



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTLOWT40120-277V_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 09:28:48 2021
 [TEST] 1
 [MANUFACTURER] BEGHELLI
 [LUMEN CATEGORY]
 [LUMINAIRE] BS100LEDPG4HTMOWT40120-277V_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	5896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.90
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	4497	4249	5344
55	4207	4689	6600
65	3586	5346	6697
75	2588	5234	6330
85	1776	4566	5313

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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	1001.904	1001.904	1001.904	1001.904	1001.904	1001.904	1001.904
5	1021.672	1022.200	1029.616	1022.664	1077.144	1086.352	1064.664
10	1001.664	1012.600	1058.968	1127.600	1167.952	1175.400	1198.712
15	1003.664	1035.576	1108.952	1180.624	1239.200	1265.488	1262.120
20	986.704	1040.928	1127.520	1197.672	1236.848	1273.176	1262.816
25	958.664	1019.296	1131.728	1182.296	1223.048	1242.592	1260.200
30	929.496	1000.536	1099.168	1155.656	1170.272	1200.368	1227.768
35	882.096	962.224	1042.448	1083.088	1116.720	1177.568	1207.424
40	851.104	909.232	986.280	1030.472	1093.448	1187.560	1243.592
45	778.112	847.904	907.472	987.440	1115.384	1273.592	1334.864
50	692.576	756.824	840.128	973.088	1178.800	1393.576	1470.192
55	608.432	654.680	788.064	1000.592	1255.072	1447.800	1541.424
60	495.904	562.680	735.056	1017.600	1270.760	1434.192	1500.760
65	400.960	468.016	698.176	1004.560	1220.072	1354.464	1407.704
70	294.344	371.104	638.848	936.776	1115.792	1236.920	1283.784
75	195.656	290.352	570.808	820.096	988.392	1091.656	1142.328
80	122.712	213.440	467.872	693.376	834.656	926.928	984.960
85	65.864	152.384	363.064	551.152	663.376	744.520	771.600
90	30.408	99.776	261.520	392.160	462.400	507.304	532.280
95	13.936	54.752	161.144	232.512	279.184	295.240	309.128
100	7.672	23.224	85.536	129.504	152.432	160.800	170.216
105	4.784	7.928	37.984	65.832	81.688	90.280	93.400
110	3.248	3.712	16.000	31.864	42.544	49.296	54.104
115	2.616	2.408	5.104	15.008	23.024	27.656	28.688
120	1.296	1.328	1.168	6.408	12.504	13.640	16.264
125	0.608	0.736	0.560	1.760	5.432	7.192	7.760
130	0.376	0.496	0.200	0.192	1.360	3.256	3.768
135	0.040	0.032	0.024	0.016	0.088	1.032	1.336
140	0.040	0.032	0.000	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	427.86	N.A.	7.30
0-30	958.12	N.A.	16.30
0-40	1633.03	N.A.	27.70
0-60	3357.53	N.A.	56.90
0-80	5060.26	N.A.	85.80
0-90	5581.91	N.A.	94.70
10-90	5480.36	N.A.	93.00
20-40	1205.17	N.A.	20.40
20-50	2007.15	N.A.	34.00
40-70	2650.43	N.A.	45.00
60-80	1702.73	N.A.	28.90
70-80	776.81	N.A.	13.20
80-90	521.65	N.A.	8.80
90-110	293.56	N.A.	5.00
90-120	309.95	N.A.	5.30
90-130	313.40	N.A.	5.30
90-150	313.78	N.A.	5.30
90-180	313.78	N.A.	5.30
110-180	20.22	N.A.	0.30
0-180	5895.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.55
10-20	326.31
20-30	530.26
30-40	674.91
40-50	801.98
50-60	922.52
60-70	925.92
70-80	776.81
80-90	521.65
90-100	228.16
100-110	65.40
110-120	16.39
120-130	3.45
130-140	0.38
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	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	33	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

