



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVHOWT35120-277V\_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 12:59:22 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG4HTVHOWT35120-277V\_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	8978
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.92
Spacing Criterion (Diagonal)	1.74
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	6842	6451	8317
55	6322	7170	9963
65	5472	8128	10127
75	3906	8126	9590
85	2755	6942	8021

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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>	1527.95	1527.95	1527.95	1527.95	1527.95	1527.95	1527.95
<b>5</b>	1524.31	1544.74	1587.09	1589.17	1646.81	1639.39	1670.16
<b>10</b>	1494.50	1581.94	1639.81	1720.84	1752.60	1800.53	1866.77
<b>15</b>	1505.88	1556.74	1674.68	1780.39	1855.06	1956.00	1914.20
<b>20</b>	1496.02	1556.55	1713.55	1837.62	1909.80	1910.57	1949.78
<b>25</b>	1466.95	1571.65	1726.55	1801.71	1855.00	1892.37	1892.20
<b>30</b>	1414.38	1524.90	1666.78	1755.34	1782.97	1836.10	1861.05
<b>35</b>	1360.38	1482.99	1594.81	1656.64	1726.69	1779.65	1838.74
<b>40</b>	1264.47	1391.08	1486.32	1569.99	1692.45	1810.86	1876.65
<b>45</b>	1184.07	1278.07	1387.35	1499.23	1718.58	1939.13	2077.75
<b>50</b>	1055.78	1146.83	1282.30	1489.00	1813.46	2098.88	2256.24
<b>55</b>	914.40	1016.93	1186.50	1529.95	1924.52	2209.69	2326.87
<b>60</b>	767.98	854.19	1123.75	1565.03	1934.53	2189.59	2300.62
<b>65</b>	611.82	701.32	1060.43	1527.18	1859.05	2077.92	2128.67
<b>70</b>	437.52	565.02	973.84	1426.48	1707.14	1869.81	1939.16
<b>75</b>	295.31	440.14	858.13	1273.15	1491.18	1657.60	1730.68
<b>80</b>	182.56	330.99	715.85	1062.58	1271.88	1406.33	1454.16
<b>85</b>	102.20	234.97	548.67	838.05	1007.33	1119.14	1164.95
<b>90</b>	49.95	146.24	396.97	590.37	708.39	774.13	792.80
<b>95</b>	23.10	81.77	245.56	361.66	420.86	452.43	464.77
<b>100</b>	12.50	36.37	128.84	197.99	227.36	247.00	248.45
<b>105</b>	7.42	12.40	59.17	102.45	123.91	137.71	143.33
<b>110</b>	5.29	5.28	23.58	48.66	64.80	76.42	79.72
<b>115</b>	3.45	3.48	7.62	23.96	35.38	41.19	42.94
<b>120</b>	2.02	1.53	2.16	9.69	18.08	22.93	26.09
<b>125</b>	1.28	1.04	0.64	2.67	8.68	11.35	12.15
<b>130</b>	0.82	0.52	0.23	0.19	2.52	5.11	5.96
<b>135</b>	0.30	0.28	0.09	0.00	0.17	1.66	1.61
<b>140</b>	0.03	0.05	0.14	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	651.06	N.A.	7.30
0-30	1458.5	N.A.	16.20
0-40	2488.83	N.A.	27.70
0-60	5119.85	N.A.	57.00
0-80	7710.33	N.A.	85.90
0-90	8501.22	N.A.	94.70
10-90	8345.88	N.A.	93.00
20-40	1837.77	N.A.	20.50
20-50	3061.16	N.A.	34.10
40-70	4041.13	N.A.	45.00
60-80	2590.48	N.A.	28.90
70-80	1180.37	N.A.	13.10
80-90	790.89	N.A.	8.80
90-110	446.28	N.A.	5.00
90-120	471.23	N.A.	5.20
90-130	476.63	N.A.	5.30
90-150	477.24	N.A.	5.30
90-180	477.24	N.A.	5.30
110-180	30.96	N.A.	0.30
0-180	8978.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	155.34
10-20	495.72
20-30	807.44
30-40	1030.33
40-50	1223.39
50-60	1407.63
60-70	1410.11
70-80	1180.37
80-90	790.89
90-100	346.68
100-110	99.60
110-120	24.95
120-130	5.39
130-140	0.61
140-150	0.01
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	91	85	100	94	88	83	88	84	80	83	80	76	79	76	73	70
2	92	81	73	65	88	79	71	64	74	67	62	70	64	59	66	61	57	54
3	82	70	60	52	79	67	58	51	64	56	49	60	53	48	57	51	46	43
4	75	61	50	42	72	59	49	42	55	47	41	52	45	39	49	43	38	36
5	68	53	43	35	65	52	42	35	49	41	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	33	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	24	18	30	23	18	29	22	17	28	22	17	15

