



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2SAWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2021.0.0 see: www.ltiophics.com/ies
 [ISSUEDATE]
 [TESTDATE] Tue Jun 22 11:26:19 2021
 [TEST] 1
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE] BS100LEDPG2SAHOWT40120-277V_P
 [LAMP] LED 0.915W DURIS S 5 3030 (150mA)
 [LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	3.16
Spacing Criterion (Diagonal)	2.50
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.32 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	770	1205	1456
55	776	1268	1882
65	751	1481	2132
75	626	1603	2146
85	453	1537	2189

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	73.164	73.164	73.164	73.164	73.164	73.164	73.164	73.164	73.164	73.164
5	78.000	75.968	73.426	75.260	70.774	75.869	73.756	79.649	76.824	78.494
10	74.974	73.920	74.185	76.082	77.431	80.153	81.918	83.300	88.824	87.868
15	73.459	76.367	76.944	80.900	86.239	86.167	93.838	98.211	103.256	109.309
20	76.301	76.475	78.016	84.085	92.161	100.542	108.273	116.105	125.087	133.718
25	76.131	78.313	82.914	87.867	97.446	109.197	118.783	130.948	139.180	150.737
30	79.202	79.127	83.745	93.232	105.206	119.777	132.378	143.989	150.664	160.464
35	75.937	78.134	86.762	97.668	111.404	126.203	137.119	146.563	156.405	162.298
40	74.206	77.746	86.463	99.940	111.980	124.776	135.743	143.448	151.789	156.290
45	72.943	75.025	86.380	98.449	110.424	123.203	133.524	138.183	147.795	150.588
50	68.915	71.498	81.808	93.761	105.627	116.631	126.371	131.265	139.525	147.230
55	62.748	66.976	75.716	87.381	98.034	110.527	115.745	125.464	134.847	146.891
60	56.645	59.602	69.161	76.835	88.141	99.401	108.410	122.774	134.851	152.083
65	48.481	51.026	57.166	65.549	77.102	89.802	104.327	119.592	136.272	152.809
70	38.319	40.461	46.267	55.441	65.531	80.219	96.375	116.431	133.042	150.914
75	28.960	30.156	36.039	42.599	55.322	71.236	89.288	109.080	125.451	140.105
80	19.848	21.029	25.868	34.068	45.364	60.392	77.949	94.483	110.194	126.230
85	12.012	13.811	18.162	26.064	36.194	50.049	64.239	79.810	94.539	106.061
90	7.169	8.274	11.932	18.511	27.166	39.290	51.283	64.383	77.589	87.588
95	3.618	4.143	6.324	10.641	17.426	26.281	35.602	45.242	52.780	61.989
100	2.303	2.444	2.948	5.296	9.521	14.269	20.566	26.645	30.765	35.326
105	1.354	1.232	1.613	2.197	4.057	6.854	9.430	13.037	15.732	19.092
110	0.731	0.874	0.813	0.925	1.656	2.901	4.714	6.913	8.159	10.256
115	0.675	0.493	0.609	0.578	0.767	1.142	2.009	2.946	3.672	5.064
120	0.343	0.356	0.349	0.381	0.406	0.426	0.647	1.303	1.623	2.555
125	0.356	0.357	0.234	0.203	0.253	0.181	0.269	0.433	0.829	1.317
130	0.125	0.172	0.118	0.102	0.045	0.067	0.108	0.122	0.224	0.427
135	0.087	0.046	0.059	0.010	0.046	0.032	0.062	0.069	0.085	0.116
140	0.001	0.003	0.036	0.000	0.024	0.000	0.000	0.010	0.056	0.027
145	0.055	0.013	0.000	0.000	0.000	0.000	0.011	0.000	0.000	0.000
150	0.000	0.000	0.001	0.000	0.007	0.000	0.000	0.001	0.007	0.018
155	0.028	0.004	0.000	0.014	0.000	0.000	0.015	0.003	0.028	0.000
160	0.000	0.000	0.000	0.001	0.018	0.004	0.000	0.015	0.000	0.000
165	0.000	0.000	0.006	0.000	0.000	0.004	0.000	0.001	0.000	0.000
170	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.056	0.000	0.000	0.004	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	73.164	73.164	73.164	73.164	73.164	73.164	73.164	73.164	73.164
5	83.322	76.212	84.309	84.608	82.449	83.766	82.209	82.071	89.869
10	92.145	98.512	101.706	98.834	104.114	103.181	104.810	106.618	105.451
15	115.570	122.107	127.690	134.536	138.032	134.770	139.548	141.739	143.826
20	139.566	145.198	154.448	161.407	161.850	165.081	167.328	169.331	168.756
25	158.134	167.412	170.601	175.241	177.292	179.369	180.615	182.024	180.685
30	166.720	167.887	173.422	177.740	181.181	181.460	183.134	183.709	191.820
35	164.956	168.861	171.606	174.726	175.486	180.104	178.024	184.220	183.541
40	159.396	165.218	166.915	167.712	172.612	180.092	183.547	182.160	179.729
45	154.090	160.055	164.837	169.693	177.993	182.470	188.777	189.582	190.203
50	152.222	163.346	169.613	179.203	188.987	196.461	201.338	208.422	212.293
55	156.265	170.017	181.964	193.371	205.986	212.906	219.453	228.431	230.467
60	166.298	181.516	194.411	206.160	217.113	226.409	234.314	236.179	241.830

