



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTMOWT30120-277V\_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 14:53:46 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTMOWT30120-277V\_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	4686
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	3.06
Spacing Criterion (Diagonal)	2.44
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	4036	6164	7463
55	4027	6512	9553
65	3903	7543	11081
75	2997	8109	10906
85	2170	8028	10937

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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>	392.180	392.180	392.180	392.180	392.180	392.180	392.180	392.180	392.180	392.180
<b>5</b>	422.162	407.805	373.133	395.937	399.206	393.967	411.379	417.938	388.322	401.135
<b>10</b>	390.078	395.937	381.489	396.190	420.141	427.908	422.060	450.661	468.449	479.435
<b>15</b>	374.930	384.748	390.352	422.548	434.630	455.677	471.272	503.985	529.103	585.046
<b>20</b>	395.053	396.373	400.759	438.467	460.307	513.498	551.623	587.321	625.902	681.388
<b>25</b>	401.927	407.257	422.436	465.210	497.913	555.136	610.673	693.145	728.884	804.575
<b>30</b>	400.211	402.394	425.939	476.308	531.865	610.114	675.550	738.083	785.741	823.886
<b>35</b>	378.534	403.257	439.036	502.178	576.213	635.933	712.842	756.845	785.944	827.338
<b>40</b>	382.606	395.916	447.544	510.138	586.478	643.243	705.248	745.484	774.501	791.518
<b>45</b>	382.474	391.743	438.417	503.305	587.706	630.715	675.804	710.558	747.657	769.973
<b>50</b>	359.873	368.696	430.518	481.851	548.993	611.891	643.213	669.966	714.182	746.916
<b>55</b>	325.637	341.831	392.231	447.250	514.067	558.577	599.728	644.106	701.654	754.145
<b>60</b>	295.584	304.773	348.542	400.252	449.473	511.041	564.669	633.953	691.612	772.349
<b>65</b>	251.835	264.140	296.346	341.486	394.799	461.464	538.018	613.932	695.866	778.370
<b>70</b>	192.856	204.705	233.895	274.700	334.237	413.115	497.324	591.311	691.440	763.556
<b>75</b>	138.548	155.351	178.317	227.275	292.335	357.842	452.844	541.429	629.740	708.933
<b>80</b>	101.144	103.388	129.329	175.190	231.296	309.859	397.236	482.044	566.152	635.030
<b>85</b>	57.547	68.512	92.768	130.669	184.043	244.565	330.277	409.339	485.171	554.019
<b>90</b>	35.464	40.389	61.984	90.138	134.243	192.704	263.430	327.373	391.398	448.610
<b>95</b>	17.626	21.585	32.053	55.029	89.153	132.233	179.789	226.270	271.755	311.210
<b>100</b>	10.691	10.671	15.026	28.317	46.876	75.295	106.068	132.994	159.179	182.074
<b>105</b>	6.396	6.985	7.889	9.980	19.230	34.723	50.745	65.304	79.732	100.555
<b>110</b>	4.254	4.224	5.422	4.437	8.305	14.478	23.687	33.617	44.196	50.704
<b>115</b>	3.635	2.660	2.812	3.056	3.147	6.396	9.595	15.849	21.443	27.291
<b>120</b>	2.376	2.295	1.269	1.858	1.767	2.355	3.432	6.894	9.442	13.585
<b>125</b>	1.482	1.036	1.421	0.954	0.954	0.822	1.117	1.949	4.467	6.244
<b>130</b>	1.036	0.629	0.366	0.447	0.234	0.579	0.589	0.599	1.350	2.254
<b>135</b>	0.366	0.386	0.213	0.122	0.112	0.386	0.193	0.264	0.721	0.629
<b>140</b>	0.173	0.030	0.173	0.000	0.122	0.122	0.284	0.122	0.193	0.213
<b>145</b>	0.000	0.061	0.010	0.000	0.051	0.000	0.000	0.061	0.234	0.041
<b>150</b>	0.000	0.061	0.010	0.000	0.051	0.041	0.000	0.081	0.051	0.000
<b>155</b>	0.000	0.091	0.000	0.010	0.000	0.071	0.010	0.000	0.000	0.071
<b>160</b>	0.000	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.051	0.041
<b>165</b>	0.000	0.010	0.000	0.000	0.081	0.000	0.091	0.152	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.061	0.020	0.000	0.152	0.000	0.010	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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>	392.180	392.180	392.180	392.180	392.180	392.180	392.180	392.180	392.180
<b>5</b>	422.548	396.272	410.669	431.888	437.828	420.304	418.608	437.188	456.926
<b>10</b>	486.836	499.487	494.004	518.615	541.013	544.333	555.928	561.999	559.400
<b>15</b>	617.211	628.775	663.092	681.774	697.278	705.623	724.620	732.427	745.251
<b>20</b>	737.372	773.760	778.735	815.804	830.241	860.396	874.255	874.498	883.484
<b>25</b>	823.622	848.395	872.508	884.499	901.810	927.507	941.711	928.776	964.291
<b>30</b>	855.959	895.322	899.099	938.137	922.542	941.183	950.351	969.490	963.408
<b>35</b>	861.766	867.726	889.474	893.718	898.165	932.594	945.508	953.753	940.838
<b>40</b>	817.489	835.399	862.772	871.676	893.708	914.328	930.208	958.717	951.509
<b>45</b>	797.183	823.327	846.009	873.209	910.409	940.269	966.718	987.765	975.023
<b>50</b>	796.838	828.962	875.767	922.420	972.048	1002.010	1051.699	1074.045	1073.010
<b>55</b>	807.458	876.549	939.599	995.106	1054.440	1103.063	1149.807	1173.027	1169.747
<b>60</b>	853.086	928.888	993.583	1065.852	1119.257	1171.920	1197.678	1243.946	1238.686

