



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTLOWT50120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2021.0.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUEDATE]  
 [TESTDATE] Mon Jun 21 14:49:56 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTLOWT50120-277V\_S  
 [LAMP] LED 0.915W DURIS S 5 3030 (150mA)  
 [LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1  
 [OTHER]

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	3.02
Spacing Criterion (Diagonal)	2.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.32 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3475	5537	6561
55	3602	5749	8402
65	3460	6719	9840
75	2820	7166	9672
85	2185	7023	10048

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	355.08	355.08	355.08	355.08	355.08	355.08	355.08	355.08	355.08	355.08
<b>5</b>	366.54	339.61	334.16	355.30	350.85	361.33	349.33	357.78	355.43	366.41
<b>10</b>	338.00	342.41	341.34	349.78	355.67	357.32	374.52	377.69	423.16	410.78
<b>15</b>	320.26	339.37	348.76	373.32	376.91	398.61	420.07	443.38	484.34	504.74
<b>20</b>	335.34	348.12	357.00	379.31	411.29	448.52	498.62	523.33	575.17	589.69
<b>25</b>	348.13	349.64	373.62	399.97	441.58	494.96	551.87	591.77	634.95	681.76
<b>30</b>	356.83	360.69	379.23	425.01	471.77	529.91	597.18	670.81	695.50	725.81
<b>35</b>	343.69	363.45	398.37	447.09	502.54	562.20	613.11	668.09	699.75	737.33
<b>40</b>	347.97	346.94	395.10	448.49	513.20	582.58	634.45	653.69	686.56	711.72
<b>45</b>	329.29	349.63	382.48	445.03	515.92	554.36	612.50	644.91	654.73	691.63
<b>50</b>	315.13	320.93	369.14	427.84	480.24	536.00	568.50	584.79	633.28	659.83
<b>55</b>	291.31	301.70	343.48	394.69	445.58	495.73	539.93	579.15	616.02	665.75
<b>60</b>	254.17	273.18	307.32	351.60	399.42	445.38	502.08	561.03	619.41	679.15
<b>65</b>	223.28	228.21	259.98	301.18	349.09	406.03	478.19	549.48	623.32	693.35
<b>70</b>	172.34	181.94	208.93	245.72	304.22	369.92	438.45	525.03	596.99	681.87
<b>75</b>	130.38	138.55	161.75	197.15	253.25	316.72	397.52	480.57	561.27	626.47
<b>80</b>	88.41	96.41	116.43	155.81	205.09	277.65	344.29	422.57	496.28	557.33
<b>85</b>	57.93	59.91	80.48	119.69	164.58	223.67	290.92	363.02	426.02	484.66
<b>90</b>	30.58	39.17	51.79	81.30	125.65	173.81	229.75	289.54	343.89	394.60
<b>95</b>	16.20	19.15	27.90	47.64	77.63	116.74	162.72	203.75	239.51	276.86
<b>100</b>	11.08	9.30	12.73	23.50	41.05	66.25	91.09	115.78	139.39	157.95
<b>105</b>	5.22	6.20	6.33	9.53	17.98	30.36	49.59	58.63	73.47	85.05
<b>110</b>	4.21	4.27	3.84	4.35	7.75	13.28	21.10	27.21	37.90	46.35
<b>115</b>	1.96	2.48	2.13	2.75	3.08	4.66	9.66	12.34	17.88	22.91
<b>120</b>	2.12	1.74	1.49	1.76	1.34	1.88	2.77	5.57	8.45	11.25
<b>125</b>	1.35	0.94	0.82	0.76	0.69	1.13	1.13	1.77	3.85	5.96
<b>130</b>	0.82	0.74	0.40	0.45	0.35	0.30	0.33	0.59	0.71	2.27
<b>135</b>	0.39	0.30	0.34	0.10	0.25	0.13	0.07	0.38	0.34	0.50
<b>140</b>	0.00	0.03	0.07	0.11	0.06	0.09	0.22	0.07	0.08	0.20
<b>145</b>	0.00	0.00	0.00	0.05	0.05	0.07	0.00	0.11	0.05	0.04
<b>150</b>	0.00	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07
<b>155</b>	0.00	0.00	0.03	0.00	0.08	0.07	0.00	0.00	0.00	0.09
<b>160</b>	0.00	0.06	0.08	0.00	0.01	0.06	0.00	0.00	0.00	0.16
<b>165</b>	0.00	0.01	0.00	0.11	0.12	0.00	0.00	0.01	0.00	0.00
<b>170</b>	0.66	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	355.08	355.08	355.08	355.08	355.08	355.08	355.08	355.08	355.08
<b>5</b>	385.08	357.49	363.49	373.07	376.01	375.90	383.88	375.46	393.73
<b>10</b>	430.77	436.68	457.62	469.07	465.33	482.04	487.29	482.54	491.75
<b>15</b>	524.31	538.20	577.25	591.98	627.91	618.62	629.39	633.93	627.70
<b>20</b>	648.07	674.03	706.01	721.60	744.13	735.93	770.96	775.81	759.13
<b>25</b>	704.85	754.93	755.13	790.05	809.04	805.89	814.41	834.66	831.81
<b>30</b>	751.72	777.44	792.79	802.19	825.29	820.50	840.06	840.54	834.12
<b>35</b>	742.96	756.16	782.64	800.48	803.04	810.65	832.40	837.08	838.86
<b>40</b>	733.14	740.78	759.35	773.99	798.78	812.75	834.47	817.52	826.99
<b>45</b>	705.41	733.08	761.66	776.13	794.19	823.60	846.47	860.68	857.20
<b>50</b>	699.16	747.77	773.67	801.88	851.40	882.69	917.29	932.96	952.73
<b>55</b>	715.09	770.66	833.86	868.63	932.23	981.04	1016.73	1033.96	1028.80
<b>60</b>	744.33	812.53	873.55	939.98	987.72	1032.11	1055.09	1082.75	1079.91

