



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVLOWT30120V-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2020.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Tue Apr 13 08:46:56 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG4HTVLOWT30120V-277V\_S

[LAMP] LED 0.915W DURIS S5 (150mA)

[LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1

[OTHER]

### CHARACTERISTICS

Lumens Per Lamp	23.4 (192 lamps)
Total Lamp Lumens	4492.8
Luminaire Lumens	3919
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.86
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.32 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3010	2838	3573
55	2777	3159	4352
65	2339	3570	4427
75	1717	3514	4178
85	1187	3010	3513

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
<b>0</b>	680.56	680.56	680.56	680.56	680.56	680.56	680.56
<b>5</b>	661.51	666.68	682.73	704.07	708.18	707.77	711.19
<b>10</b>	666.17	678.64	705.41	732.18	746.87	784.15	776.26
<b>15</b>	657.09	677.29	723.66	785.99	815.79	832.60	852.58
<b>20</b>	650.25	675.23	747.82	798.57	830.61	846.72	831.75
<b>25</b>	633.90	677.06	742.80	790.77	808.11	824.64	840.47
<b>30</b>	617.36	656.83	728.04	755.92	780.95	802.78	816.90
<b>35</b>	597.26	641.91	704.89	725.98	744.58	785.50	792.19
<b>40</b>	554.29	606.59	659.66	689.29	726.66	793.70	826.38
<b>45</b>	520.93	564.22	608.29	659.66	745.80	841.54	892.67
<b>50</b>	457.56	507.81	564.32	662.35	786.26	913.99	986.20
<b>55</b>	401.69	443.65	524.75	674.08	843.01	965.16	1016.32
<b>60</b>	328.90	370.42	491.34	679.69	852.20	960.41	998.95
<b>65</b>	261.50	307.61	464.17	670.74	814.48	903.56	930.63
<b>70</b>	190.47	243.88	426.48	625.96	743.99	822.66	851.93
<b>75</b>	129.80	189.73	371.06	550.52	653.40	723.28	753.91
<b>80</b>	79.34	141.34	314.23	459.74	550.00	615.35	645.04
<b>85</b>	44.03	102.01	243.03	363.31	437.15	487.95	510.18
<b>90</b>	22.20	66.05	172.91	258.83	305.81	340.78	347.47
<b>95</b>	10.44	37.53	106.51	155.31	182.97	198.40	205.14
<b>100</b>	5.63	15.41	56.69	84.13	99.66	105.31	109.48
<b>105</b>	3.51	5.65	26.31	42.90	54.12	60.94	62.26
<b>110</b>	2.65	2.25	10.41	22.37	29.51	33.18	34.37
<b>115</b>	1.74	1.68	3.51	10.14	15.46	16.94	18.11
<b>120</b>	1.15	0.84	0.94	4.09	7.60	9.88	11.09
<b>125</b>	0.45	0.53	0.27	1.09	3.64	4.79	5.09
<b>130</b>	0.34	0.29	0.17	0.20	1.18	2.27	2.64
<b>135</b>	0.08	0.14	0.02	0.01	0.08	0.55	1.15
<b>140</b>	0.04	0.05	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.02	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	282.59	6.30	7.20
0-30	634.06	14.10	16.20
0-40	1083.9	24.10	27.70
0-60	2235.17	49.80	57.00
0-80	3366.18	74.90	85.90
0-90	3711.18	82.60	94.70
10-90	3643.94	81.10	93.00
20-40	801.31	17.80	20.40
20-50	1336.16	29.70	34.10
40-70	1767.62	39.30	45.10
60-80	1131.01	25.20	28.90
70-80	514.66	11.50	13.10
80-90	345.00	7.70	8.80
90-110	194.70	4.30	5.00
90-120	205.56	4.60	5.20
90-130	207.88	4.60	5.30
90-150	208.17	4.60	5.30
90-180	208.17	4.60	5.30
110-180	13.47	0.30	0.30
0-180	3919.35	87.20	100.00

Total Luminaire Efficiency = 87.20%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	67.24
10-20	215.35
20-30	351.47
30-40	449.84
40-50	534.85
50-60	616.41
60-70	616.35
70-80	514.66
80-90	345.00
90-100	151.32
100-110	43.38
110-120	10.87
120-130	2.32
130-140	0.28
140-150	0.00
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	103	103	103	103	100	100	100	100	94	94	94	89	89	89	85	85	85	83
1	90	84	79	74	87	82	77	73	77	73	69	73	69	66	69	66	64	61
2	80	71	63	57	77	69	62	56	65	59	54	61	56	52	58	53	50	47
3	72	61	52	45	69	59	51	44	55	49	43	52	46	42	49	44	40	38
4	65	53	44	37	62	51	43	36	48	41	35	46	39	34	43	38	33	31
5	59	47	38	31	57	45	37	30	43	35	30	40	34	29	38	33	28	26
6	54	41	33	26	52	40	32	26	38	31	25	36	30	25	34	29	24	22
7	50	37	29	23	48	36	28	23	34	27	22	33	26	22	31	25	21	19
8	47	34	26	20	45	33	25	20	31	24	19	30	24	19	28	23	19	17
9	43	31	23	18	42	30	23	18	29	22	17	27	21	17	26	21	17	15
10	41	28	21	16	39	28	21	16	26	20	15	25	19	15	24	19	15	13

