



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTHOWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Apr 16 13:04:43 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG4HTHOWT40120-277V_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	8152
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	60
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	6184	5887	7463
55	5704	6476	9036
65	4826	7429	9310
75	3567	7286	8763
85	2444	6369	7218

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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	1360.299	1360.299	1360.299	1360.299	1360.299	1360.299	1360.299
5	1374.817	1400.244	1421.694	1426.365	1477.331	1502.724	1499.784
10	1355.980	1411.728	1452.855	1523.660	1581.036	1629.028	1623.972
15	1394.339	1409.276	1536.541	1615.359	1692.309	1717.128	1732.186
20	1329.815	1419.518	1553.861	1651.465	1700.511	1747.706	1774.161
25	1316.378	1395.522	1548.188	1648.499	1676.395	1717.299	1737.439
30	1283.375	1381.518	1498.782	1564.196	1618.513	1648.988	1690.253
35	1251.409	1316.481	1431.336	1500.041	1541.374	1625.181	1668.073
40	1153.573	1244.784	1355.123	1425.739	1543.860	1650.368	1712.757
45	1070.084	1158.621	1254.734	1368.140	1556.792	1761.461	1864.335
50	952.350	1048.197	1162.229	1355.508	1671.279	1918.086	2040.971
55	824.914	912.525	1089.933	1381.904	1739.761	2006.700	2110.457
60	701.909	770.023	1024.578	1433.967	1782.200	1988.086	2077.462
65	539.601	638.105	966.953	1395.864	1695.729	1895.195	1956.942
70	396.722	511.569	894.408	1296.358	1547.288	1713.340	1773.262
75	269.664	401.196	794.799	1141.644	1370.086	1508.740	1581.422
80	165.247	299.744	651.817	968.341	1165.657	1268.206	1321.494
85	90.645	208.645	507.875	768.832	915.713	1017.970	1048.325
90	48.540	136.074	361.337	546.106	639.845	693.870	722.931
95	18.477	75.065	225.717	329.362	381.862	405.404	424.601
100	10.284	32.652	117.049	177.802	203.195	220.249	232.958
105	6.693	11.244	52.885	91.759	112.447	124.745	125.713
110	4.825	5.279	21.699	45.575	58.276	69.160	71.337
115	3.617	3.351	6.496	22.342	33.337	37.665	40.005
120	1.971	2.040	2.142	9.110	16.900	21.262	21.305
125	1.234	1.166	0.660	2.665	7.096	10.670	10.558
130	0.643	0.583	0.317	0.446	2.597	4.654	5.888
135	0.403	0.266	0.171	0.000	0.257	1.260	1.971
140	0.077	0.034	0.077	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	586.65	N.A.	7.20
0-30	1315.85	N.A.	16.10
0-40	2246.79	N.A.	27.60
0-60	4637.64	N.A.	56.90
0-80	6999.29	N.A.	85.90
0-90	7718.85	N.A.	94.70
10-90	7579.47	N.A.	93.00
20-40	1660.14	N.A.	20.40
20-50	2771.43	N.A.	34.00
40-70	3676.68	N.A.	45.10
60-80	2361.65	N.A.	29.00
70-80	1075.82	N.A.	13.20
80-90	719.57	N.A.	8.80
90-110	404.39	N.A.	5.00
90-120	427.34	N.A.	5.20
90-130	432.30	N.A.	5.30
90-150	432.91	N.A.	5.30
90-180	432.91	N.A.	5.30
110-180	28.52	N.A.	0.30
0-180	8151.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.38
10-20	447.27
20-30	729.20
30-40	930.94
40-50	1111.29
50-60	1279.56
60-70	1285.83
70-80	1075.82
80-90	719.57
90-100	314.62
100-110	89.77
110-120	22.94
120-130	4.97
130-140	0.61
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	41	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

