



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT50120-277V\_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 11:30:57 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTHOWT50120-277V\_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	6885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	3.10
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	5917	9161	11036
55	5994	9432	14439
65	5691	11277	16160
75	4504	11992	16154
85	3539	11739	16259

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT50120-277V\_S.IES**

**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>	573.90	573.90	573.90	573.90	573.90	573.90	573.90	573.90	573.90	573.90
<b>5</b>	544.14	571.96	577.25	579.47	578.35	587.86	583.44	587.18	576.54	571.89
<b>10</b>	574.31	589.81	542.49	565.78	607.93	584.97	630.79	642.59	695.47	682.84
<b>15</b>	562.53	561.09	568.37	598.16	615.83	635.94	685.54	747.81	798.57	863.64
<b>20</b>	604.86	574.06	609.76	644.48	658.04	729.73	802.20	860.22	947.35	998.69
<b>25</b>	577.82	593.13	624.59	674.29	726.32	806.64	899.86	1008.66	1058.40	1141.30
<b>30</b>	597.24	591.68	624.43	690.81	796.33	901.63	978.90	1102.92	1136.87	1200.24
<b>35</b>	577.20	606.13	653.34	729.49	821.87	938.50	1018.83	1110.83	1177.07	1200.70
<b>40</b>	574.14	584.52	651.84	746.66	863.86	963.96	1032.25	1098.20	1135.25	1160.03
<b>45</b>	560.71	573.58	636.00	748.35	839.19	911.49	1009.65	1076.31	1072.78	1144.35
<b>50</b>	525.84	537.86	616.68	725.61	805.99	877.95	960.33	997.90	1068.03	1095.06
<b>55</b>	484.73	506.83	578.03	656.90	748.68	813.71	880.49	947.31	1029.88	1092.33
<b>60</b>	430.41	450.01	516.94	588.50	656.54	746.16	834.73	927.74	1028.35	1132.90
<b>65</b>	367.21	389.73	428.72	509.87	592.70	675.11	777.63	918.57	1052.47	1163.57
<b>70</b>	297.11	309.04	354.37	423.45	493.21	603.94	731.26	875.63	1021.41	1132.82
<b>75</b>	208.20	229.11	264.58	339.84	421.51	539.21	665.04	796.61	941.00	1048.43
<b>80</b>	152.56	157.22	190.60	264.08	344.88	456.64	577.74	716.30	827.55	930.96
<b>85</b>	93.85	104.48	132.48	190.49	269.98	370.51	491.88	612.78	710.90	810.10
<b>90</b>	53.61	64.04	90.22	136.00	198.54	285.65	387.21	487.07	572.52	657.42
<b>95</b>	29.91	30.78	46.37	81.80	128.31	197.57	262.07	334.42	399.79	455.74
<b>100</b>	18.11	17.59	20.65	39.94	71.31	106.17	154.46	193.11	234.81	263.94
<b>105</b>	10.98	9.63	11.65	16.21	29.63	52.26	75.60	96.72	123.18	144.08
<b>110</b>	6.72	5.99	6.48	6.78	13.53	21.45	36.36	49.86	65.46	71.90
<b>115</b>	3.34	4.05	4.74	4.53	4.88	8.27	14.20	24.47	29.35	40.32
<b>120</b>	2.76	2.38	2.88	2.83	2.49	2.65	6.77	7.98	13.74	21.16
<b>125</b>	1.52	2.18	1.70	1.61	1.38	1.29	2.19	3.90	6.90	8.59
<b>130</b>	1.39	1.31	0.98	0.57	0.68	0.61	0.57	0.65	2.00	3.91
<b>135</b>	0.54	0.37	0.56	0.20	0.51	0.56	0.47	0.23	0.66	0.89
<b>140</b>	0.00	0.35	0.16	0.09	0.10	0.11	0.33	0.36	0.35	0.53
<b>145</b>	0.02	0.11	0.00	0.00	0.00	0.00	0.05	0.00	0.09	0.13
<b>150</b>	0.00	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.01	0.06
<b>155</b>	0.18	0.13	0.10	0.14	0.01	0.00	0.15	0.09	0.01	0.00
<b>160</b>	0.00	0.17	0.00	0.00	0.02	0.10	0.15	0.29	0.16	0.01
<b>165</b>	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.21	0.32	0.00	0.00	0.51
<b>175</b>	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.67	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>	573.90	573.90	573.90	573.90	573.90	573.90	573.90	573.90	573.90
<b>5</b>	652.34	608.35	622.00	656.84	635.09	605.61	621.53	658.74	646.05
<b>10</b>	715.54	720.58	765.22	744.58	791.98	800.20	802.52	831.24	816.62
<b>15</b>	886.33	930.76	937.88	1024.74	1005.59	1036.28	1036.57	1069.06	1092.46
<b>20</b>	1071.08	1119.99	1137.58	1202.73	1227.68	1237.25	1297.82	1285.14	1298.98
<b>25</b>	1178.53	1269.63	1259.58	1324.40	1339.86	1355.79	1362.44	1376.06	1385.42
<b>30</b>	1258.70	1300.25	1336.11	1312.85	1375.28	1356.78	1375.00	1399.29	1380.68
<b>35</b>	1239.19	1248.08	1278.16	1310.17	1346.46	1330.34	1369.85	1374.13	1367.85
<b>40</b>	1201.95	1248.05	1256.11	1312.39	1294.70	1353.80	1376.48	1387.00	1397.55
<b>45</b>	1176.96	1225.83	1256.62	1304.07	1337.62	1393.14	1435.34	1428.13	1441.86
<b>50</b>	1158.02	1232.33	1295.81	1352.35	1419.83	1492.30	1546.78	1567.91	1562.56
<b>55</b>	1197.29	1293.88	1380.66	1481.83	1548.18	1642.67	1686.54	1733.75	1768.11
<b>60</b>	1263.48	1355.05	1474.37	1559.99	1635.02	1707.85	1797.37	1821.55	1839.02