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**UGR TABLE - CORRECTED**

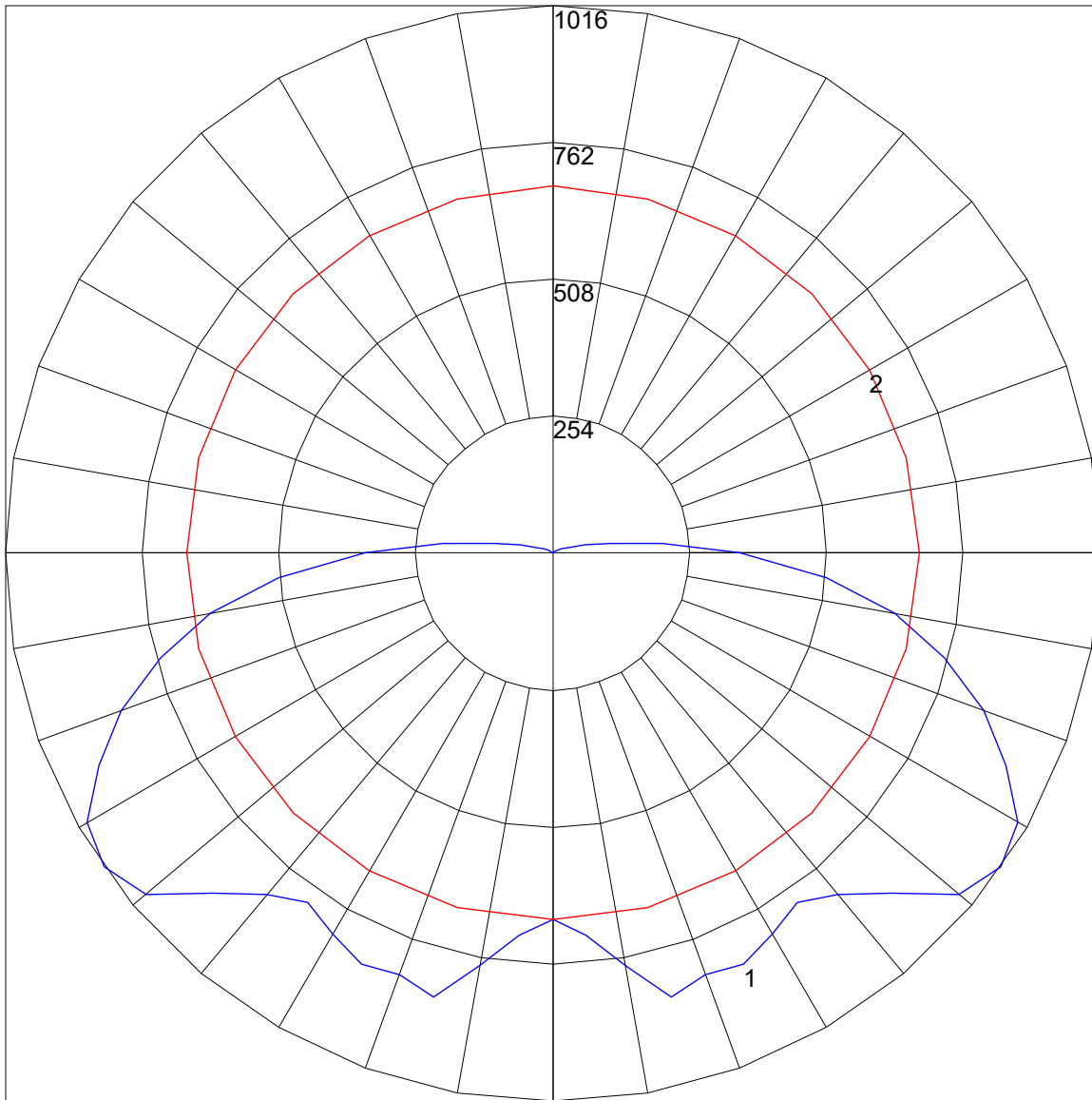
Reflectances

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	13.6	15.3	14.0	15.7	16.1	19.0	20.7	19.4	21.1	21.6
	3H	15.1	16.7	15.5	17.1	17.6	22.0	23.7	22.5	24.1	24.5
	4H	15.6	17.2	16.1	17.6	18.1	23.4	25.0	23.9	25.4	25.9
	6H	16.1	17.5	16.5	18.0	18.5	24.8	26.2	25.3	26.7	27.2
	8H	16.2	17.6	16.7	18.1	18.6	25.4	26.8	25.9	27.3	27.8
	12H	16.3	17.7	16.8	18.1	18.7	26.1	27.4	26.6	27.9	28.4
4H	2H	15.4	17.0	15.9	17.4	17.9	19.3	20.9	19.8	21.3	21.8
	3H	17.3	18.6	17.8	19.1	19.6	22.6	24.0	23.1	24.4	25.0
	4H	18.0	19.2	18.5	19.7	20.3	24.2	25.4	24.7	25.9	26.5
	6H	18.5	19.6	19.0	20.1	20.7	25.8	26.9	26.3	27.4	27.9
	8H	18.7	19.7	19.2	20.2	20.8	26.5	27.5	27.0	28.1	28.6
	12H	18.8	19.7	19.3	20.3	20.9	27.3	28.2	27.8	28.8	29.3
8H	4H	19.3	20.4	19.8	20.9	21.4	24.4	25.4	24.9	26.0	26.5
	6H	20.1	21.0	20.7	21.6	22.2	26.1	27.0	26.7	27.6	28.1
	8H	20.4	21.2	21.0	21.8	22.4	27.0	27.8	27.5	28.4	28.9
	12H	20.6	21.4	21.2	21.9	22.6	27.9	28.6	28.5	29.2	29.8
12H	4H	19.6	20.6	20.2	21.1	21.7	24.4	25.4	25.0	25.9	26.5
	6H	20.6	21.4	21.2	21.9	22.6	26.2	27.0	26.7	27.5	28.1
	8H	21.0	21.8	21.6	22.3	23.0	27.1	27.8	27.6	28.4	29.0

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 1016.32 Located At Horizontal Angle = 90, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)