



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTLOWT30120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2021.0.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Mon Jun 21 14:38:11 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG2HTLOWT30120-277V\_S

[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	3510
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	3.04
Spacing Criterion (Diagonal)	2.42
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	2911	4634	5637
55	3118	4838	7280
65	2910	5763	8356
75	2378	6083	8196
85	1912	5905	8289

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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>
<b>0</b>	300.397	300.397	300.397	300.397	300.397	300.397	300.397	300.397	300.397	300.397
<b>5</b>	264.851	309.768	287.178	288.355	288.274	293.107	304.032	294.985	305.758	318.246
<b>10</b>	284.375	295.564	280.091	291.554	306.925	320.835	317.779	325.952	335.678	346.410
<b>15</b>	287.980	297.463	297.026	301.818	322.845	334.511	344.430	385.245	404.628	422.669
<b>20</b>	299.026	297.280	305.250	321.018	344.359	381.387	404.181	444.823	490.431	518.615
<b>25</b>	304.590	304.316	319.220	348.116	374.707	423.522	459.291	496.329	552.465	571.137
<b>30</b>	291.746	301.737	322.348	353.375	406.130	448.549	512.848	557.146	593.687	610.409
<b>35</b>	285.807	309.727	325.465	374.575	423.685	480.846	526.362	566.761	594.722	613.322
<b>40</b>	289.015	299.930	341.303	383.956	436.528	484.643	526.799	552.425	580.183	605.809
<b>45</b>	275.887	294.285	334.288	381.418	434.163	475.435	508.879	538.515	555.217	578.904
<b>50</b>	266.313	278.852	316.845	360.685	414.263	453.027	488.369	509.122	531.053	562.669
<b>55</b>	252.160	258.211	290.721	334.044	381.001	417.126	457.352	486.268	527.865	560.263
<b>60</b>	223.569	230.311	264.212	298.356	341.537	374.290	421.735	470.866	529.753	576.721
<b>65</b>	187.770	196.613	224.686	256.130	291.523	344.786	406.689	464.256	525.976	594.631
<b>70</b>	145.289	158.021	177.799	210.675	257.967	311.311	369.143	438.823	514.737	575.259
<b>75</b>	109.916	117.308	134.111	168.245	213.304	275.887	338.684	411.430	477.536	531.814
<b>80</b>	75.213	82.422	98.474	130.568	172.692	232.534	295.787	362.076	420.487	472.571
<b>85</b>	50.694	53.161	68.309	97.875	140.071	190.623	251.246	304.651	360.584	407.460
<b>90</b>	26.784	31.271	45.333	67.599	103.073	148.813	195.719	246.779	293.604	338.146
<b>95</b>	13.564	16.986	24.763	40.927	66.736	98.961	135.370	172.763	202.796	229.945
<b>100</b>	7.046	8.945	10.224	19.849	35.739	57.608	76.523	97.692	118.699	137.614
<b>105</b>	5.564	5.493	4.477	9.128	16.742	26.652	38.104	50.004	61.893	74.635
<b>110</b>	2.812	3.076	3.533	3.706	6.132	11.432	19.494	24.591	30.784	40.115
<b>115</b>	2.457	2.477	2.376	1.675	2.467	3.909	7.036	11.168	15.971	18.560
<b>120</b>	1.178	1.543	0.954	1.462	1.188	1.990	2.660	4.945	7.341	9.909
<b>125</b>	0.772	0.863	0.782	0.904	0.518	0.883	1.137	1.442	3.127	4.386
<b>130</b>	0.244	0.579	0.264	0.325	0.396	0.548	0.355	0.366	0.548	1.614
<b>135</b>	0.000	0.162	0.386	0.030	0.183	0.122	0.213	0.213	0.234	0.426
<b>140</b>	0.000	0.081	0.091	0.000	0.061	0.081	0.000	0.051	0.081	0.183
<b>145</b>	0.000	0.000	0.000	0.000	0.030	0.102	0.041	0.030	0.051	0.041
<b>150</b>	0.081	0.000	0.000	0.061	0.000	0.000	0.010	0.041	0.000	0.061
<b>155</b>	0.000	0.010	0.000	0.000	0.041	0.000	0.000	0.020	0.051	0.000
<b>160</b>	0.000	0.041	0.071	0.091	0.000	0.000	0.000	0.000	0.071	0.000
<b>165</b>	0.173	0.000	0.000	0.000	0.000	0.000	0.264	0.000	0.000	0.010
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.345	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	300.397	300.397	300.397	300.397	300.397	300.397	300.397	300.397	300.397
<b>5</b>	297.554	324.236	308.083	305.544	323.028	330.003	320.479	341.984	333.496
<b>10</b>	374.077	374.097	381.428	396.241	388.961	410.476	414.811	421.583	421.207
<b>15</b>	446.042	460.195	476.430	517.031	528.190	529.185	536.231	541.734	513.153
<b>20</b>	539.571	567.248	600.956	599.596	636.948	627.577	654.026	643.426	647.853
<b>25</b>	598.174	631.385	651.782	667.184	684.586	696.506	697.521	716.700	709.928
<b>30</b>	634.806	643.974	663.397	688.861	678.921	696.821	714.852	719.655	690.780
<b>35</b>	640.573	641.264	649.000	688.211	674.829	703.440	707.228	709.045	711.522
<b>40</b>	615.211	627.202	639.883	653.731	685.297	690.282	708.253	710.081	716.853
<b>45</b>	606.855	611.505	645.670	667.722	686.861	704.385	726.478	737.138	736.438
<b>50</b>	589.422	623.658	658.503	694.658	726.143	751.535	790.391	812.402	815.215
<b>55</b>	608.652	664.900	709.796	753.891	800.960	836.384	860.223	881.179	891.413
<b>60</b>	635.395	692.150	741.748	788.066	839.968	881.788	908.876	928.289	929.304