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT50120-277V\_S.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	1266.23	1387.21	1487.32	1558.24	1643.25	1712.02	1751.79	1785.17	1786.15
<b>70</b>	1240.80	1350.43	1395.74	1487.19	1545.85	1587.46	1646.82	1677.29	1704.57
<b>75</b>	1151.20	1235.13	1295.84	1353.86	1387.56	1457.67	1488.65	1523.04	1538.69
<b>80</b>	1021.52	1077.47	1167.58	1228.10	1259.94	1321.13	1338.33	1382.63	1370.66
<b>85</b>	889.88	941.52	1004.57	1088.83	1146.85	1179.81	1224.54	1262.85	1253.27
<b>90</b>	736.12	787.09	858.79	923.84	969.86	986.65	1033.24	1071.15	1060.00
<b>95</b>	514.55	563.77	607.35	652.22	680.52	716.37	748.26	764.79	771.51
<b>100</b>	286.60	329.72	361.27	382.41	403.77	415.57	437.12	449.18	455.31
<b>105</b>	163.05	175.54	194.84	206.16	220.53	228.49	243.60	244.34	244.44
<b>110</b>	85.01	99.58	112.42	121.03	125.78	130.43	143.62	142.43	145.74
<b>115</b>	48.03	54.56	63.52	68.58	73.84	78.24	81.36	82.94	82.97
<b>120</b>	23.65	29.92	33.70	38.89	44.76	44.65	44.63	48.98	48.82
<b>125</b>	12.84	15.63	20.19	20.92	22.93	25.26	27.38	27.45	28.73
<b>130</b>	5.39	7.28	10.52	11.35	12.97	11.13	14.73	14.86	16.51
<b>135</b>	1.58	3.34	4.04	5.36	6.21	6.68	6.44	8.69	7.10
<b>140</b>	0.82	0.60	0.60	1.11	2.27	2.52	3.25	2.86	2.51
<b>145</b>	0.18	0.44	0.61	0.61	0.79	0.51	0.56	1.69	1.84
<b>150</b>	0.08	0.18	0.18	0.00	0.00	0.32	0.50	0.01	0.83
<b>155</b>	0.01	0.12	0.00	0.29	0.05	0.25	0.00	0.13	0.21
<b>160</b>	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.01	0.31
<b>165</b>	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.02
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.61	0.00	0.00	0.64	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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT50120-277V\_S.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	297.48	N.A.	4.30
0-30	781.34	N.A.	11.30
0-40	1469.11	N.A.	21.30
0-60	3325.57	N.A.	48.30
0-80	5423.46	N.A.	78.80
0-90	6211.79	N.A.	90.20
10-90	6151.44	N.A.	89.30
20-40	1171.63	N.A.	17.00
20-50	2017.02	N.A.	29.30
40-70	2956.97	N.A.	42.90
60-80	2097.88	N.A.	30.50
70-80	997.38	N.A.	14.50
80-90	788.33	N.A.	11.40
90-110	614.70	N.A.	8.90
90-120	658.67	N.A.	9.60
90-130	670.50	N.A.	9.70
90-150	673.29	N.A.	9.80
90-180	673.35	N.A.	9.80
110-180	58.65	N.A.	0.90
0-180	6885.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	60.35
10-20	237.13
20-30	483.87
30-40	687.76
40-50	845.39
50-60	1011.08
60-70	1100.5
70-80	997.38
80-90	788.33
90-100	460.70
100-110	154.00
110-120	43.96
120-130	11.84
130-140	2.49
140-150	0.30
150-160	0.04
160-170	0.01
170-180	0.01

