



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVHOWT50120-277V\_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 13:21:25 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG4HTVHOWT50120-277V\_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	9768
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.92
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	7363	7087	9047
55	6948	7793	10936
65	5825	8879	11193
75	4334	8774	10455
85	2941	7454	8640

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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>
0	1667.418	1667.418	1667.418	1667.418	1667.418	1667.418	1667.418
5	1663.709	1664.894	1703.197	1742.054	1727.820	1829.692	1789.844
10	1639.562	1678.866	1751.259	1847.207	1918.999	1955.662	1957.846
15	1638.474	1698.391	1836.721	1910.736	2003.714	2068.340	2045.532
20	1613.016	1681.604	1857.684	1990.033	2057.912	2104.410	2105.080
25	1564.304	1691.109	1862.170	1940.855	2016.346	2037.803	2080.836
30	1506.669	1648.281	1821.740	1891.968	1937.991	1981.897	2034.463
35	1450.374	1592.306	1736.675	1798.117	1860.238	1947.098	1988.800
40	1386.991	1506.077	1613.803	1705.411	1821.982	1991.276	2045.270
45	1274.099	1389.360	1508.378	1647.038	1863.636	2123.052	2259.994
50	1143.265	1264.574	1399.059	1617.366	1963.711	2301.773	2445.259
55	1004.828	1108.204	1302.742	1662.903	2088.846	2420.199	2554.228
60	824.369	937.755	1236.174	1696.653	2129.820	2382.789	2504.079
65	651.318	774.045	1169.364	1668.311	2033.298	2258.566	2352.719
70	481.014	617.140	1060.541	1532.982	1868.646	2042.202	2146.374
75	327.683	479.335	935.027	1374.689	1620.842	1810.399	1886.754
80	200.024	355.326	782.249	1153.489	1380.281	1540.225	1604.375
85	109.105	253.756	599.168	899.811	1098.038	1223.717	1254.894
90	53.373	159.613	425.700	641.191	768.491	842.710	876.295
95	24.759	92.239	263.339	386.901	454.119	496.540	504.191
100	13.826	38.702	142.903	212.209	245.542	269.116	277.787
105	8.700	13.622	62.558	108.891	131.883	147.185	154.991
110	5.612	5.447	25.448	56.460	73.034	82.627	84.928
115	3.505	3.855	8.088	26.604	40.013	44.362	47.926
120	2.495	2.058	1.981	9.593	19.584	25.827	26.915
125	1.544	1.262	0.553	3.000	9.069	12.438	12.719
130	0.990	0.641	0.184	0.553	3.000	5.797	6.845
135	0.495	0.136	0.136	0.039	0.184	1.408	2.068
140	0.000	0.029	0.039	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	703.18	N.A.	7.20
0-30	1576.8	N.A.	16.10
0-40	2693.73	N.A.	27.60
0-60	5562.69	N.A.	56.90
0-80	8389.88	N.A.	85.90
0-90	9249.93	N.A.	94.70
10-90	9082.03	N.A.	93.00
20-40	1990.55	N.A.	20.40
20-50	3322.98	N.A.	34.00
40-70	4410.05	N.A.	45.10
60-80	2827.18	N.A.	28.90
70-80	1286.11	N.A.	13.20
80-90	860.06	N.A.	8.80
90-110	484.15	N.A.	5.00
90-120	511.60	N.A.	5.20
90-130	517.46	N.A.	5.30
90-150	518.14	N.A.	5.30
90-180	518.14	N.A.	5.30
110-180	33.99	N.A.	0.30
0-180	9768.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.91
10-20	535.27
20-30	873.62
30-40	1116.93
40-50	1332.43
50-60	1536.54
60-70	1541.08
70-80	1286.11
80-90	860.06
90-100	376.45
100-110	107.71
110-120	27.45
120-130	5.85
130-140	0.68
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	91	85	100	94	88	83	88	84	80	83	79	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	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