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	652.848	700.953	747.373	796.432	834.363	863.035	895.545	922.481	923.547
<b>70</b>	625.577	682.759	723.625	767.557	789.650	820.880	837.389	845.907	871.909
<b>75</b>	580.934	623.912	660.646	693.755	722.041	735.077	756.236	780.644	780.735
<b>80</b>	514.229	558.882	589.869	622.927	647.985	666.433	695.968	709.441	705.238
<b>85</b>	451.869	483.973	522.514	555.369	583.574	597.250	619.049	637.822	638.918
<b>90</b>	369.143	405.318	437.564	460.601	484.643	503.782	523.600	533.753	540.018
<b>95</b>	267.328	289.838	309.007	330.805	347.771	363.924	375.204	388.271	394.779
<b>100</b>	155.859	168.154	179.434	192.278	206.370	213.071	219.213	221.975	225.315
<b>105</b>	84.057	91.245	98.271	104.901	110.922	118.343	120.547	121.521	125.989
<b>110</b>	45.069	50.105	56.055	60.806	64.228	69.213	69.487	69.497	74.817
<b>115</b>	24.448	27.322	32.723	35.221	38.155	38.470	44.206	43.110	42.988
<b>120</b>	12.366	15.392	17.930	20.093	21.250	23.118	23.565	26.509	26.235
<b>125</b>	6.660	7.940	9.666	10.691	11.818	13.382	13.910	14.143	14.549
<b>130</b>	3.036	4.102	5.219	6.163	7.168	7.107	7.320	8.478	9.483
<b>135</b>	0.924	1.472	2.640	2.640	2.995	3.614	4.041	3.777	3.970
<b>140</b>	0.315	0.335	0.528	1.208	1.157	1.432	1.970	1.685	1.066
<b>145</b>	0.051	0.102	0.396	0.264	0.193	0.396	0.447	0.477	0.701
<b>150</b>	0.041	0.061	0.000	0.102	0.112	0.061	0.041	0.102	0.132
<b>155</b>	0.051	0.000	0.000	0.071	0.000	0.102	0.000	0.071	0.244
<b>160</b>	0.000	0.000	0.071	0.000	0.081	0.000	0.132	0.041	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.254	0.000	0.041	0.091	0.000
<b>170</b>	0.000	0.000	0.000	0.142	0.000	0.000	0.000	0.000	0.325
<b>175</b>	0.000	0.000	0.000	0.000	0.020	0.000	0.020	0.000	0.000
<b>180</b>	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	151.69	N.A.	4.30
0-30	398.55	N.A.	11.40
0-40	750.51	N.A.	21.40
0-60	1698.3	N.A.	48.40
0-80	2766.91	N.A.	78.80
0-90	3167.99	N.A.	90.20
10-90	3137.12	N.A.	89.40
20-40	598.82	N.A.	17.10
20-50	1030.54	N.A.	29.40
40-70	1508.15	N.A.	43.00
60-80	1068.6	N.A.	30.40
70-80	508.24	N.A.	14.50
80-90	401.08	N.A.	11.40
90-110	312.39	N.A.	8.90
90-120	334.80	N.A.	9.50
90-130	340.89	N.A.	9.70
90-150	342.35	N.A.	9.80
90-180	342.38	N.A.	9.80
110-180	29.99	N.A.	0.90
0-180	3510.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	30.87
10-20	120.82
20-30	246.87
30-40	351.96
40-50	431.72
50-60	516.07
60-70	560.36
70-80	508.24
80-90	401.08
90-100	234.14
100-110	78.25
110-120	22.41
120-130	6.09
130-140	1.32
140-150	0.15
150-160	0.02
160-170	0.01
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	67	63
2	89	78	69	61	85	75	66	59	69	62	56	65	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	33	30
5	65	50	39	32	62	48	38	31	45	36	30	42	34	28	39	32	27	24
6	60	44	34	27	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	35	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**