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65	168.186	181.706	197.007	209.332	220.864	226.617	233.673	236.464	235.633
70	166.663	178.146	186.813	198.464	205.219	212.016	217.711	223.427	224.052
75	150.010	161.770	171.457	179.777	187.040	193.640	199.529	202.660	204.452
80	133.841	144.103	152.519	162.579	167.531	174.884	181.034	184.107	185.773
85	117.341	126.123	134.868	141.508	150.069	155.511	162.319	166.586	168.752
90	95.959	105.213	112.134	121.164	127.212	132.777	139.320	139.565	142.456
95	66.856	75.957	79.369	86.503	90.110	95.725	98.097	102.393	103.299
100	38.997	43.936	46.712	50.162	53.057	55.602	57.938	59.049	59.149
105	20.562	23.689	25.988	27.566	28.889	30.926	31.926	33.032	33.149
110	11.942	12.648	13.758	16.211	17.006	17.150	18.278	19.170	18.567
115	6.327	7.490	8.473	9.013	10.209	10.391	11.061	11.680	10.443
120	3.578	3.693	4.526	4.777	5.254	5.818	6.418	6.503	6.889
125	1.806	2.024	2.407	2.899	3.056	3.193	3.597	3.504	3.368
130	0.654	0.823	1.134	1.393	1.533	1.917	1.828	2.171	2.153
135	0.246	0.386	0.643	0.731	0.871	0.988	1.084	1.033	1.103
140	0.076	0.178	0.141	0.248	0.354	0.319	0.398	0.510	0.470
145	0.043	0.015	0.108	0.101	0.104	0.074	0.080	0.109	0.049
150	0.008	0.011	0.032	0.041	0.043	0.031	0.013	0.050	0.039
155	0.017	0.013	0.000	0.017	0.000	0.014	0.015	0.017	0.000
160	0.000	0.000	0.000	0.015	0.000	0.000	0.010	0.022	0.029
165	0.035	0.000	0.000	0.022	0.000	0.020	0.000	0.004	0.000
170	0.000	0.000	0.062	0.006	0.031	0.000	0.018	0.000	0.000
175	0.000	0.000	0.003	0.000	0.000	0.004	0.090	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	39.30	N.A.	4.30
0-30	103.46	N.A.	11.30
0-40	194.82	N.A.	21.40
0-60	439.64	N.A.	48.20
0-80	717.79	N.A.	78.70
0-90	822.33	N.A.	90.20
10-90	814.45	N.A.	89.30
20-40	155.51	N.A.	17.10
20-50	267.09	N.A.	29.30
40-70	390.43	N.A.	42.80
60-80	278.16	N.A.	30.50
70-80	132.55	N.A.	14.50
80-90	104.53	N.A.	11.50
90-110	81.60	N.A.	9.00
90-120	87.43	N.A.	9.60
90-130	88.98	N.A.	9.80
90-150	89.35	N.A.	9.80
90-180	89.36	N.A.	9.80
110-180	7.76	N.A.	0.90
0-180	911.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.87
10-20	31.43
20-30	64.15
30-40	91.36
40-50	111.57
50-60	133.24
60-70	145.61
70-80	132.55
80-90	104.53
90-100	61.21
100-110	20.39
110-120	5.83
120-130	1.55
130-140	0.34
140-150	0.04
150-160	0.00
160-170	0.00
170-180	0.00

