



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTLOWT30120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Tue Apr 13 09:08:00 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG4HTLOWT30120-277V_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	5210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.98
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	3913	3752	4787
55	3737	4153	5742
65	3095	4715	5924
75	2237	4701	5514
85	1571	4045	4608

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CANDELA TABULATION

	0	15	30	45	60	75	90
0	860.824	860.824	860.824	860.824	860.824	860.824	860.824
5	909.344	850.704	916.080	922.352	960.344	959.896	935.856
10	862.536	911.080	935.904	997.296	1017.368	1042.056	1054.288
15	885.696	902.464	955.824	1022.256	1088.552	1088.456	1102.832
20	860.784	916.112	996.256	1068.528	1098.120	1114.568	1119.064
25	835.080	899.792	993.208	1042.464	1071.976	1106.688	1113.016
30	815.808	886.872	970.720	1007.488	1028.224	1069.808	1077.112
35	778.312	845.968	920.432	955.192	991.808	1033.984	1067.416
40	740.448	798.712	874.032	903.896	963.512	1059.696	1083.944
45	677.136	738.520	808.152	871.896	988.936	1129.192	1195.808
50	604.632	669.168	745.944	870.792	1056.384	1229.232	1298.456
55	540.416	591.240	700.576	886.152	1110.008	1283.696	1341.080
60	445.872	494.296	659.408	910.432	1127.352	1267.472	1317.952
65	346.080	411.120	620.080	885.848	1090.248	1196.840	1245.152
70	251.608	330.368	570.672	840.512	994.280	1102.224	1129.248
75	169.128	255.528	504.776	736.640	878.896	965.104	995.048
80	104.472	189.424	418.848	613.328	738.728	817.680	844.912
85	58.264	136.024	323.912	488.320	578.472	651.776	669.264
90	28.056	87.064	232.160	344.984	410.584	448.936	462.560
95	13.184	49.056	142.792	210.520	245.144	260.728	269.960
100	6.680	20.816	75.976	112.248	131.352	141.664	144.312
105	4.272	7.840	33.288	58.432	71.784	78.400	83.496
110	2.784	2.768	13.696	28.920	37.672	43.528	45.688
115	1.864	2.016	4.160	14.304	20.768	24.448	24.832
120	1.584	1.248	1.240	5.704	11.448	13.176	13.544
125	0.784	0.592	0.360	1.504	4.696	6.312	8.120
130	0.296	0.312	0.168	0.160	1.296	2.664	3.960
135	0.144	0.056	0.024	0.056	0.160	0.704	1.320
140	0.088	0.040	0.056	0.024	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	375.10	N.A.	7.20
0-30	842.66	N.A.	16.20
0-40	1437.81	N.A.	27.60
0-60	2965.17	N.A.	56.90
0-80	4474.43	N.A.	85.90
0-90	4933.61	N.A.	94.70
10-90	4844.36	N.A.	93.00
20-40	1062.71	N.A.	20.40
20-50	1772.04	N.A.	34.00
40-70	2348.43	N.A.	45.10
60-80	1509.26	N.A.	29.00
70-80	688.19	N.A.	13.20
80-90	459.18	N.A.	8.80
90-110	258.75	N.A.	5.00
90-120	273.29	N.A.	5.20
90-130	276.43	N.A.	5.30
90-150	276.78	N.A.	5.30
90-180	276.78	N.A.	5.30
110-180	18.03	N.A.	0.30
0-180	5210.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.25
10-20	285.85
20-30	467.57
30-40	595.15
40-50	709.33
50-60	818.03
60-70	821.07
70-80	688.19
80-90	459.18
90-100	201.43
100-110	57.32
110-120	14.54
120-130	3.14
130-140	0.34
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	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	24	18	30	23	18	29	22	17	28	21	17	15