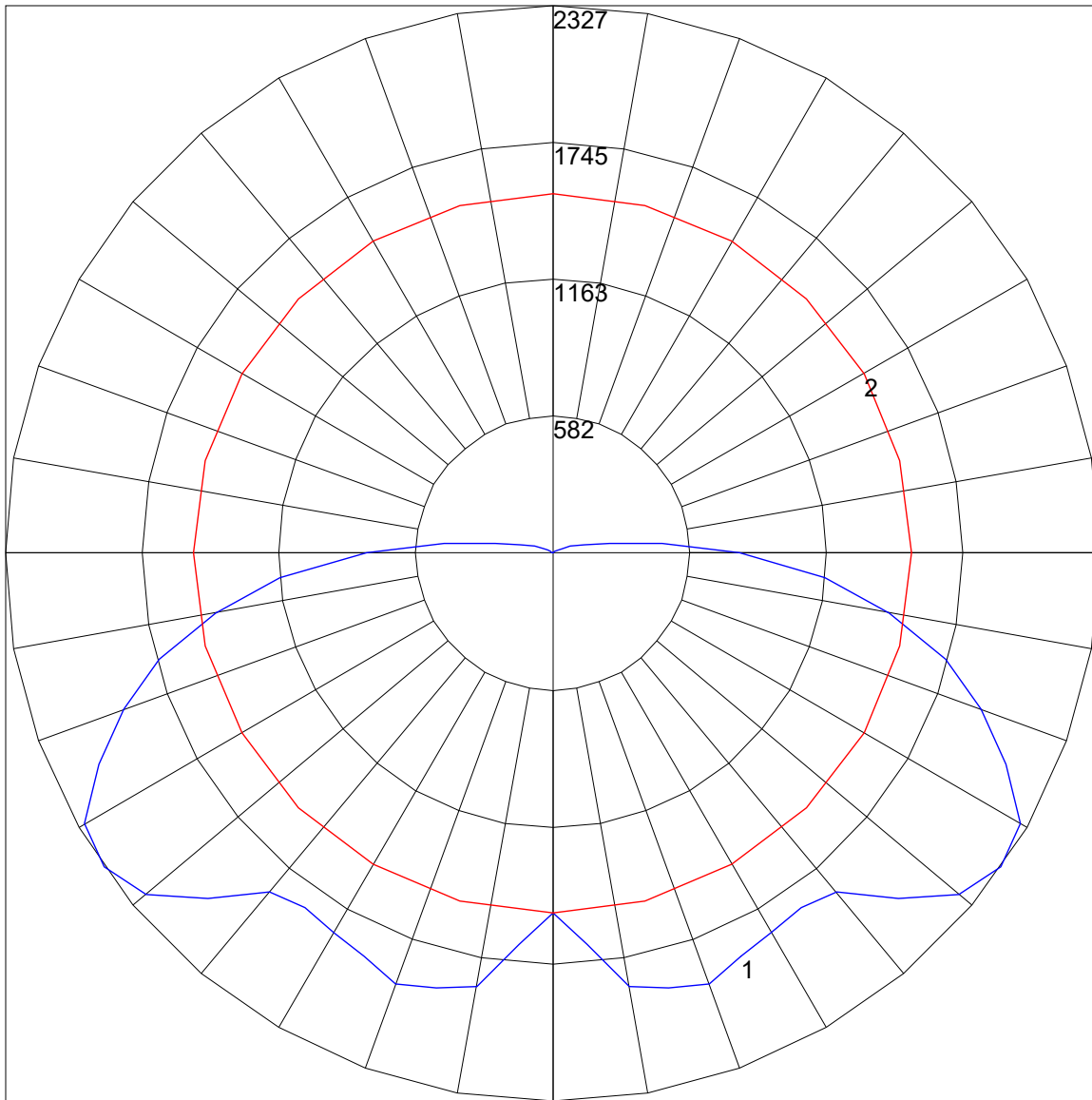
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**UGR TABLE - CORRECTED**

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	16.4	18.1	16.8	18.6	19.0	21.8	23.5	22.3	24.0	24.4
	3H	18.0	19.5	18.4	20.0	20.4	24.9	26.5	25.3	26.9	27.4
	4H	18.5	20.0	19.0	20.5	21.0	26.3	27.8	26.7	28.2	28.7
	6H	18.9	20.4	19.4	20.8	21.3	27.6	29.0	28.1	29.5	30.0
	8H	19.1	20.5	19.6	21.0	21.5	28.3	29.6	28.7	30.1	30.6
	12H	19.2	20.5	19.7	21.0	21.6	28.9	30.2	29.4	30.7	31.2
4H	2H	18.3	19.8	18.7	20.2	20.7	22.2	23.7	22.6	24.1	24.6
	3H	20.2	21.5	20.6	22.0	22.5	25.5	26.8	26.0	27.3	27.8
	4H	20.9	22.1	21.4	22.6	23.1	27.0	28.3	27.5	28.8	29.3
	6H	21.4	22.5	21.9	23.0	23.5	28.6	29.7	29.1	30.2	30.8
	8H	21.5	22.6	22.1	23.1	23.7	29.3	30.4	29.8	30.9	31.5
	12H	21.7	22.6	22.2	23.2	23.8	30.1	31.0	30.6	31.6	32.2
8H	4H	22.2	23.2	22.7	23.8	24.3	27.2	28.3	27.8	28.8	29.4
	6H	23.0	23.9	23.6	24.5	25.0	29.0	29.8	29.5	30.4	31.0
	8H	23.3	24.1	23.9	24.7	25.3	29.8	30.6	30.4	31.2	31.8
	12H	23.5	24.3	24.1	24.8	25.5	30.7	31.5	31.3	32.0	32.7
12H	4H	22.5	23.4	23.0	24.0	24.6	27.3	28.2	27.8	28.8	29.3
	6H	23.5	24.3	24.1	24.8	25.5	29.0	29.8	29.6	30.4	31.0
	8H	23.9	24.6	24.5	25.2	25.9	29.9	30.6	30.5	31.2	31.9

Maximum UGR = 32.7

POLAR GRAPH



Maximum Candela = 2326.87 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)