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT50120-277V\_S.IES**

**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	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	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

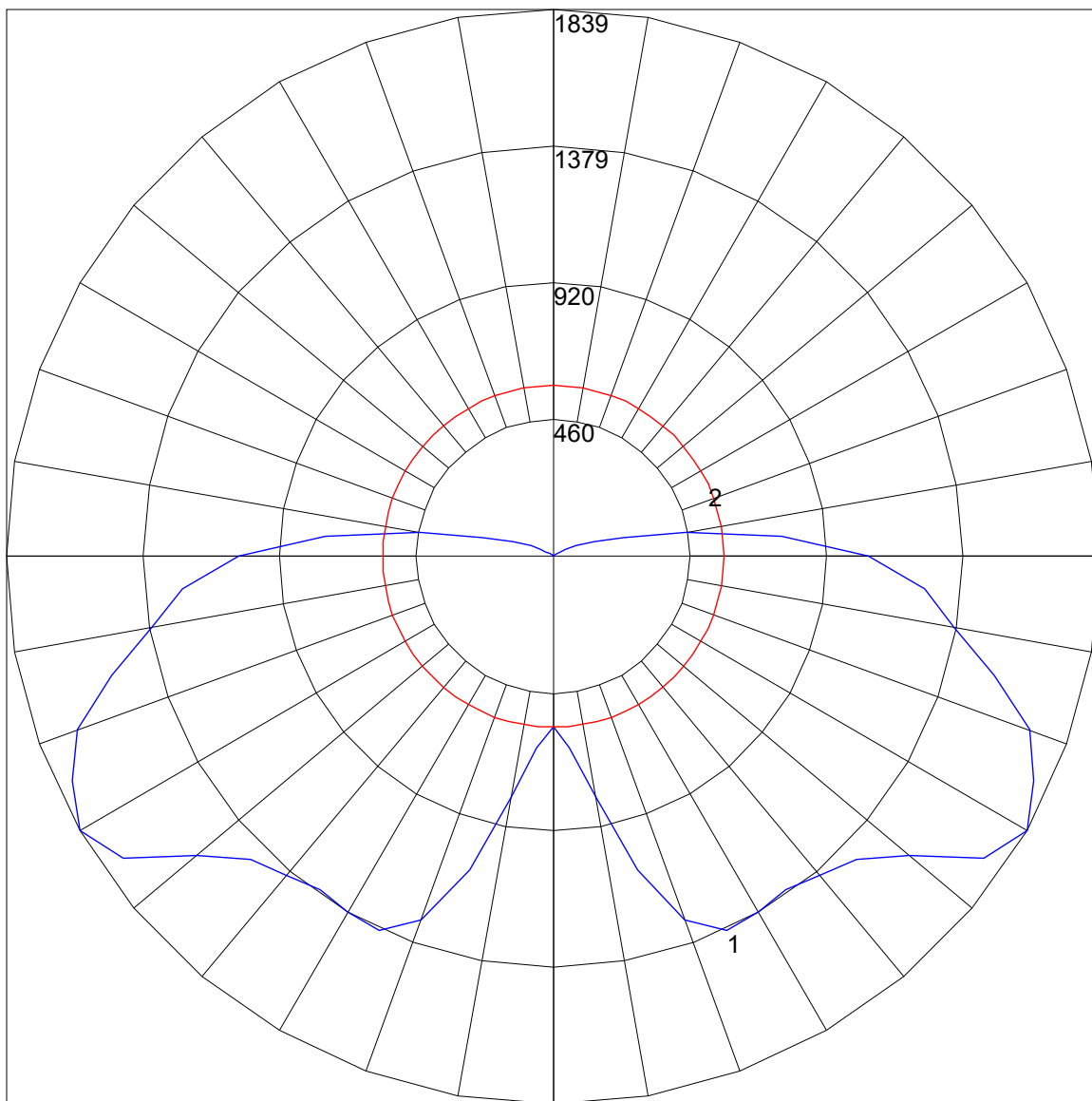
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT50120-277V\_S.IES**