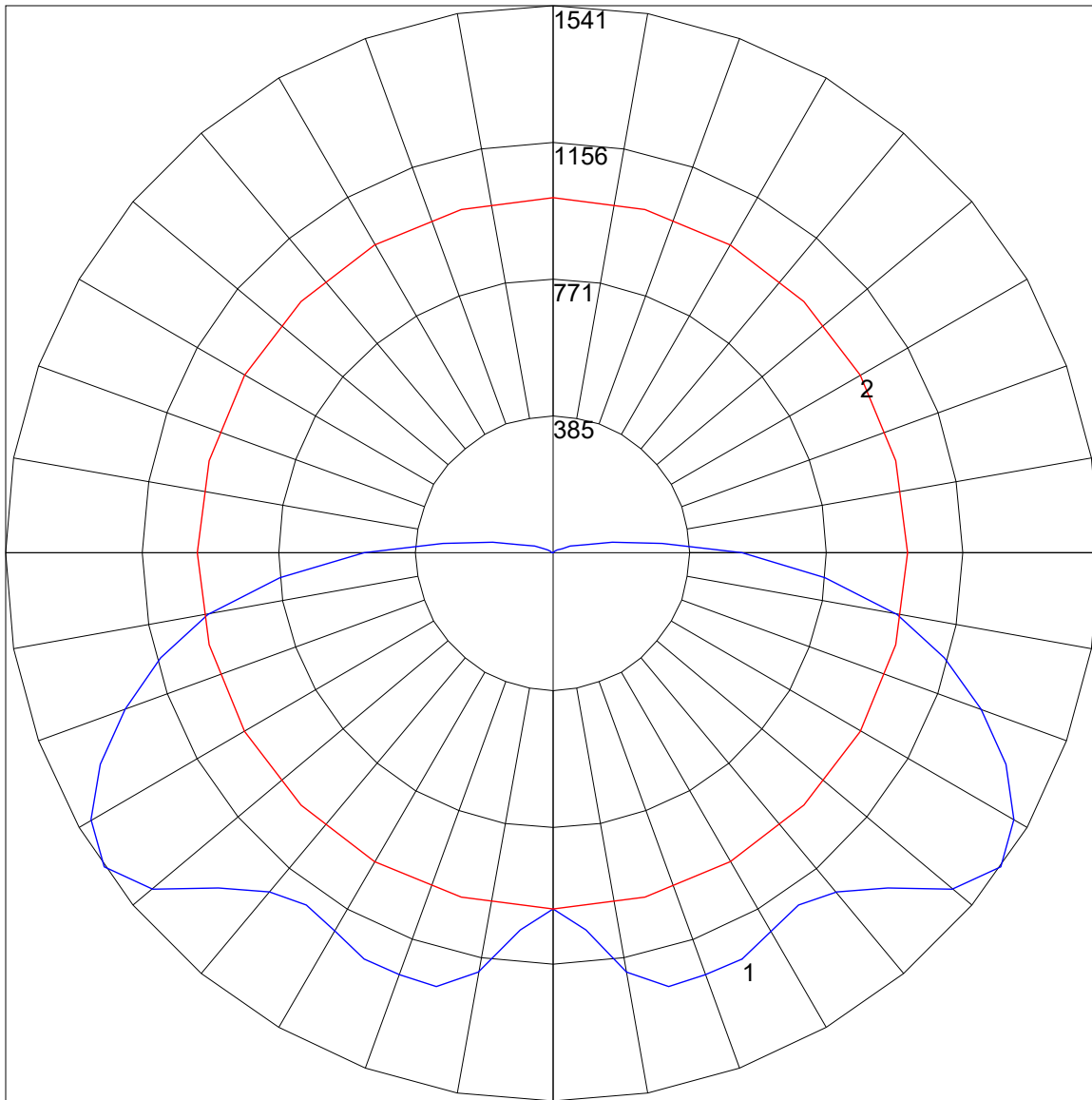
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UGR TABLE - CORRECTED

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	15.0	16.7	15.4	17.1	17.5	20.4	22.1	20.8	22.5	23.0
	3H	16.6	18.1	17.0	18.6	19.0	23.5	25.1	23.9	25.5	26.0
	4H	17.1	18.6	17.6	19.1	19.6	24.9	26.4	25.4	26.9	27.3
	6H	17.6	19.0	18.0	19.4	19.9	26.3	27.7	26.7	28.1	28.7
	8H	17.7	19.1	18.2	19.6	20.1	26.9	28.3	27.4	28.8	29.3
	12H	17.8	19.1	18.3	19.6	20.2	27.6	28.9	28.1	29.3	29.9
4H	2H	16.9	18.4	17.3	18.8	19.3	20.7	22.3	21.2	22.7	23.2
	3H	18.8	20.1	19.2	20.6	21.1	24.1	25.4	24.6	25.9	26.4
	4H	19.5	20.7	20.0	21.2	21.8	25.7	26.9	26.2	27.4	27.9
	6H	20.0	21.1	20.5	21.6	22.2	27.2	28.3	27.8	28.8	29.4
	8H	20.1	21.2	20.7	21.7	22.3	28.0	29.0	28.5	29.5	30.1
	12H	20.3	21.2	20.8	21.8	22.4	28.7	29.7	29.3	30.2	30.8
8H	4H	20.8	21.8	21.3	22.3	22.9	25.8	26.9	26.4	27.4	28.0
	6H	21.6	22.5	22.2	23.1	23.6	27.6	28.5	28.1	29.0	29.6
	8H	21.9	22.7	22.5	23.3	23.9	28.5	29.3	29.0	29.9	30.4
	12H	22.1	22.8	22.7	23.4	24.1	29.4	30.1	30.0	30.7	31.3
12H	4H	21.1	22.0	21.6	22.6	23.2	25.9	26.8	26.4	27.4	27.9
	6H	22.1	22.9	22.6	23.4	24.1	27.6	28.4	28.2	29.0	29.6
	8H	22.5	23.2	23.1	23.8	24.4	28.6	29.3	29.1	29.9	30.5

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 1541.424 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)