



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTHOWT50120-277V_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 13:21:25 2021
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BS100LEDPG4HTHOWT50120-277V_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	8622
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	60
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	6499	6255	7985
55	6132	6878	9653
65	5142	7837	9879
75	3826	7744	9228
85	2596	6579	7626

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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	1471.743	1471.743	1471.743	1471.743	1471.743	1471.743	1471.743
5	1468.469	1469.515	1503.324	1537.621	1525.057	1614.974	1579.802
10	1447.156	1481.847	1545.745	1630.434	1693.800	1726.161	1728.089
15	1446.196	1499.082	1621.178	1686.507	1768.574	1825.616	1805.485
20	1423.726	1484.264	1639.681	1756.499	1816.411	1857.453	1858.045
25	1380.730	1492.654	1643.640	1713.092	1779.723	1798.663	1836.645
30	1329.858	1454.852	1607.955	1669.942	1710.563	1749.317	1795.715
35	1280.169	1405.446	1532.873	1587.104	1641.935	1718.602	1755.410
40	1224.224	1329.336	1424.420	1505.278	1608.169	1757.596	1805.253
45	1124.581	1226.316	1331.367	1453.755	1644.934	1873.908	1994.779
50	1009.100	1116.174	1234.877	1427.565	1733.265	2031.656	2158.303
55	886.909	978.154	1149.863	1467.758	1843.716	2136.184	2254.484
60	727.627	827.708	1091.107	1497.547	1879.881	2103.164	2210.220
65	574.884	683.209	1032.137	1472.532	1794.687	1993.519	2076.622
70	424.566	544.718	936.084	1353.083	1649.356	1802.545	1894.493
75	289.229	423.084	825.300	1213.366	1430.633	1597.945	1665.340
80	176.551	313.628	690.451	1018.125	1218.303	1359.476	1416.098
85	96.301	223.977	528.855	794.216	969.181	1080.111	1107.630
90	47.109	140.882	375.743	565.946	678.307	743.816	773.460
95	21.853	81.415	232.436	341.497	400.827	438.270	445.023
100	12.204	34.160	126.133	187.306	216.727	237.535	245.188
105	7.679	12.024	55.217	96.113	116.406	129.913	136.803
110	4.953	4.808	22.462	49.835	64.464	72.931	74.962
115	3.094	3.402	7.139	23.482	35.317	39.156	42.302
120	2.202	1.817	1.748	8.467	17.286	22.796	23.756
125	1.363	1.114	0.488	2.648	8.004	10.978	11.227
130	0.874	0.566	0.163	0.488	2.648	5.116	6.042
135	0.437	0.120	0.120	0.034	0.163	1.243	1.825
140	0.000	0.026	0.034	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	620.66	N.A.	7.20
0-30	1391.76	N.A.	16.10
0-40	2377.61	N.A.	27.60
0-60	4909.9	N.A.	56.90
0-80	7405.31	N.A.	85.90
0-90	8164.44	N.A.	94.70
10-90	8016.23	N.A.	93.00
20-40	1756.96	N.A.	20.40
20-50	2933.02	N.A.	34.00
40-70	3892.52	N.A.	45.10
60-80	2495.41	N.A.	28.90
70-80	1135.18	N.A.	13.20
80-90	759.13	N.A.	8.80
90-110	427.34	N.A.	5.00
90-120	451.57	N.A.	5.20
90-130	456.73	N.A.	5.30
90-150	457.34	N.A.	5.30
90-180	457.34	N.A.	5.30
110-180	30.00	N.A.	0.30
0-180	8621.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.20
10-20	472.45
20-30	771.10
30-40	985.85
40-50	1176.07
50-60	1356.22
60-70	1360.23
70-80	1135.18
80-90	759.13
90-100	332.27
100-110	95.07
110-120	24.23
120-130	5.17
130-140	0.60
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