**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	16.6	18.2	17.1	18.8	19.3	22.7	24.3	23.2	24.9	25.4
	3H	18.1	19.6	18.6	20.1	20.7	26.2	27.7	26.7	28.2	28.8
	4H	18.6	20.1	19.1	20.6	21.2	27.7	29.2	28.2	29.7	30.3
	6H	18.9	20.3	19.5	20.9	21.5	29.2	30.6	29.8	31.2	31.8
	8H	19.1	20.4	19.6	21.0	21.6	30.0	31.3	30.5	31.9	32.5
	12H	19.2	20.5	19.8	21.1	21.7	30.8	32.0	31.3	32.6	33.3
4H	2H	18.8	20.3	19.3	20.8	21.4	23.0	24.5	23.5	25.0	25.6
	3H	20.7	21.9	21.2	22.5	23.1	26.8	28.0	27.3	28.6	29.2
	4H	21.3	22.5	21.9	23.1	23.7	28.5	29.7	29.0	30.2	30.9
	6H	21.8	22.9	22.4	23.5	24.1	30.2	31.3	30.8	31.9	32.6
	8H	21.9	23.0	22.5	23.6	24.2	31.1	32.1	31.7	32.7	33.4
	12H	22.1	23.0	22.7	23.6	24.3	32.0	32.9	32.6	33.6	34.3
8H	4H	23.0	24.1	23.6	24.7	25.3	28.7	29.7	29.3	30.3	31.0
	6H	23.9	24.7	24.5	25.4	26.1	30.6	31.5	31.2	32.1	32.8
	8H	24.1	25.0	24.8	25.6	26.3	31.6	32.4	32.3	33.1	33.8
	12H	24.4	25.1	25.0	25.7	26.5	32.8	33.5	33.4	34.1	34.9
12H	4H	23.5	24.4	24.1	25.0	25.7	28.7	29.6	29.3	30.3	30.9
	6H	24.5	25.3	25.2	25.9	26.7	30.7	31.5	31.3	32.1	32.8
	8H	25.0	25.7	25.6	26.3	27.1	31.8	32.5	32.4	33.1	33.9

Maximum UGR = 34.9

POLAR GRAPH



Maximum Candela = 1839.02 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)