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	869.168	940.178	1007.239	1072.228	1110.434	1168.986	1200.003	1224.756	1224.797
<b>70</b>	848.121	906.978	958.443	1009.939	1063.202	1086.990	1113.490	1135.704	1146.873
<b>75</b>	775.913	832.627	881.088	927.111	951.296	992.659	1019.300	1030.184	1038.804
<b>80</b>	680.515	744.509	783.730	841.684	868.650	905.851	916.532	942.259	959.235
<b>85</b>	597.870	655.021	695.633	741.667	778.532	797.742	831.693	840.638	843.075
<b>90</b>	490.958	549.044	578.142	622.216	660.910	690.201	707.908	713.360	725.899
<b>95</b>	350.207	385.641	418.121	443.118	470.896	481.689	507.548	515.915	520.565
<b>100</b>	206.522	227.783	240.860	261.683	280.121	287.279	295.574	297.026	302.996
<b>105</b>	110.647	120.983	132.497	150.051	149.188	157.280	162.103	165.930	167.017
<b>110</b>	61.415	67.172	74.076	80.737	90.118	90.544	94.636	98.017	101.093
<b>115</b>	32.185	37.089	41.922	45.100	48.978	56.045	57.760	58.755	58.674
<b>120</b>	17.666	20.154	23.910	27.220	29.403	30.144	32.804	31.799	35.637
<b>125</b>	8.325	10.945	12.671	15.493	14.854	17.108	19.037	17.301	17.687
<b>130</b>	3.686	5.351	6.092	7.016	7.919	10.417	9.381	9.919	10.204
<b>135</b>	1.015	2.325	3.015	3.736	3.675	4.417	5.736	6.681	5.310
<b>140</b>	0.386	0.640	0.579	1.147	1.168	1.726	2.122	2.386	2.731
<b>145</b>	0.132	0.223	0.508	0.325	0.234	0.315	0.244	0.274	0.609
<b>150</b>	0.081	0.152	0.305	0.416	0.213	0.325	0.254	0.193	0.487
<b>155</b>	0.000	0.000	0.183	0.000	0.000	0.193	0.162	0.081	0.000
<b>160</b>	0.010	0.000	0.000	0.091	0.000	0.010	0.041	0.091	0.000
<b>165</b>	0.112	0.142	0.020	0.000	0.010	0.000	0.142	0.000	0.020
<b>170</b>	0.000	0.223	0.000	0.010	0.000	0.000	0.183	0.234	0.000
<b>175</b>	0.000	0.000	0.183	0.000	0.000	0.000	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	203.76	N.A.	4.30
0-30	534.94	N.A.	11.40
0-40	1005.64	N.A.	21.50
0-60	2266.19	N.A.	48.40
0-80	3691.01	N.A.	78.80
0-90	4226.74	N.A.	90.20
10-90	4185.49	N.A.	89.30
20-40	801.88	N.A.	17.10
20-50	1375.95	N.A.	29.40
40-70	2008.07	N.A.	42.90
60-80	1424.82	N.A.	30.40
70-80	677.31	N.A.	14.50
80-90	535.73	N.A.	11.40
90-110	418.70	N.A.	8.90
90-120	448.87	N.A.	9.60
90-130	456.87	N.A.	9.80
90-150	458.79	N.A.	9.80
90-180	458.84	N.A.	9.80
110-180	40.14	N.A.	0.90
0-180	4685.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.25
10-20	162.51
20-30	331.18
30-40	470.70
40-50	574.07
50-60	686.48
60-70	747.52
70-80	677.31
80-90	535.73
90-100	313.58
100-110	105.12
110-120	30.17
120-130	8.00
130-140	1.73
140-150	0.19
150-160	0.03
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	66	63
2	89	78	69	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	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	21	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**