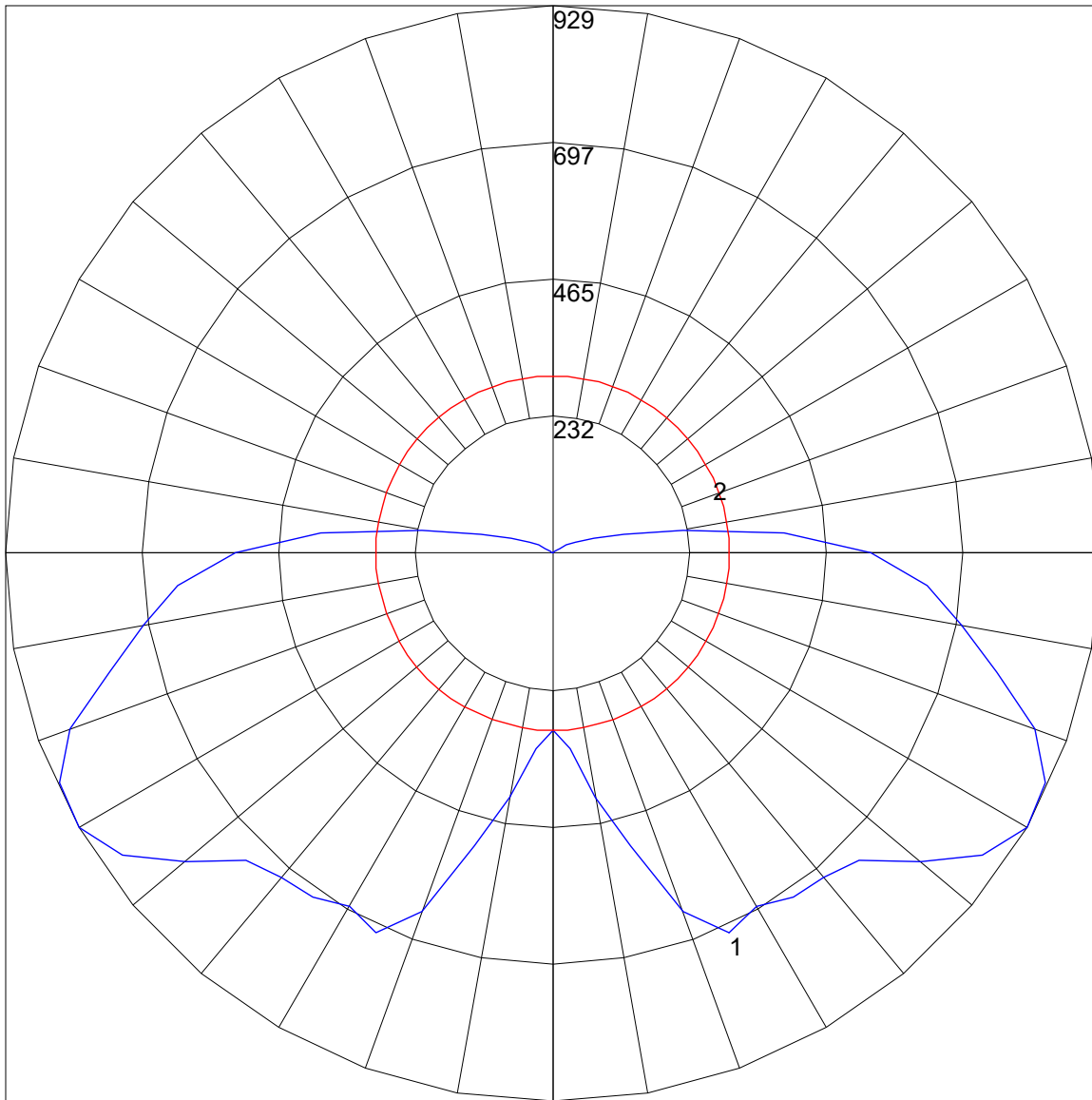
Reflectances

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	13.4	15.1	14.0	15.6	16.2	20.5	22.1	21.0	22.6	23.2
	3H	14.7	16.2	15.2	16.7	17.3	23.9	25.4	24.4	26.0	26.5
	4H	15.1	16.6	15.6	17.1	17.7	25.4	26.9	25.9	27.4	28.0
	6H	15.4	16.7	15.9	17.3	17.9	27.0	28.3	27.5	28.9	29.5
	8H	15.4	16.8	16.0	17.3	18.0	27.7	29.0	28.3	29.6	30.2
	12H	15.5	16.8	16.1	17.3	18.0	28.5	29.8	29.0	30.3	31.0
4H	2H	16.1	17.6	16.6	18.1	18.7	20.8	22.3	21.3	22.8	23.4
	3H	17.7	19.0	18.3	19.6	20.2	24.5	25.8	25.0	26.3	27.0
	4H	18.3	19.5	18.8	20.0	20.7	26.2	27.4	26.8	28.0	28.6
	6H	18.6	19.7	19.2	20.3	20.9	28.0	29.0	28.5	29.6	30.3
	8H	18.7	19.7	19.3	20.3	21.0	28.8	29.8	29.4	30.4	31.1
	12H	18.8	19.7	19.4	20.3	21.0	29.7	30.7	30.3	31.3	32.0
8H	4H	20.4	21.4	21.0	22.0	22.7	26.4	27.4	27.0	28.0	28.7
	6H	21.1	21.9	21.7	22.6	23.3	28.3	29.2	29.0	29.9	30.5
	8H	21.3	22.1	21.9	22.7	23.4	29.3	30.2	30.0	30.8	31.5
	12H	21.4	22.1	22.0	22.8	23.5	30.5	31.2	31.1	31.8	32.6
12H	4H	21.0	21.9	21.6	22.5	23.2	26.4	27.4	27.0	28.0	28.7
	6H	21.9	22.7	22.5	23.3	24.1	28.4	29.2	29.0	29.8	30.5
	8H	22.3	23.0	22.9	23.6	24.4	29.5	30.2	30.1	30.8	31.6

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 929.304 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)