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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	106	106	106	99	99	99	93	93	93	90
1	101	93	87	81	97	90	84	79	84	79	74	78	74	70	73	69	66	63
2	89	78	68	61	85	75	66	59	69	62	56	64	59	53	60	55	51	48
3	79	66	56	47	76	64	54	46	59	51	44	55	48	42	51	45	40	37
4	72	57	46	38	68	55	45	37	51	42	36	47	40	34	44	38	32	30
5	65	50	39	31	62	48	38	31	45	36	29	42	34	28	39	32	27	24
6	60	44	34	26	57	43	33	26	40	31	25	37	30	24	34	28	23	20
7	55	40	30	23	52	38	29	22	36	27	21	33	26	20	31	25	20	17
8	51	36	26	20	49	34	26	19	32	24	19	30	23	18	28	22	17	15
9	47	32	23	17	45	31	23	17	29	22	16	28	21	16	26	20	15	13
10	44	30	21	15	42	29	21	15	27	20	14	25	19	14	24	18	13	11

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UGR TABLE - CORRECTED

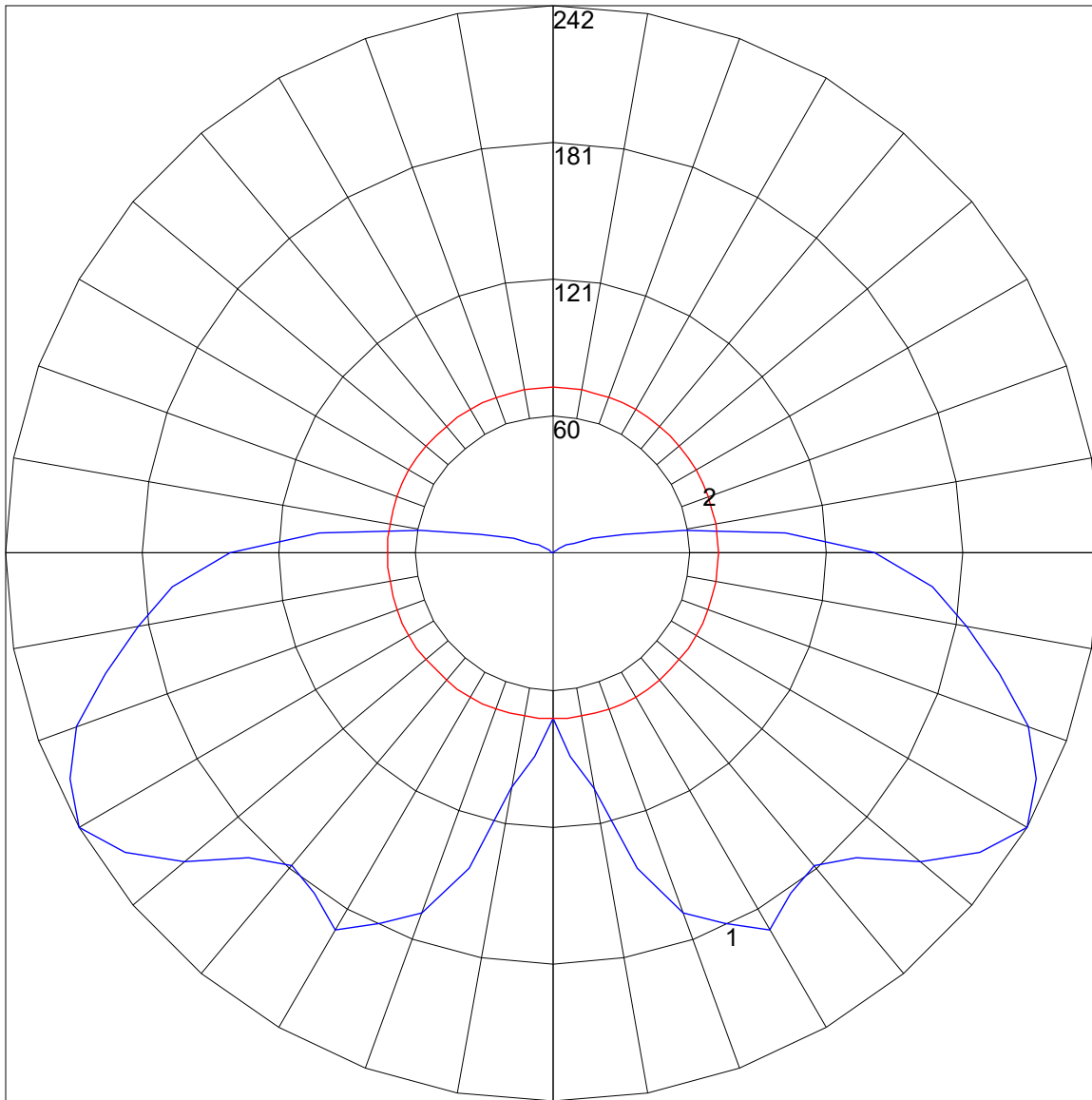
Reflectances

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	8.7	10.4	9.2	10.9	11.4	15.7	17.3	16.2	17.8	18.4
	3H	9.9	11.5	10.4	12.0	12.6	19.2	20.7	19.7	21.2	21.8
	4H	10.3	11.8	10.9	12.4	13.0	20.7	22.2	21.2	22.7	23.3
