



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVHOWT40120-277V\_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] Fri Apr 16 13:04:43 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG4HTVHOWT40120-277V\_S

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

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

[OTHER]

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.94
Spacing Criterion (Diagonal)	1.76
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	7216	6869	8708
55	6655	7557	10544
65	5631	8669	10863
75	4162	8502	10226
85	2852	7432	8422

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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>	1587.28	1587.28	1587.28	1587.28	1587.28	1587.28	1587.28
<b>5</b>	1604.22	1633.89	1658.92	1664.37	1723.84	1753.47	1750.04
<b>10</b>	1582.24	1647.29	1695.28	1777.90	1844.85	1900.85	1894.95
<b>15</b>	1627.00	1644.43	1792.93	1884.90	1974.69	2003.65	2021.22
<b>20</b>	1551.71	1656.38	1813.14	1927.03	1984.26	2039.33	2070.20
<b>25</b>	1536.03	1628.38	1806.52	1923.57	1956.12	2003.85	2027.35
<b>30</b>	1497.52	1612.04	1748.87	1825.20	1888.58	1924.14	1972.29
<b>35</b>	1460.22	1536.15	1670.17	1750.34	1798.57	1896.36	1946.41
<b>40</b>	1346.06	1452.49	1581.24	1663.64	1801.47	1925.75	1998.55
<b>45</b>	1248.64	1351.95	1464.10	1596.43	1816.56	2055.38	2175.42
<b>50</b>	1111.26	1223.10	1356.16	1581.69	1950.15	2238.14	2381.53
<b>55</b>	962.56	1064.79	1271.80	1612.49	2030.06	2341.54	2462.61
<b>60</b>	819.03	898.51	1195.54	1673.24	2079.58	2319.82	2424.11
<b>65</b>	629.64	744.58	1128.30	1628.78	1978.68	2211.43	2283.48
<b>70</b>	462.92	596.93	1043.65	1512.67	1805.47	1999.23	2069.15
<b>75</b>	314.66	468.14	927.42	1332.14	1598.70	1760.49	1845.30
<b>80</b>	192.82	349.76	760.58	1129.92	1360.16	1479.82	1542.00
<b>85</b>	105.77	243.46	592.62	897.12	1068.51	1187.83	1223.25
<b>90</b>	56.64	158.78	421.63	637.23	746.61	809.65	843.56
<b>95</b>	21.56	87.59	263.38	384.32	445.58	473.05	495.45
<b>100</b>	12.00	38.10	136.58	207.47	237.10	257.00	271.83
<b>105</b>	7.81	13.12	61.71	107.07	131.21	145.56	146.69
<b>110</b>	5.63	6.16	25.32	53.18	68.00	80.70	83.24
<b>115</b>	4.22	3.91	7.58	26.07	38.90	43.95	46.68
<b>120</b>	2.30	2.38	2.50	10.63	19.72	24.81	24.86
<b>125</b>	1.44	1.36	0.77	3.11	8.28	12.45	12.32
<b>130</b>	0.75	0.68	0.37	0.52	3.03	5.43	6.87
<b>135</b>	0.47	0.31	0.20	0.00	0.30	1.47	2.30
<b>140</b>	0.09	0.04	0.09	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	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	684.54	N.A.	7.20
0-30	1535.41	N.A.	16.10
0-40	2621.69	N.A.	27.60
0-60	5411.48	N.A.	56.90
0-80	8167.2	N.A.	85.90
0-90	9006.83	N.A.	94.70
10-90	8844.19	N.A.	93.00
20-40	1937.15	N.A.	20.40
20-50	3233.88	N.A.	34.00
40-70	4290.17	N.A.	45.10
60-80	2755.72	N.A.	29.00
70-80	1255.33	N.A.	13.20
80-90	839.63	N.A.	8.80
90-110	471.87	N.A.	5.00
90-120	498.64	N.A.	5.20
90-130	504.44	N.A.	5.30
90-150	505.15	N.A.	5.30
90-180	505.15	N.A.	5.30
110-180	33.28	N.A.	0.30
0-180	9511.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.64
10-20	521.90
20-30	850.87
30-40	1086.28
40-50	1296.72
50-60	1493.06
60-70	1500.38
70-80	1255.33
80-90	839.63
90-100	367.12
100-110	104.75
110-120	26.77
120-130	5.79
130-140	0.71
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	103	96	90	85	100	94	88	83	88	84	80	83	79	76	79	76	73	70
2	92	81	72	65	88	79	71	64	74	67	62	70	64	59	66	61	57	54
3	82	70	60	52	79	67	58	51	63	56	49	60	53	48	56	51	46	43
4	75	60	50	42	72	59	49	42	55	47	40	52	45	39	49	43	38	35
5	68	53	43	35	65	52	42	35	49	40	34	46	39	33	44	37	32	30
6	62	47	37	30	60	46	37	30	44	35	29	41	34	28	39	33	28	25
7	58	43	33	26	55	42	32	26	39	31	25	37	30	25	36	29	24	22
8	53	39	29	23	51	38	29	23	36	28	22	34	27	22	32	26	21	19
9	50	35	26	20	48	34	26	20	33	25	20	31	24	19	30	24	19	17
10	47	32	24	18	45	32	23	18	30	23	18	29	22	17	28	21	17	15

