



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTMOWT50120-277V\_S.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] Tue Jun 22 10:50:18 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTMOWT50120-277V\_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	5503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	3.10
Spacing Criterion (Diagonal)	2.46
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	4608	7365	8746
55	4748	7689	11540
65	4573	9007	12945
75	3727	9545	12737
85	2693	9244	13187

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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>	461.97	461.97	461.97	461.97	461.97	461.97	461.97	461.97	461.97	461.97
<b>5</b>	463.43	496.08	451.81	456.54	459.49	471.83	467.75	464.43	480.17	477.23
<b>10</b>	458.39	453.94	444.77	454.07	460.95	484.13	503.98	519.37	529.23	564.66
<b>15</b>	469.29	454.23	453.58	466.33	502.26	523.32	563.27	592.87	620.45	675.77
<b>20</b>	439.24	463.75	474.94	504.27	550.52	596.23	636.30	688.54	750.48	817.09
<b>25</b>	473.07	465.49	488.44	532.70	581.72	658.14	731.44	794.73	869.50	897.18
<b>30</b>	441.28	479.75	504.53	558.53	641.73	717.74	792.76	876.16	928.98	946.35
<b>35</b>	459.97	465.64	519.97	593.15	674.57	751.51	828.08	889.76	923.41	972.56
<b>40</b>	448.53	482.02	526.40	589.98	692.46	758.00	824.70	881.74	900.39	946.67
<b>45</b>	436.64	447.18	516.99	603.13	678.00	747.57	808.60	840.40	868.86	919.98
<b>50</b>	411.31	429.63	498.94	565.01	652.58	714.36	758.96	800.00	822.25	888.50
<b>55</b>	383.95	394.18	466.37	521.61	604.90	675.35	724.02	766.95	825.63	890.46
<b>60</b>	336.81	358.31	406.71	464.97	529.63	605.37	669.47	748.65	838.25	916.68
<b>65</b>	295.11	298.66	355.86	399.19	460.11	541.95	632.61	735.95	827.12	929.35
<b>70</b>	227.88	241.58	282.13	332.69	399.18	482.35	586.10	686.63	805.24	903.15
<b>75</b>	172.28	183.84	212.60	266.56	335.97	432.50	531.20	642.19	753.01	834.49
<b>80</b>	115.51	123.74	158.91	204.16	269.61	366.32	459.23	569.66	656.16	738.68
<b>85</b>	71.42	80.21	112.76	158.02	217.62	297.05	385.32	479.30	560.81	637.88
<b>90</b>	38.83	49.47	70.16	102.10	163.35	233.82	308.12	377.92	461.30	518.75
<b>95</b>	21.12	25.31	38.90	65.11	103.02	152.82	206.29	269.60	326.34	367.92
<b>100</b>	12.97	12.76	16.99	30.25	56.44	87.10	117.12	152.92	185.17	210.00
<b>105</b>	8.97	6.19	8.99	13.99	23.36	40.35	61.76	79.43	96.32	110.67
<b>110</b>	5.09	5.07	5.61	5.14	8.46	17.57	26.54	40.19	49.95	60.81
<b>115</b>	3.11	3.21	3.58	3.06	3.04	5.99	10.99	17.89	25.05	30.35
<b>120</b>	3.00	1.62	1.77	1.87	2.06	2.78	5.69	7.60	12.40	15.50
<b>125</b>	1.76	1.37	1.81	1.39	0.90	1.02	1.34	2.37	5.09	6.98
<b>130</b>	0.88	0.48	0.77	0.87	0.59	0.73	0.29	0.62	1.61	2.66
<b>135</b>	0.97	0.52	0.11	0.34	0.23	0.24	0.23	0.33	0.73	0.95
<b>140</b>	0.00	0.08	0.00	0.08	0.32	0.39	0.00	0.14	0.07	0.11
<b>145</b>	0.01	0.00	0.00	0.07	0.00	0.07	0.01	0.00	0.01	0.19
<b>150</b>	0.00	0.00	0.05	0.00	0.00	0.01	0.16	0.09	0.00	0.09
<b>155</b>	0.00	0.11	0.10	0.10	0.00	0.11	0.00	0.01	0.00	0.00
<b>160</b>	0.22	0.00	0.00	0.00	0.11	0.00	0.01	0.13	0.00	0.00
<b>165</b>	0.00	0.01	0.01	0.00	0.00	0.00	0.12	0.00	0.00	0.12
<b>170</b>	0.51	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	461.97	461.97	461.97	461.97	461.97	461.97	461.97	461.97	461.97
<b>5</b>	494.04	474.34	490.78	499.17	489.16	506.49	508.82	504.94	542.47
<b>10</b>	568.94	572.00	602.11	626.10	625.92	628.16	668.62	662.18	648.87
<b>15</b>	702.68	733.32	779.26	801.81	810.30	838.76	830.89	849.33	828.25
<b>20</b>	846.48	869.70	923.99	954.70	998.81	984.17	1012.88	1004.46	1023.85
<b>25</b>	958.78	974.18	1007.07	1057.00	1072.18	1065.21	1096.05	1110.52	1105.31
<b>30</b>	1016.76	1038.44	1031.30	1061.49	1074.67	1101.02	1116.79	1122.08	1139.37
<b>35</b>	996.96	1015.44	1039.07	1027.88	1058.71	1071.94	1105.53	1117.47	1112.08
<b>40</b>	976.95	988.82	1007.58	1033.73	1045.11	1075.27	1108.33	1102.77	1095.71
<b>45</b>	938.04	966.60	1002.59	1049.19	1061.28	1090.71	1148.76	1151.25	1142.71
<b>50</b>	940.41	983.24	1037.19	1091.08	1125.74	1186.82	1223.47	1262.40	1258.52
<b>55</b>	966.47	1033.99	1103.98	1167.59	1243.08	1301.99	1342.59	1368.02	1413.03
<b>60</b>	993.22	1086.47	1172.66	1248.72	1322.82	1365.19	1407.23	1448.73	1473.72

