



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTLOWT50120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2020.1.0 see: www.ltioptics.com/ies
 [ISSUE DATE]
 [TEST DATE] Tue Apr 13 09:47:14 2021
 [TEST] 1
 [MANUFACTURER] BEGHELLI
 [LUMEN CATEGORY]
 [LUMINAIRE] BS100LEDPG4HTLOWT50120-277V_S
 [LAMP] LED 0.915W DURIS S5 (150mA)
 [LAMP CATEGORY] GW PSLRS1.PC-LRLT-5L7N-1
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	40
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	4747	4509	5687
55	4369	4979	6941
65	3774	5635	7056
75	2735	5585	6574
85	1958	4791	5612

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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	1082.832	1082.832	1082.832	1082.832	1082.832	1082.832	1082.832
5	1031.800	1064.296	1103.184	1112.160	1146.504	1130.624	1157.952
10	1085.496	1080.904	1131.872	1186.152	1231.168	1269.928	1249.384
15	1035.800	1096.200	1165.568	1237.640	1284.888	1329.752	1316.264
20	1025.672	1081.256	1196.192	1271.696	1318.672	1327.920	1326.656
25	991.536	1088.856	1187.192	1241.880	1278.384	1302.784	1310.840
30	975.208	1066.528	1149.960	1192.696	1230.672	1270.568	1272.864
35	939.512	1014.320	1113.696	1155.264	1194.184	1230.960	1255.792
40	896.008	971.352	1040.776	1093.672	1158.504	1250.680	1298.976
45	821.424	885.168	966.392	1047.864	1176.448	1341.104	1420.688
50	743.864	814.608	894.040	1036.392	1262.304	1461.424	1564.128
55	631.928	705.848	839.240	1062.408	1349.440	1538.440	1621.120
60	533.016	603.048	785.792	1082.080	1357.648	1518.792	1590.560
65	422.024	490.256	737.152	1058.840	1297.392	1423.920	1483.232
70	304.832	391.160	676.664	995.408	1193.568	1311.120	1342.864
75	206.792	302.000	594.472	875.072	1046.880	1138.712	1186.344
80	128.088	228.888	499.944	742.208	881.576	969.288	1008.776
85	72.616	160.192	380.864	578.312	699.752	772.104	815.040
90	35.352	106.192	275.928	408.784	492.568	536.264	552.600
95	15.960	58.680	168.696	248.288	287.944	314.688	328.048
100	8.560	25.504	89.864	135.808	155.384	169.800	179.728
105	5.544	8.280	40.944	70.456	88.376	96.304	97.640
110	3.344	4.256	17.832	34.648	44.976	51.720	56.992
115	2.864	2.192	5.008	16.272	25.520	27.808	30.168
120	1.248	1.280	1.672	6.392	12.904	15.720	17.016
125	0.848	1.008	0.448	1.848	5.200	8.144	8.816
130	0.464	0.264	0.176	0.216	2.272	3.968	4.336
135	0.232	0.352	0.048	0.016	0.144	1.000	1.336
140	0.056	0.024	0.072	0.040	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	451.33	N.A.	7.20
0-30	1008.22	N.A.	16.20
0-40	1721.04	N.A.	27.60
0-60	3552.07	N.A.	57.00
0-80	5350.95	N.A.	85.90
0-90	5899.54	N.A.	94.70
10-90	5791.55	N.A.	92.90
20-40	1269.71	N.A.	20.40
20-50	2118.75	N.A.	34.00
40-70	2811.26	N.A.	45.10
60-80	1798.88	N.A.	28.90
70-80	818.65	N.A.	13.10
80-90	548.59	N.A.	8.80
90-110	309.78	N.A.	5.00
90-120	327.16	N.A.	5.30
90-130	330.92	N.A.	5.30
90-150	331.39	N.A.	5.30
90-180	331.39	N.A.	5.30
110-180	21.61	N.A.	0.30
0-180	6230.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.99
10-20	343.34
20-30	556.89
30-40	712.82
40-50	849.04
50-60	981.99
60-70	980.23
70-80	818.65
80-90	548.59
90-100	240.50
100-110	69.28
110-120	17.38
120-130	3.76
130-140	0.47
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	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	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	24	18	30	23	18	29	22	17	28	21	17	15