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UGR TABLE - CORRECTED

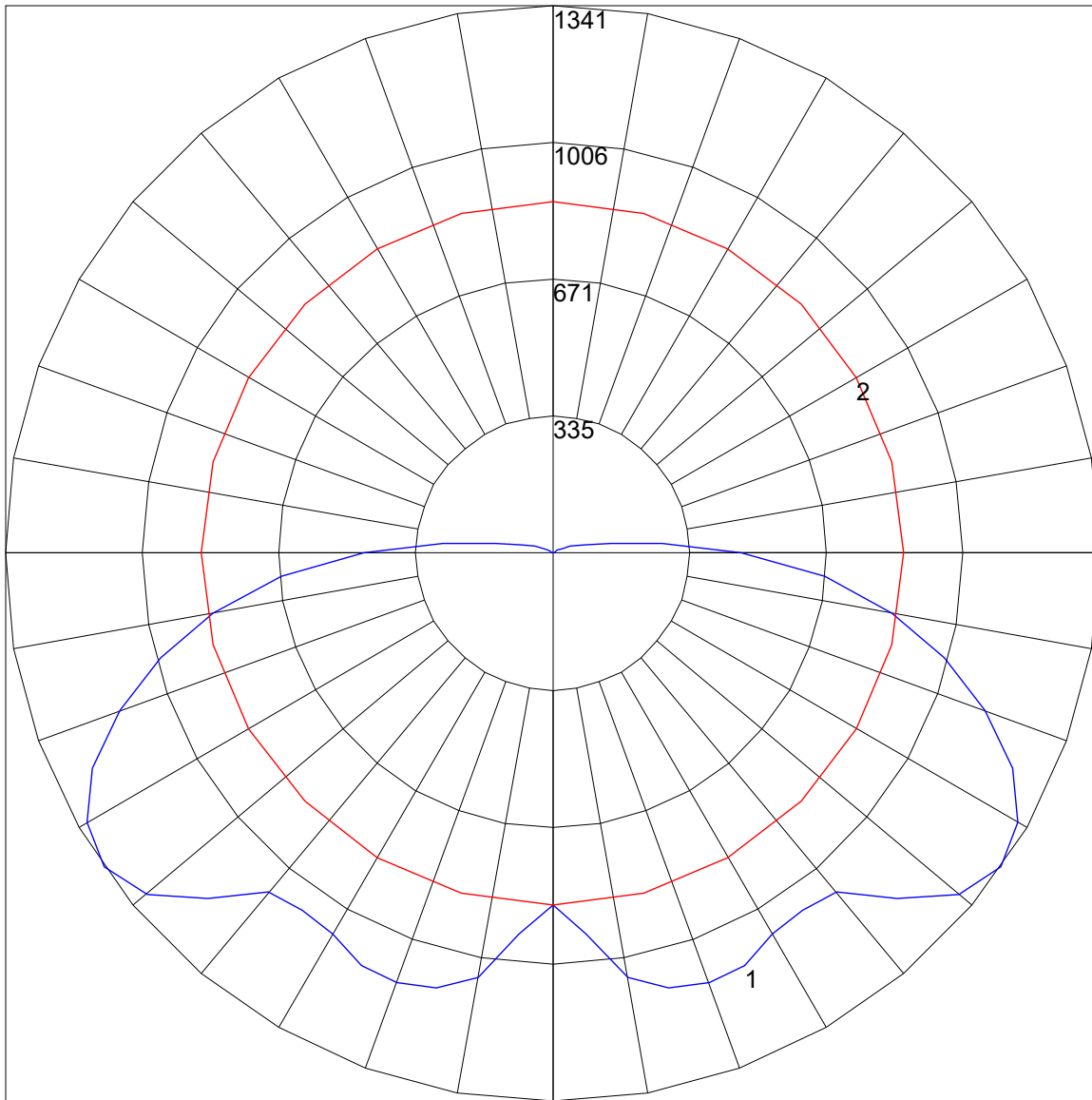
Reflectances

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	14.5	16.3	15.0	16.7	17.1	19.9	21.6	20.4	22.1	22.5
	3H	16.1	17.7	16.5	18.1	18.6	23.0	24.6	23.5	25.0	25.5
	4H	16.6	18.2	17.1	18.6	19.1	24.4	25.9	24.9	26.4	26.8
	6H	17.1	18.5	17.5	18.9	19.4	25.7	27.2	26.2	27.6	28.1
	8H	17.2	18.6	17.7	19.1	19.6	26.4	27.7	26.9	28.2	28.7
	12H	17.3	18.6	17.8	19.1	19.7	27.0	28.3	27.5	28.8	29.3
4H	2H	16.4	17.9	16.9	18.3	18.8	20.3	21.8	20.7	22.2	22.7
	3H	18.3	19.6	18.8	20.1	20.6	23.6	24.9	24.1	25.4	25.9
	4H	19.0	20.2	19.5	20.7	21.3	25.2	26.4	25.7	26.9	27.4
	6H	19.5	20.6	20.0	21.1	21.7	26.7	27.8	27.2	28.3	28.9
	8H	19.6	20.7	20.2	21.2	21.8	27.4	28.5	28.0	29.0	29.6
	12H	19.8	20.7	20.3	21.3	21.9	28.2	29.1	28.7	29.7	30.3
8H	4H	20.3	21.4	20.8	21.9	22.5	25.4	26.4	25.9	26.9	27.5
	6H	21.1	22.0	21.7	22.6	23.2	27.1	28.0	27.6	28.5	29.1
	8H	21.4	22.2	22.0	22.8	23.4	27.9	28.7	28.5	29.3	29.9
	12H	21.6	22.4	22.2	22.9	23.6	28.8	29.6	29.4	30.1	30.8
12H	4H	20.6	21.6	21.2	22.1	22.7	25.4	26.3	25.9	26.9	27.5
	6H	21.6	22.4	22.2	22.9	23.6	27.1	27.9	27.7	28.5	29.1
	8H	22.0	22.8	22.6	23.3	24.0	28.0	28.8	28.6	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 1341.08 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)