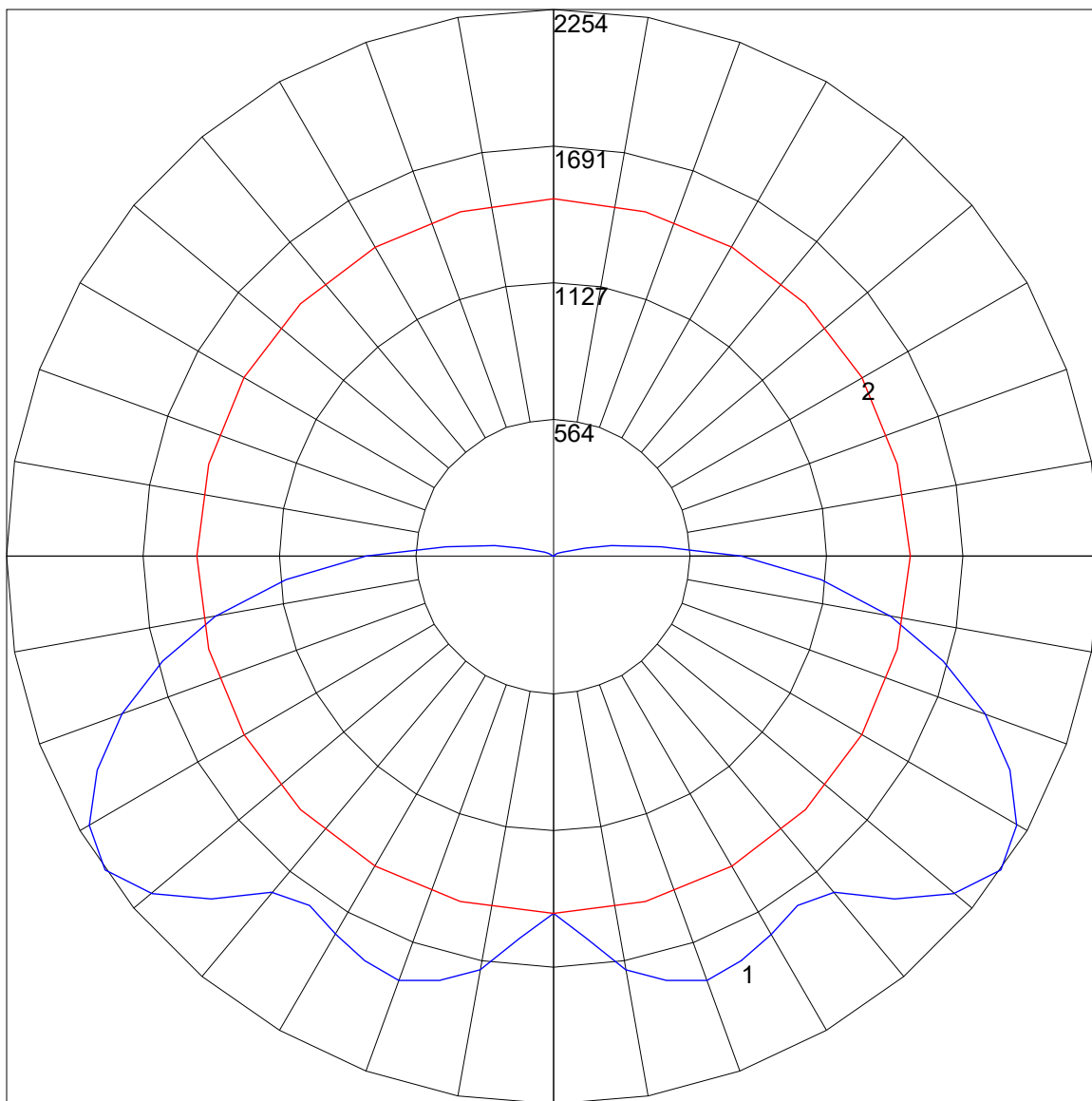
Reflectances

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	16.4	18.1	16.8	18.5	18.9	21.8	23.5	22.2	23.9	24.3
	3H	17.9	19.5	18.3	19.9	20.4	24.8	26.4	25.3	26.8	27.3
	4H	18.5	20.0	18.9	20.4	20.9	26.2	27.7	26.7	28.2	28.7
	6H	18.9	20.3	19.4	20.8	21.3	27.6	29.0	28.0	29.4	30.0
	8H	19.0	20.4	19.5	20.9	21.4	28.2	29.6	28.7	30.0	30.6
	12H	19.2	20.5	19.7	20.9	21.5	28.8	30.1	29.3	30.6	31.2
4H	2H	18.2	19.7	18.7	20.2	20.7	22.1	23.6	22.6	24.0	24.5
	3H	20.1	21.4	20.6	21.9	22.4	25.4	26.7	25.9	27.2	27.7
	4H	20.8	22.0	21.3	22.5	23.1	27.0	28.2	27.5	28.7	29.2
	6H	21.3	22.4	21.8	22.9	23.5	28.5	29.6	29.1	30.1	30.7
	8H	21.4	22.5	22.0	23.0	23.6	29.3	30.3	29.8	30.8	31.4
	12H	21.6	22.5	22.1	23.1	23.7	30.0	31.0	30.6	31.5	32.1
8H	4H	22.1	23.1	22.6	23.7	24.2	27.2	28.2	27.7	28.7	29.3
	6H	22.9	23.8	23.5	24.4	24.9	28.9	29.8	29.4	30.3	30.9
	8H	23.2	24.0	23.8	24.6	25.2	29.8	30.6	30.3	31.1	31.7
	12H	23.4	24.2	24.0	24.7	25.4	30.7	31.4	31.2	32.0	32.6
12H	4H	22.4	23.3	22.9	23.9	24.5	27.2	28.1	27.7	28.7	29.3
	6H	23.4	24.2	24.0	24.7	25.4	28.9	29.7	29.5	30.3	30.9
	8H	23.8	24.5	24.4	25.1	25.8	29.8	30.6	30.4	31.1	31.8

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 2254.484 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)