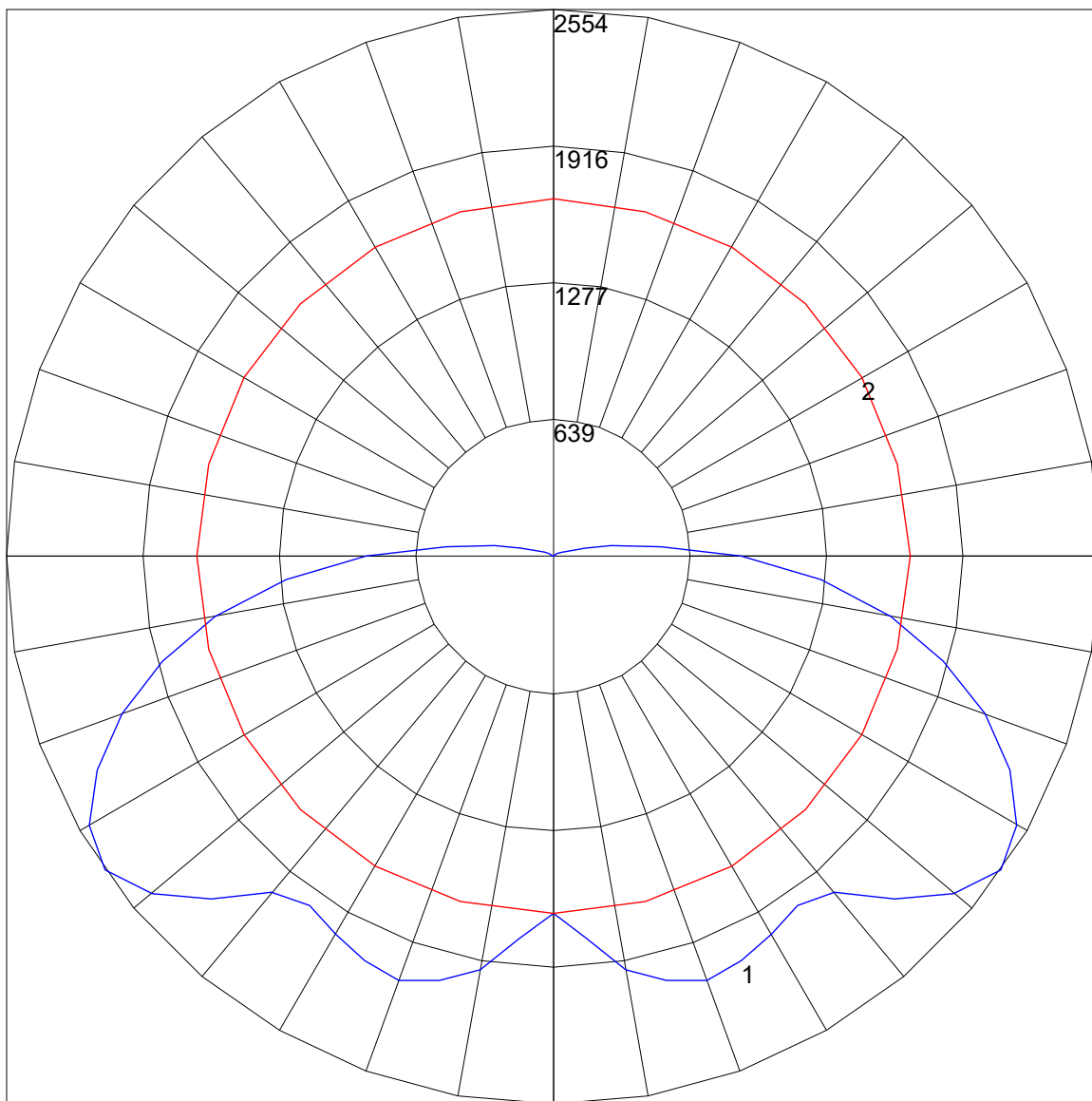
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**UGR TABLE - CORRECTED**

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	16.8	18.5	17.2	18.9	19.3	22.2	23.9	22.6	24.3	24.7
	3H	18.3	19.9	18.7	20.3	20.8	25.2	26.8	25.7	27.2	27.7
	4H	18.9	20.4	19.3	20.8	21.3	26.6	28.1	27.1	28.6	29.1
	6H	19.3	20.7	19.8	21.2	21.7	28.0	29.4	28.4	29.8	30.4
	8H	19.4	20.8	19.9	21.3	21.8	28.6	30.0	29.1	30.4	31.0
	12H	19.6	20.9	20.1	21.3	21.9	29.2	30.5	29.7	31.0	31.6
4H	2H	18.6	20.1	19.1	20.6	21.1	22.5	24.0	23.0	24.4	24.9
	3H	20.5	21.8	21.0	22.3	22.8	25.8	27.1	26.3	27.6	28.1
	4H	21.2	22.4	21.7	22.9	23.5	27.4	28.6	27.9	29.1	29.6
	6H	21.7	22.8	22.2	23.3	23.9	28.9	30.0	29.5	30.5	31.1
	8H	21.8	22.9	22.4	23.4	24.0	29.7	30.7	30.2	31.2	31.8
	12H	22.0	22.9	22.5	23.5	24.1	30.4	31.4	31.0	31.9	32.5
8H	4H	22.5	23.5	23.0	24.1	24.6	27.6	28.6	28.1	29.1	29.7
	6H	23.3	24.2	23.9	24.8	25.3	29.3	30.2	29.8	30.7	31.3
	8H	23.6	24.4	24.2	25.0	25.6	30.2	31.0	30.7	31.5	32.1
	12H	23.8	24.6	24.4	25.1	25.8	31.1	31.8	31.6	32.4	33.0
12H	4H	22.8	23.7	23.3	24.3	24.9	27.6	28.5	28.1	29.1	29.7
	6H	23.8	24.6	24.4	25.1	25.8	29.3	30.1	29.9	30.7	31.3
	8H	24.2	24.9	24.8	25.5	26.2	30.2	31.0	30.8	31.5	32.2

Maximum UGR = 33.0

POLAR GRAPH



Maximum Candela = 2554.228 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)