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	1013.52	1111.28	1190.10	1267.34	1309.75	1355.63	1381.98	1432.89	1430.80
<b>70</b>	992.37	1052.41	1129.67	1188.94	1237.88	1288.73	1317.86	1327.26	1321.92
<b>75</b>	900.37	982.48	1034.51	1083.68	1125.96	1159.45	1196.65	1215.13	1213.29
<b>80</b>	806.27	857.57	922.02	974.97	1027.14	1053.90	1068.41	1115.04	1110.41
<b>85</b>	701.25	758.40	812.69	874.30	906.64	946.16	986.74	1005.54	1016.50
<b>90</b>	581.43	632.48	689.57	740.41	775.69	815.47	830.96	852.84	854.54
<b>95</b>	412.29	452.64	493.88	523.02	559.24	573.77	587.86	598.03	627.94
<b>100</b>	236.25	267.96	285.68	308.31	318.42	343.08	349.01	369.73	369.21
<b>105</b>	126.79	144.21	156.51	171.40	180.53	183.13	192.66	191.87	202.26
<b>110</b>	71.89	80.05	85.28	94.28	100.68	106.54	115.53	112.96	116.82
<b>115</b>	37.38	44.47	49.23	53.66	60.50	62.78	66.07	67.27	67.49
<b>120</b>	20.60	24.41	26.30	30.95	33.91	35.78	40.65	38.92	41.20
<b>125</b>	9.48	14.32	15.04	17.09	19.06	20.07	21.32	22.79	24.05
<b>130</b>	4.20	6.71	6.36	7.78	9.61	11.21	12.31	13.15	11.96
<b>135</b>	1.32	3.17	3.53	3.37	5.40	6.43	5.80	5.98	5.60
<b>140</b>	0.63	0.53	0.91	1.46	1.55	1.87	2.44	2.74	2.48
<b>145</b>	0.01	0.64	0.50	0.92	0.50	0.34	1.56	0.70	1.07
<b>150</b>	0.07	0.07	0.00	0.17	0.22	0.45	0.45	0.66	0.04
<b>155</b>	0.00	0.08	0.11	0.10	0.11	0.12	0.09	0.26	0.00
<b>160</b>	0.10	0.00	0.21	0.24	0.13	0.07	0.01	0.00	0.00
<b>165</b>	0.19	0.15	0.17	0.16	0.00	0.00	0.00	0.14	0.00
<b>170</b>	0.22	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	237.51	N.A.	4.30
0-30	623.83	N.A.	11.30
0-40	1175.1	N.A.	21.40
0-60	2659.38	N.A.	48.30
0-80	4333.13	N.A.	78.70
0-90	4962.79	N.A.	90.20
10-90	4914.49	N.A.	89.30
20-40	937.59	N.A.	17.00
20-50	1612.98	N.A.	29.30
40-70	2362.47	N.A.	42.90
60-80	1673.76	N.A.	30.40
70-80	795.56	N.A.	14.50
80-90	629.66	N.A.	11.40
90-110	492.75	N.A.	9.00
90-120	527.86	N.A.	9.60
90-130	537.42	N.A.	9.80
90-150	539.70	N.A.	9.80
90-180	539.76	N.A.	9.80
110-180	47.02	N.A.	0.90
0-180	5502.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.30
10-20	189.21
20-30	386.32
30-40	551.27
40-50	675.39
50-60	808.89
60-70	878.19
70-80	795.56
80-90	629.66
90-100	369.29
100-110	123.46
110-120	35.11
120-130	9.56
130-140	2.02
140-150	0.26
150-160	0.04
160-170	0.02
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	32	30
5	65	50	39	31	62	48	38	31	45	36	30	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	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