	6H	10.6	12.0	11.2	12.5	13.2	22.2	23.6	22.8	24.2	24.8
	8H	10.7	12.0	11.3	12.6	13.2	23.0	24.3	23.6	24.9	25.5
	12H	10.8	12.0	11.3	12.6	13.3	23.8	25.1	24.3	25.6	26.3
4H	2H	11.3	12.8	11.9	13.3	13.9	16.0	17.5	16.5	18.0	18.6
	3H	13.0	14.3	13.5	14.9	15.5	19.8	21.0	20.3	21.6	22.2
	4H	13.5	14.7	14.1	15.3	16.0	21.5	22.7	22.1	23.3	23.9
	6H	13.9	14.9	14.4	15.5	16.2	23.2	24.3	23.8	24.9	25.6
	8H	14.0	15.0	14.5	15.6	16.3	24.1	25.1	24.7	25.7	26.4
	12H	14.0	15.0	14.6	15.6	16.3	25.0	26.0	25.7	26.6	27.3
8H	4H	15.7	16.7	16.3	17.3	18.0	21.7	22.7	22.3	23.3	24.0
	6H	16.4	17.3	17.0	17.9	18.6	23.6	24.5	24.2	25.2	25.8
	8H	16.6	17.4	17.2	18.0	18.7	24.6	25.4	25.3	26.1	26.8
	12H	16.7	17.4	17.3	18.1	18.8	25.7	26.5	26.4	27.1	27.9
12H	4H	16.3	17.2	16.9	17.8	18.5	21.7	22.7	22.3	23.3	24.0
	6H	17.2	18.0	17.9	18.6	19.4	23.7	24.5	24.3	25.1	25.8
	8H	17.6	18.3	18.2	18.9	19.7	24.7	25.5	25.4	26.1	26.9

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 241.83 Located At Horizontal Angle = 90, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)