



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GSR96L73W8600LDMV40K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LCZP19040103
 [TESTLAB] LCTECH
 [TESTDATE] 2019/4/19
 [ISSUE DATE] 2019/4/19
 [MANUFAC] Savegreen
 [LUMCAT] GSR96L73W8600LDMV40K
 [LUMINAIRE] Direct Linear Ambient Luminaires
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	9395.62 (1 lamp)
Total Lamp Lumens	9395.62
Luminaire Lumens	9396
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	73.34
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	28809	24091	23682
55	27192	22095	21833
65	24543	19700	19970
75	19212	16738	17591
85	9027	13798	15474

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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	2508.127	2508.127	2508.127	2508.127	2508.127	2508.127	2508.127
5	2496.073	2496.957	2497.678	2498.594	2502.421	2502.941	2523.310
10	2457.467	2460.064	2466.710	2471.653	2478.255	2480.990	2503.347
15	2397.111	2401.563	2411.158	2426.125	2438.215	2445.691	2463.927
20	2311.924	2323.210	2338.735	2358.963	2376.701	2386.740	2409.938
25	2210.062	2221.165	2244.067	2276.133	2297.790	2314.781	2339.709
30	2086.450	2101.011	2131.639	2174.656	2202.587	2226.205	2253.145
35	1942.810	1968.867	2006.671	2059.380	2093.008	2120.375	2150.043
40	1788.749	1820.463	1864.255	1930.314	1972.638	2010.416	2033.475
45	1629.340	1659.034	1715.666	1786.580	1840.746	1880.570	1909.850
50	1445.372	1483.472	1551.483	1633.165	1697.354	1741.210	1770.375
55	1260.498	1300.931	1381.535	1474.843	1549.243	1600.935	1621.342
60	1055.867	1106.717	1200.667	1306.455	1385.392	1442.717	1471.908
65	852.778	905.307	1014.666	1128.988	1216.400	1280.775	1310.394
70	637.273	709.773	827.756	950.684	1045.390	1112.829	1137.501
75	424.215	513.028	642.401	772.073	872.681	942.447	967.239
80	232.362	330.804	472.447	605.519	711.039	781.464	805.343
85	78.935	180.053	330.422	462.860	566.773	637.836	660.419
90	9.787	101.278	244.910	376.930	481.574	550.016	572.289
95	7.160	79.139	210.195	337.746	438.872	505.431	530.311
100	6.798	65.285	182.232	302.251	397.825	461.703	485.575
105	6.072	56.048	159.613	269.954	359.443	419.994	441.275
110	5.528	49.212	140.549	240.347	322.837	378.459	398.135
115	5.166	43.824	124.318	212.768	287.364	338.140	358.216
120	5.074	38.800	109.753	188.202	255.258	300.694	317.749
125	4.984	34.361	96.625	165.617	224.000	264.014	280.490
130	4.894	30.286	84.123	144.652	195.889	230.830	243.318
135	5.256	26.258	72.705	124.312	167.822	197.517	208.463
140	5.618	22.591	61.734	105.058	142.181	167.029	177.095
145	6.254	19.242	51.302	88.052	118.376	138.924	146.963
150	6.798	15.529	41.185	71.089	96.239	112.116	118.534
155	7.704	12.586	31.158	54.217	75.448	87.740	92.952
160	8.609	11.228	23.558	38.332	54.427	64.209	67.636
165	9.063	10.911	16.905	26.002	35.073	43.330	45.891
170	9.879	10.911	12.770	16.377	20.160	25.054	27.191
175	10.331	10.731	11.288	11.880	12.128	12.262	13.114
180	10.221	10.221	10.221	10.221	10.221	10.221	10.221

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	922.61	9.80	9.80
0-30	1969.88	21.00	21.00
0-40	3252.75	34.60	34.60
0-60	5925.51	63.10	63.10
0-80	7804.37	83.10	83.10
0-90	8284.25	88.20	88.20
10-90	8046.42	85.60	85.60
20-40	2330.14	24.80	24.80
20-50	3699.93	39.40	39.40
40-70	3766.75	40.10	40.10
60-80	1878.86	20.00	20.00
70-80	784.88	8.40	8.40
80-90	479.88	5.10	5.10
90-110	598.79	6.40	6.40
90-120	796.04	8.50	8.50
90-130	935.33	10.00	10.00
90-150	1077.67	11.50	11.50
90-180	1111.37	11.80	11.80
110-180	512.58	5.50	5.50
0-180	9395.62	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	237.84
10-20	684.77
20-30	1047.27
30-40	1282.87
40-50	1369.79
50-60	1302.97
60-70	1093.98
70-80	784.88
80-90	479.88
90-100	335.64
100-110	263.15
110-120	197.25
120-130	139.29
130-140	90.36
140-150	51.98
150-160	24.44
160-170	7.96
170-180	1.30

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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	20.7	22.2	21.3	22.7	23.3	23.2	24.7	23.8	25.2	25.8
	3H	22.2	23.5	22.7	24.0	24.7	25.7	27.1	26.3	27.6	28.2
	4H	22.6	23.9	23.2	24.4	25.1	26.9	28.2	27.5	28.7	29.4
	6H	22.9	24.0	23.4	24.6	25.3	28.1	29.3	28.7	29.8	30.5
	8H	22.9	24.0	23.5	24.6	25.3	28.7	29.8	29.3	30.4	31.1
	12H	22.9	24.0	23.5	24.6	25.3	29.4	30.4	30.0	31.0	31.7