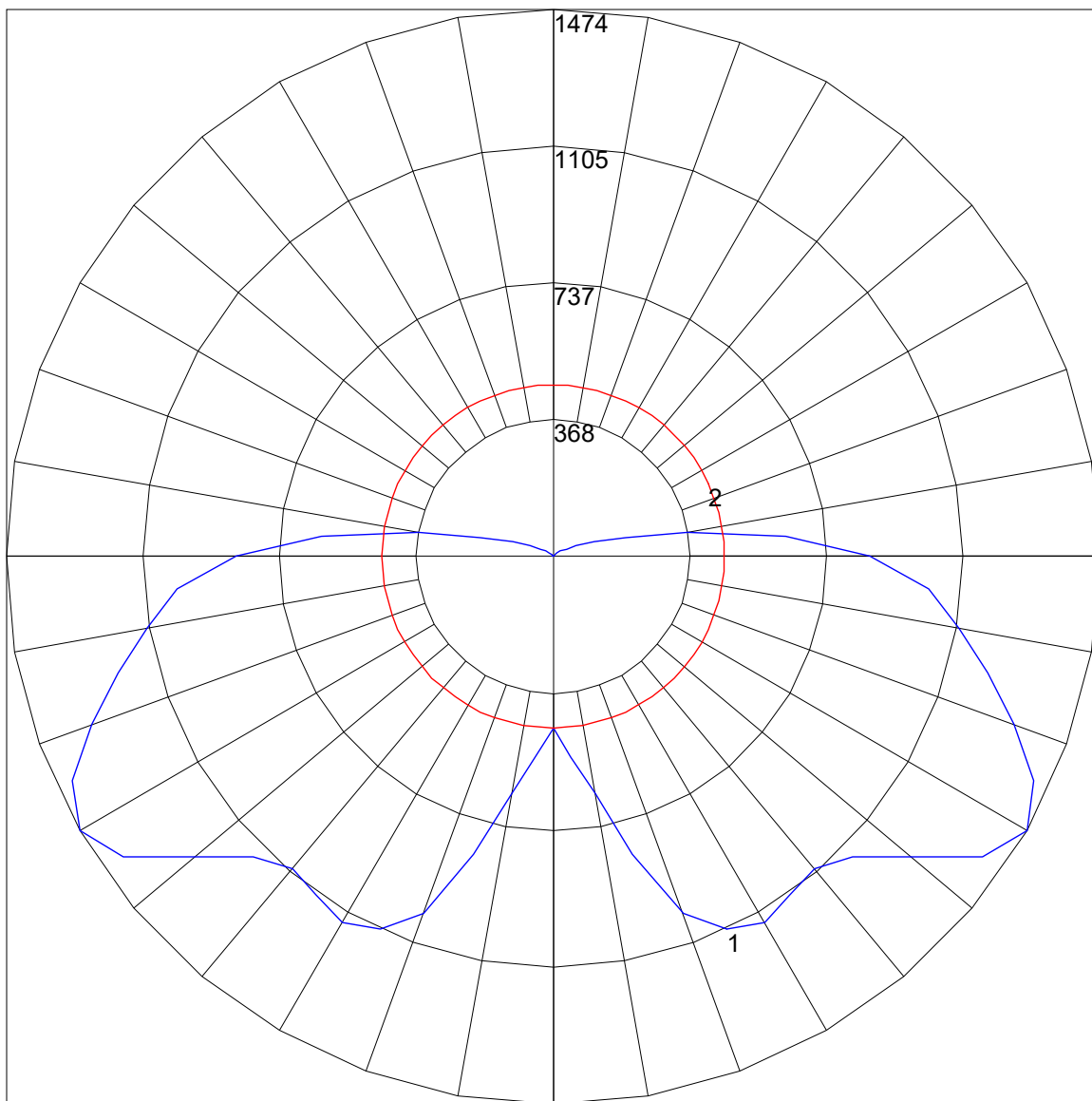
### Reflectances

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	15.8	17.5	16.3	18.0	18.5	21.9	23.6	22.4	24.1	24.6
	3H	17.3	18.8	17.8	19.4	19.9	25.4	26.9	25.9	27.4	28.0
	4H	17.8	19.3	18.3	19.8	20.4	26.9	28.4	27.4	28.9	29.5
	6H	18.2	19.6	18.7	20.1	20.7	28.4	29.8	29.0	30.4	31.0
	8H	18.3	19.6	18.9	20.2	20.8	29.2	30.5	29.8	31.1	31.7
	12H	18.4	19.7	19.0	20.3	20.9	30.0	31.3	30.5	31.8	32.5
4H	2H	18.0	19.5	18.5	20.0	20.6	22.2	23.7	22.8	24.2	24.8
	3H	19.9	21.2	20.4	21.7	22.3	26.0	27.3	26.5	27.8	28.4
	4H	20.5	21.7	21.1	22.3	23.0	27.7	28.9	28.3	29.5	30.1
	6H	21.0	22.1	21.6	22.7	23.3	29.4	30.5	30.0	31.1	31.8
	8H	21.1	22.2	21.7	22.8	23.4	30.3	31.3	30.9	31.9	32.6
	12H	21.3	22.2	21.9	22.8	23.5	31.2	32.2	31.9	32.8	33.5
8H	4H	22.2	23.3	22.8	23.9	24.5	27.9	28.9	28.5	29.5	30.2
	6H	23.1	23.9	23.7	24.6	25.3	29.8	30.7	30.4	31.3	32.0
	8H	23.3	24.1	24.0	24.8	25.5	30.8	31.7	31.5	32.3	33.0
	12H	23.6	24.3	24.2	24.9	25.7	32.0	32.7	32.6	33.3	34.1
12H	4H	22.7	23.6	23.3	24.2	24.9	27.9	28.8	28.5	29.5	30.2
	6H	23.7	24.5	24.3	25.1	25.9	29.9	30.7	30.5	31.3	32.0
	8H	24.2	24.9	24.8	25.5	26.3	31.0	31.7	31.6	32.3	33.1

Maximum UGR = 34.1

POLAR GRAPH



Maximum Candela = 1473.72 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)