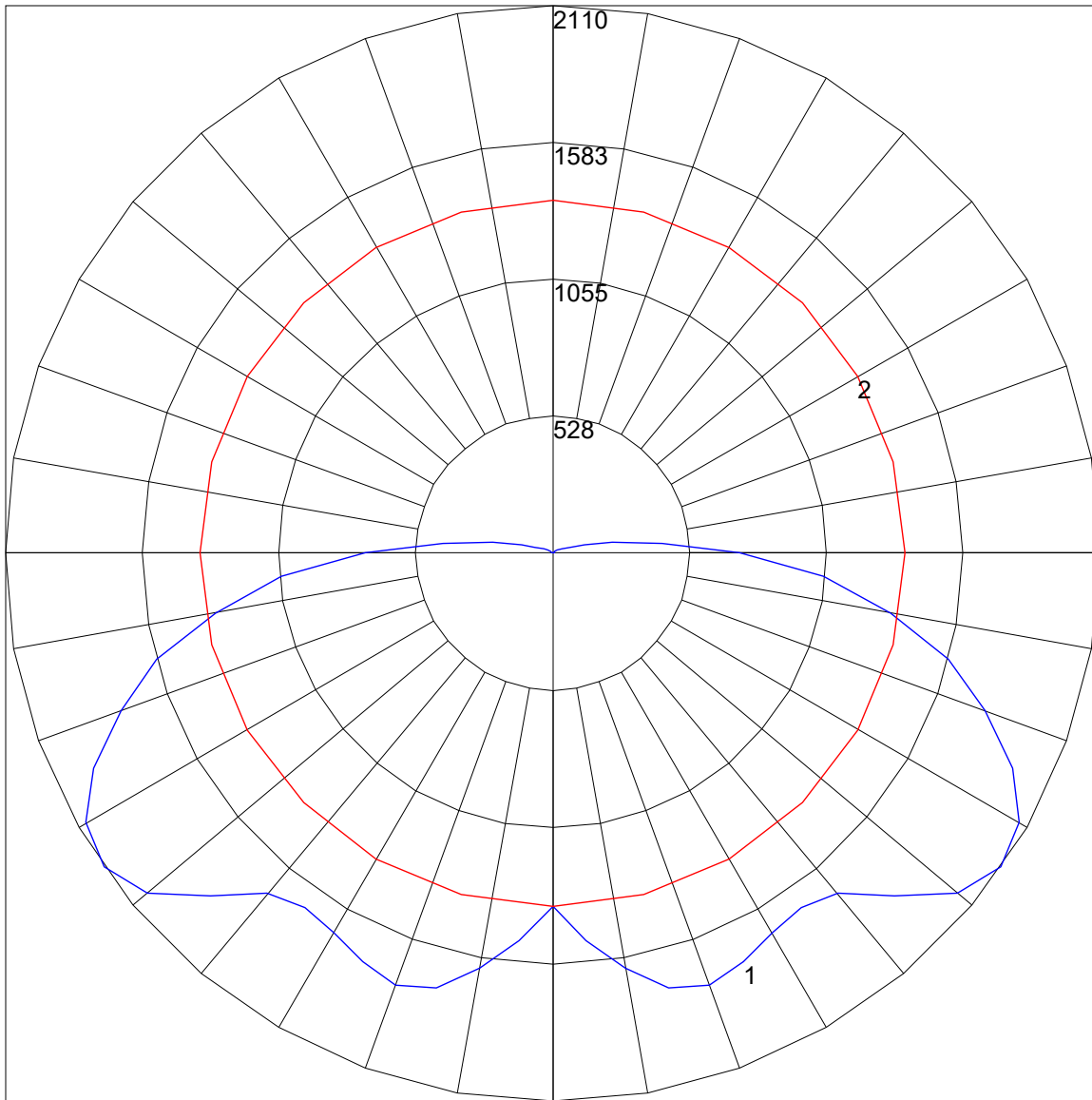
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UGR TABLE - CORRECTED

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	16.1	17.8	16.5	18.2	18.7	21.5	23.3	22.0	23.7	24.1
	3H	17.6	19.2	18.1	19.6	20.1	24.6	26.2	25.1	26.6	27.1
	4H	18.2	19.7	18.7	20.2	20.7	26.0	27.5	26.5	28.0	28.5
	6H	18.6	20.1	19.1	20.5	21.0	27.3	28.8	27.8	29.2	29.7
	8H	18.8	20.2	19.3	20.6	21.1	28.0	29.3	28.5	29.8	30.3
	12H	18.9	20.2	19.4	20.7	21.2	28.6	29.9	29.1	30.4	30.9
4H	2H	18.0	19.5	18.4	19.9	20.4	21.9	23.4	22.3	23.8	24.3
	3H	19.9	21.2	20.4	21.7	22.2	25.2	26.5	25.7	27.0	27.5
	4H	20.6	21.8	21.1	22.3	22.9	26.8	28.0	27.3	28.5	29.0
	6H	21.1	22.2	21.6	22.7	23.3	28.3	29.4	28.8	29.9	30.5
	8H	21.3	22.3	21.8	22.8	23.4	29.0	30.1	29.6	30.6	31.2
	12H	21.4	22.3	21.9	22.9	23.5	29.8	30.7	30.3	31.3	31.9
8H	4H	21.9	22.9	22.4	23.5	24.0	27.0	28.0	27.5	28.5	29.1
	6H	22.7	23.6	23.3	24.2	24.8	28.7	29.6	29.2	30.1	30.7
	8H	23.0	23.8	23.6	24.4	25.0	29.5	30.3	30.1	30.9	31.5
	12H	23.2	24.0	23.8	24.5	25.2	30.4	31.2	31.0	31.7	32.4
12H	4H	22.2	23.2	22.8	23.7	24.3	27.0	27.9	27.5	28.5	29.1
	6H	23.2	24.0	23.8	24.5	25.2	28.7	29.5	29.3	30.1	30.7
	8H	23.6	24.4	24.2	24.9	25.6	29.6	30.4	30.2	30.9	31.6

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 2110.457 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)