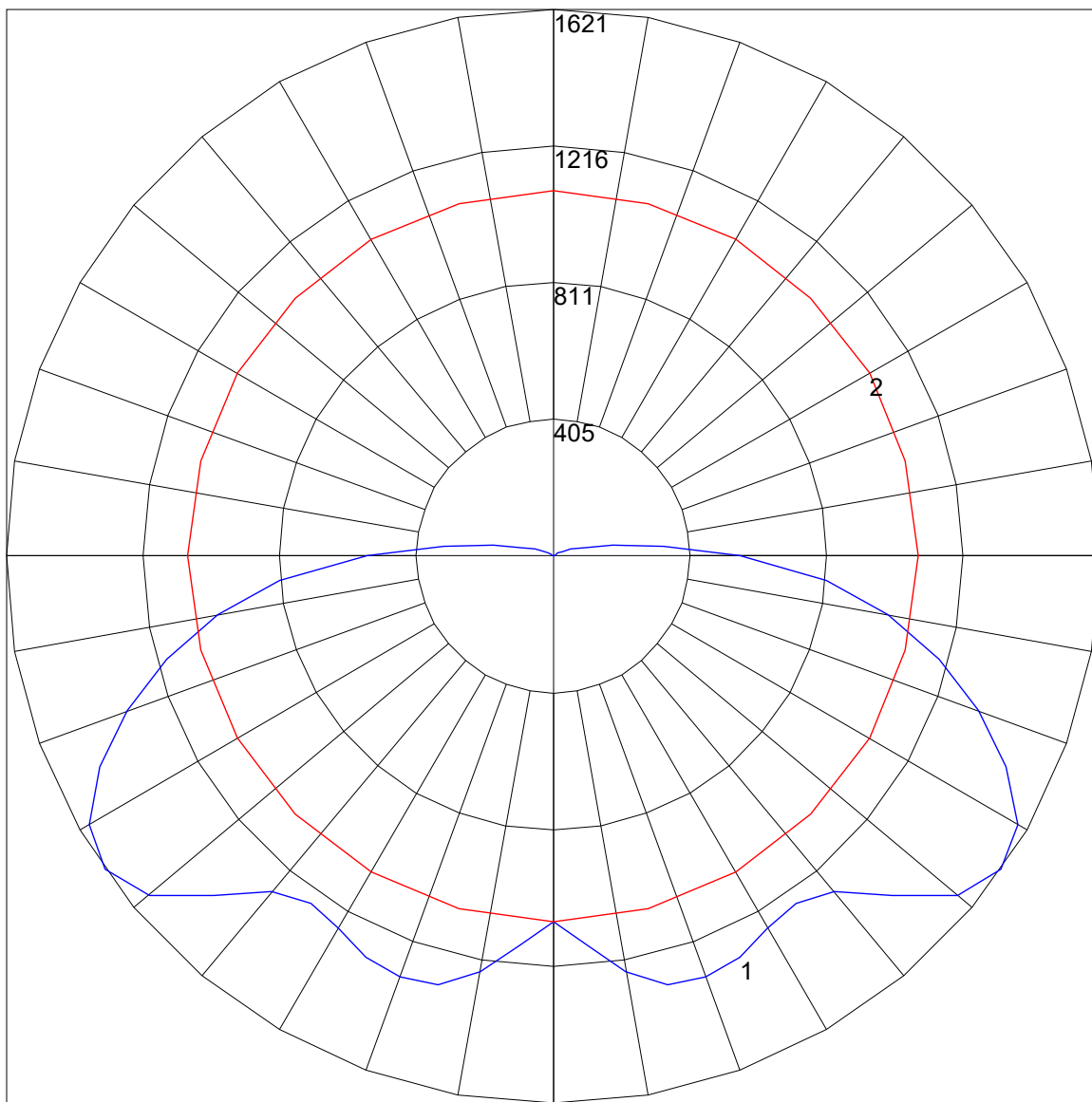
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UGR TABLE - CORRECTED

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	15.3	17.0	15.7	17.4	17.9	20.6	22.4	21.1	22.8	23.2
	3H	16.8	18.4	17.2	18.8	19.3	23.7	25.3	24.1	25.7	26.2
	4H	17.4	18.9	17.8	19.3	19.8	25.1	26.6	25.5	27.0	27.5
	6H	17.8	19.2	18.3	19.7	20.2	26.4	27.8	26.9	28.3	28.8
	8H	17.9	19.3	18.4	19.8	20.3	27.0	28.4	27.5	28.9	29.4
	12H	18.0	19.4	18.5	19.8	20.4	27.7	29.0	28.2	29.5	30.0
4H	2H	17.1	18.6	17.6	19.1	19.6	21.0	22.5	21.4	22.9	23.4
	3H	19.0	20.3	19.5	20.8	21.3	24.3	25.6	24.8	26.1	26.6
	4H	19.7	20.9	20.2	21.4	21.9	25.8	27.1	26.3	27.6	28.1
	6H	20.2	21.3	20.7	21.8	22.4	27.4	28.5	27.9	29.0	29.5
	8H	20.3	21.4	20.9	21.9	22.5	28.1	29.1	28.6	29.7	30.2
	12H	20.5	21.4	21.0	22.0	22.6	28.9	29.8	29.4	30.4	30.9
8H	4H	21.0	22.0	21.5	22.6	23.1	26.0	27.1	26.6	27.6	28.2
	6H	21.8	22.7	22.4	23.3	23.8	27.7	28.6	28.3	29.2	29.8
	8H	22.1	22.9	22.7	23.5	24.1	28.6	29.4	29.2	30.0	30.6
	12H	22.3	23.1	22.9	23.6	24.3	29.5	30.3	30.1	30.8	31.5
12H	4H	21.3	22.2	21.8	22.8	23.4	26.1	27.0	26.6	27.6	28.1
	6H	22.3	23.1	22.9	23.6	24.3	27.8	28.6	28.4	29.1	29.8
	8H	22.7	23.4	23.3	24.0	24.7	28.7	29.4	29.3	30.0	30.7

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 1621.12 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)