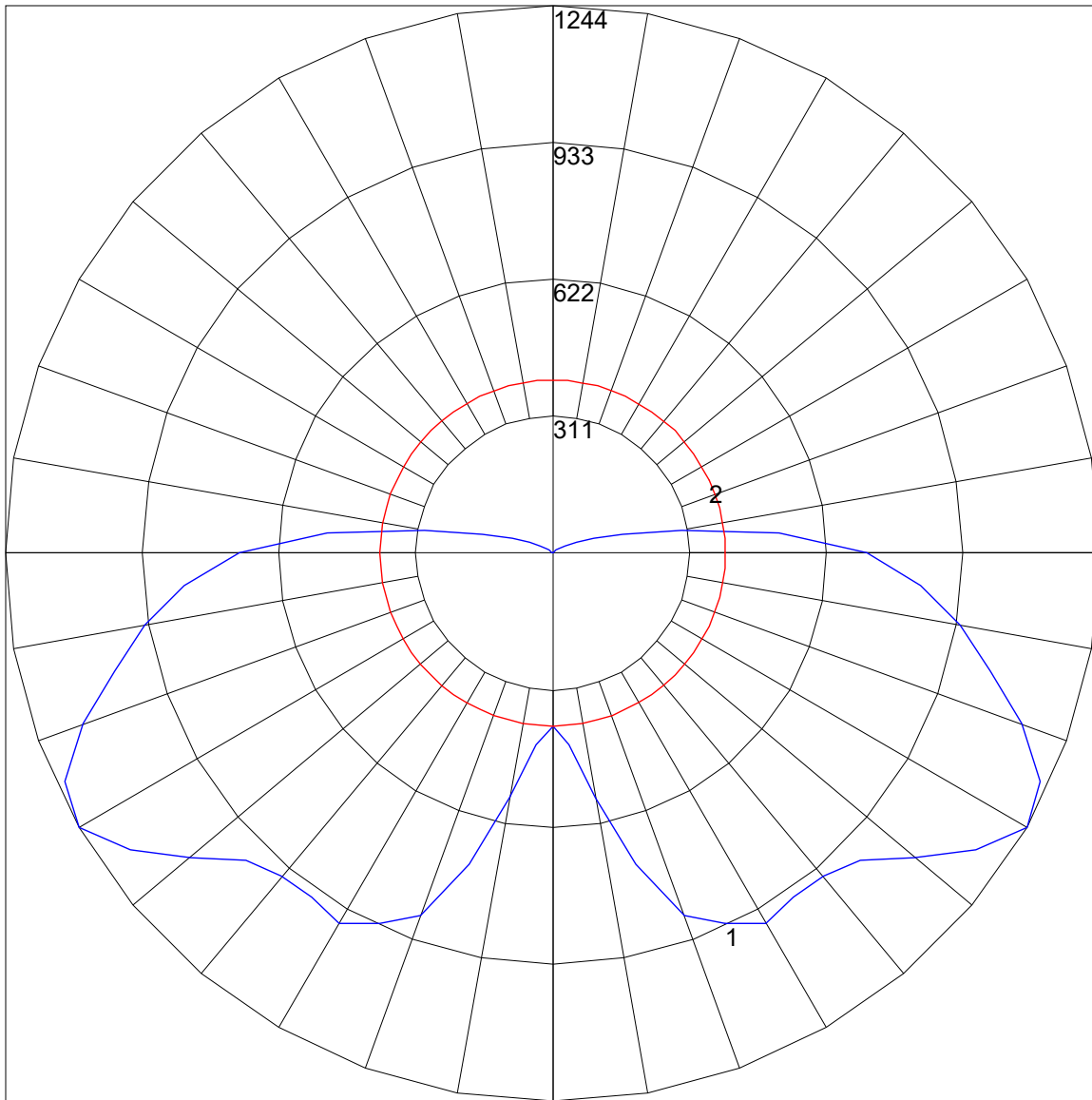
Reflectances

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	14.4	16.1	14.9	16.6	17.2	21.4	23.1	21.9	23.6	24.1
	3H	15.7	17.2	16.2	17.7	18.3	24.9	26.4	25.4	26.9	27.5
	4H	16.0	17.5	16.6	18.0	18.6	26.4	27.9	26.9	28.4	29.0
	6H	16.3	17.7	16.8	18.2	18.8	27.9	29.3	28.5	29.9	30.5
	8H	16.4	17.7	16.9	18.3	18.9	28.7	30.0	29.2	30.6	31.2
	12H	16.4	17.7	17.0	18.3	18.9	29.4	30.7	30.0	31.3	31.9
4H	2H	17.0	18.5	17.6	19.0	19.6	21.7	23.2	22.2	23.7	24.3
	3H	18.7	20.0	19.2	20.5	21.2	25.4	26.7	26.0	27.3	27.9
	4H	19.2	20.4	19.8	21.0	21.6	27.2	28.4	27.7	29.0	29.6
	6H	19.6	20.6	20.1	21.2	21.9	28.9	30.0	29.5	30.6	31.3
	8H	19.6	20.6	20.2	21.3	21.9	29.8	30.8	30.4	31.4	32.1
	12H	19.7	20.6	20.3	21.3	21.9	30.7	31.6	31.3	32.3	32.9
8H	4H	21.4	22.4	21.9	23.0	23.6	27.4	28.4	28.0	29.0	29.7
	6H	22.0	22.9	22.7	23.6	24.2	29.3	30.2	29.9	30.8	31.5
	8H	22.2	23.0	22.9	23.7	24.4	30.3	31.1	31.0	31.8	32.5
	12H	22.4	23.1	23.0	23.7	24.5	31.4	32.2	32.1	32.8	33.6
12H	4H	21.9	22.9	22.6	23.5	24.2	27.4	28.3	28.0	29.0	29.6
	6H	22.9	23.7	23.5	24.3	25.0	29.4	30.2	30.0	30.8	31.5
	8H	23.2	24.0	23.9	24.6	25.4	30.5	31.2	31.1	31.8	32.6

Maximum UGR = 33.6

POLAR GRAPH



Maximum Candela = 1243.946 Located At Horizontal Angle = 85, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)