H	26.1	27.2	26.7	27.8	28.5	24.4	25.5	25.0	26.1	26.7
	12H	26.4	27.5	27.0	28.1	28.8	24.4	25.5	25.0	26.1	26.8
4H	2H	22.5	23.8	23.1	24.3	25.0	22.2	23.5	22.8	24.0	24.7
	3H	24.9	25.9	25.4	26.5	27.2	24.2	25.2	24.7	25.8	26.5
	4H	25.9	26.9	26.5	27.5	28.2	24.9	25.9	25.5	26.5	27.2
	6H	26.9	27.8	27.5	28.4	29.1	25.5	26.3	26.1	26.9	27.7
	8H	27.4	28.2	28.0	28.8	29.5	25.6	26.4	26.2	27.0	27.8
	12H	27.8	28.5	28.4	29.2	29.9	25.7	26.4	26.3	27.1	27.8
8H	4H	26.2	27.0	26.9	27.7	28.4	25.4	26.2	26.0	26.8	27.5
	6H	27.4	28.1	28.1	28.8	29.5	26.1	26.8	26.7	27.4	28.2
	8H	28.0	28.6	28.7	29.3	30.0	26.3	26.9	27.0	27.6	28.4
	12H	28.6	29.1	29.3	29.8	30.6	26.5	27.1	27.2	27.7	28.5
12H	4H	26.3	27.0	26.9	27.7	28.4	25.5	26.2	26.1	26.8	27.6
	6H	27.5	28.1	28.2	28.8	29.5	26.2	26.9	26.9	27.5	28.3
	8H	28.1	28.7	28.8	29.4	30.2	26.6	27.1	27.3	27.8	28.6

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 2350.01 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.)