UGR Viewed Endwise

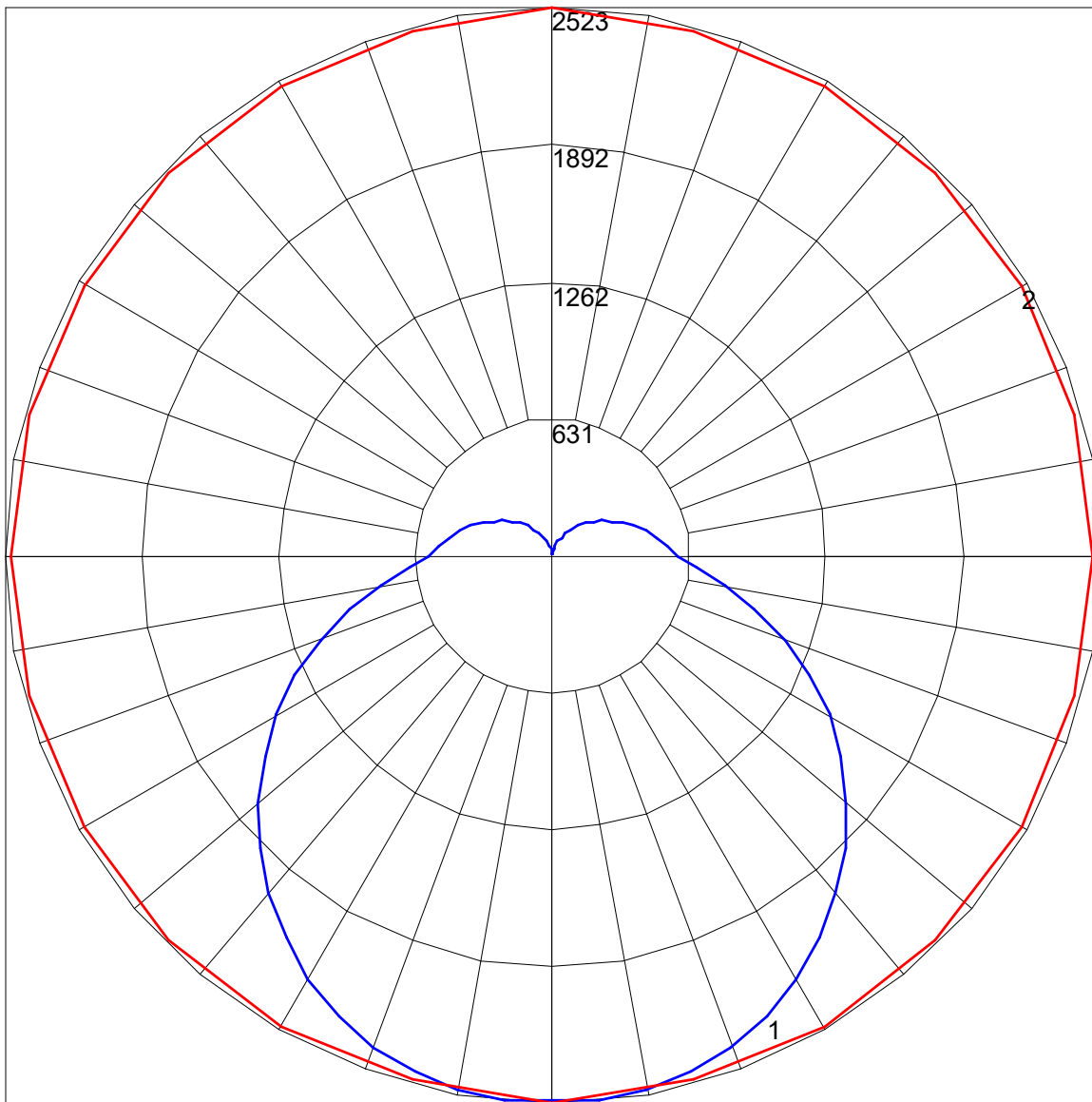
4H	2H	21.7	23.0	22.3	23.5	24.2	23.7	24.9	24.2	25.5	26.1
	3H	23.4	24.4	24.0	25.1	25.7	26.3	27.4	26.9	28.0	28.7
	4H	24.0	24.9	24.6	25.5	26.2	27.7	28.6	28.3	29.3	30.0
	6H	24.3	25.2	24.9	25.8	26.5	29.1	29.9	29.7	30.5	31.3
	8H	24.4	25.2	25.0	25.8	26.6	29.8	30.6	30.4	31.2	31.9
	12H	24.4	25.1	25.1	25.8	26.5	30.5	31.3	31.2	31.9	32.6

8H	4H	24.7	25.5	25.3	26.1	26.8	27.9	28.7	28.5	29.3	30.0
	6H	25.2	25.9	25.8	26.6	27.3	29.4	30.1	30.0	30.7	31.5
	8H	25.4	26.0	26.0	26.7	27.4	30.2	30.8	30.9	31.5	32.3
	12H	25.4	26.0	26.1	26.7	27.5	31.1	31.7	31.8	32.4	33.2

12H	4H	24.8	25.6	25.5	26.2	27.0	27.9	28.6	28.5	29.3	30.0
	6H	25.5	26.1	26.2	26.8	27.5	29.4	30.0	30.1	30.7	31.5
	8H	25.7	26.3	26.4	27.0	27.8	30.3	30.8	31.0	31.5	32.3

Maximum UGR = 33.2

POLAR GRAPH



Maximum Candela = 2523.31 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.)