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**UGR TABLE - CORRECTED**

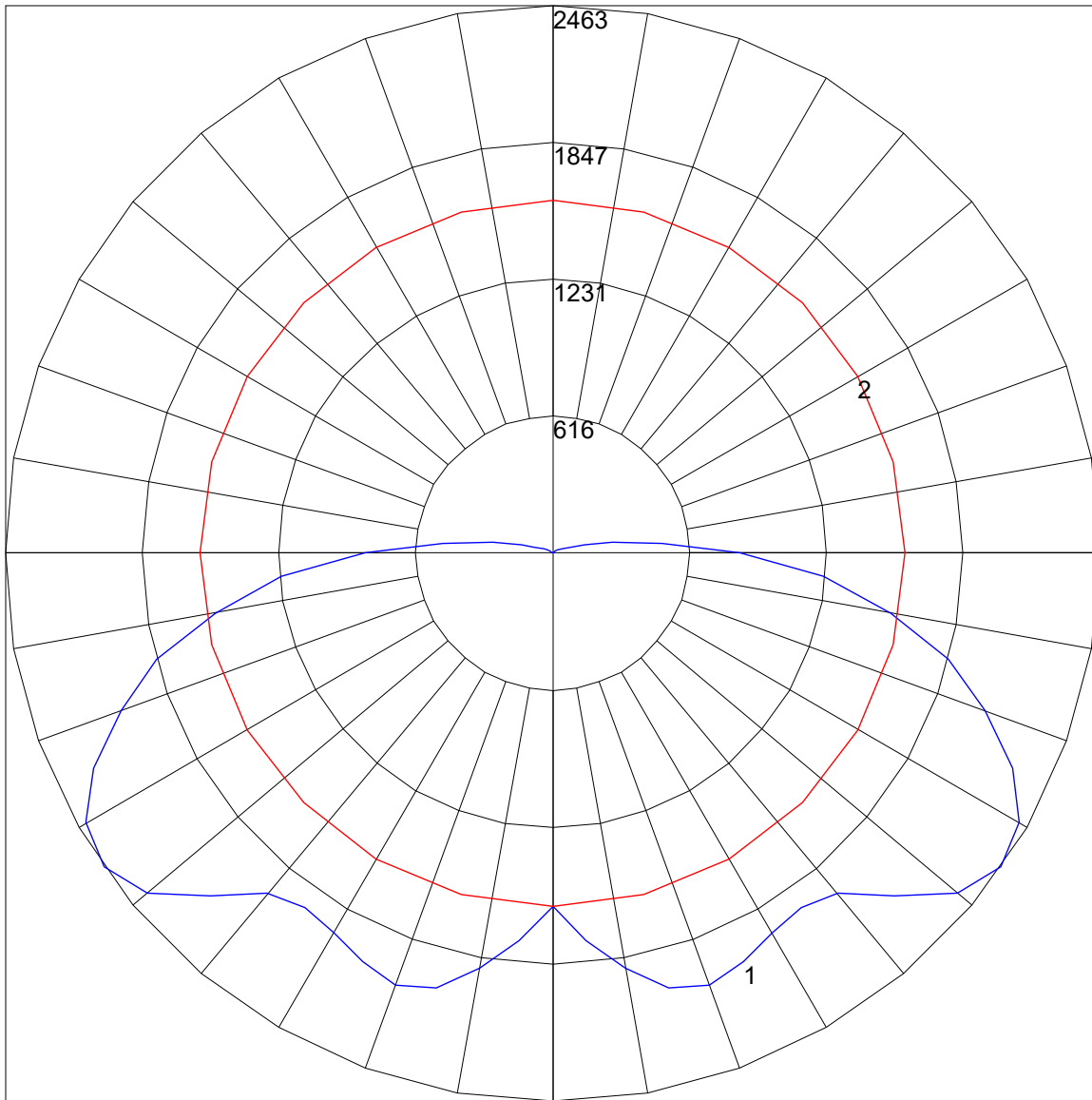
Reflectances

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	16.6	18.3	17.0	18.7	19.2	22.0	23.8	22.5	24.2	24.6
	3H	18.1	19.7	18.6	20.1	20.6	25.1	26.7	25.6	27.1	27.6
	4H	18.7	20.2	19.2	20.7	21.2	26.5	28.0	27.0	28.5	29.0
	6H	19.1	20.6	19.6	21.0	21.5	27.8	29.3	28.3	29.7	30.2
	8H	19.3	20.7	19.8	21.1	21.6	28.5	29.8	29.0	30.3	30.8
	12H	19.4	20.7	19.9	21.2	21.7	29.1	30.4	29.6	30.9	31.4
4H	2H	18.5	20.0	18.9	20.4	20.9	22.4	23.9	22.8	24.3	24.8
	3H	20.4	21.7	20.9	22.2	22.7	25.7	27.0	26.2	27.5	28.0
	4H	21.1	22.3	21.6	22.8	23.4	27.3	28.5	27.8	29.0	29.5
	6H	21.6	22.7	22.1	23.2	23.8	28.8	29.9	29.3	30.4	31.0
	8H	21.8	22.8	22.3	23.3	23.9	29.5	30.6	30.1	31.1	31.7
	12H	21.9	22.8	22.4	23.4	24.0	30.3	31.2	30.8	31.8	32.4
8H	4H	22.4	23.4	22.9	24.0	24.5	27.5	28.5	28.0	29.0	29.6
	6H	23.2	24.1	23.8	24.7	25.3	29.2	30.1	29.7	30.6	31.2
	8H	23.5	24.3	24.1	24.9	25.5	30.0	30.8	30.6	31.4	32.0
	12H	23.7	24.5	24.3	25.0	25.7	30.9	31.7	31.5	32.2	32.9
12H	4H	22.7	23.7	23.3	24.2	24.8	27.5	28.4	28.0	29.0	29.6
	6H	23.7	24.5	24.3	25.0	25.7	29.2	30.0	29.8	30.6	31.2
	8H	24.1	24.9	24.7	25.4	26.1	30.1	30.9	30.7	31.4	32.1

Maximum UGR = 32.9

POLAR GRAPH



Maximum Candela = 2462.61 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)