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	764.05	838.65	881.56	950.35	979.04	1010.01	1052.87	1069.11	1087.61
<b>70</b>	745.73	802.51	845.63	896.32	927.34	950.38	983.08	997.37	1009.43
<b>75</b>	683.26	739.63	770.96	805.41	850.53	878.86	894.89	905.91	921.30
<b>80</b>	613.16	660.12	704.90	741.06	760.25	786.98	808.08	831.97	834.13
<b>85</b>	526.16	579.06	618.01	655.00	685.63	712.04	730.11	759.59	774.48
<b>90</b>	435.48	475.09	510.79	556.65	580.29	603.47	622.04	640.27	654.06
<b>95</b>	307.30	339.54	362.95	392.36	410.71	431.44	443.43	463.95	467.61
<b>100</b>	177.88	200.48	214.84	231.37	245.77	254.12	258.19	276.74	266.52
<b>105</b>	97.66	109.69	116.31	123.77	134.30	140.82	147.12	154.00	147.00
<b>110</b>	51.02	59.26	67.66	69.76	74.22	78.65	84.73	84.84	87.03
<b>115</b>	28.88	33.73	36.13	42.48	43.62	47.02	48.83	52.87	50.18
<b>120</b>	13.17	16.36	20.71	24.10	24.96	27.50	29.57	29.48	31.85
<b>125</b>	7.08	8.23	12.46	12.58	14.25	13.97	15.07	14.93	16.26
<b>130</b>	3.69	5.81	6.38	6.49	8.28	8.32	8.42	9.31	9.43
<b>135</b>	1.14	2.02	2.82	3.66	2.89	3.81	4.60	4.66	4.60
<b>140</b>	0.20	0.33	0.59	1.08	1.49	1.26	2.10	2.24	2.30
<b>145</b>	0.12	0.50	0.34	0.33	0.78	0.60	0.46	0.39	0.57
<b>150</b>	0.00	0.12	0.19	0.17	0.13	0.17	0.08	0.06	0.31
<b>155</b>	0.07	0.17	0.09	0.00	0.14	0.06	0.08	0.04	0.13
<b>160</b>	0.00	0.01	0.00	0.00	0.00	0.10	0.00	0.10	0.15
<b>165</b>	0.00	0.00	0.25	0.01	0.00	0.00	0.10	0.01	0.00
<b>170</b>	0.00	0.17	0.00	0.00	0.19	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.98	N.A.	4.30
0-30	469.88	N.A.	11.40
0-40	885.41	N.A.	21.40
0-60	1997.57	N.A.	48.30
0-80	3254.1	N.A.	78.70
0-90	3728.65	N.A.	90.20
10-90	3692.23	N.A.	89.30
20-40	706.43	N.A.	17.10
20-50	1213.51	N.A.	29.40
40-70	1770.93	N.A.	42.80
60-80	1256.54	N.A.	30.40
70-80	597.76	N.A.	14.50
80-90	474.54	N.A.	11.50
90-110	370.31	N.A.	9.00
90-120	396.60	N.A.	9.60
90-130	403.59	N.A.	9.80
90-150	405.32	N.A.	9.80
90-180	405.36	N.A.	9.80
110-180	35.05	N.A.	0.80
0-180	4134.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.41
10-20	142.57
20-30	290.90
30-40	415.53
40-50	507.08
50-60	605.08
60-70	658.78
70-80	597.76
80-90	474.54
90-100	277.26
100-110	93.05
110-120	26.29
120-130	6.99
130-140	1.54
140-150	0.19
150-160	0.03
160-170	0.01
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	101	93	87	81	97	90	84	79	84	79	74	78	74	70	73	69	66	63
2	89	78	69	61	85	75	66	59	69	62	56	64	59	53	60	55	51	48
3	79	66	56	47	76	64	54	46	59	51	44	55	48	42	51	45	40	37
4	72	57	46	38	68	55	45	37	51	42	36	47	40	34	44	38	32	30
5	65	50	39	32	62	48	38	31	45	36	30	42	34	28	39	32	27	24
6	60	44	34	27	57	43	33	26	40	31	25	37	30	24	34	28	23	20
7	55	40	30	23	52	38	29	22	36	27	21	33	26	20	31	25	20	17
8	51	36	26	20	49	35	26	19	32	24	19	30	23	18	28	22	17	15
9	47	32	23	17	45	31	23	17	29	22	16	28	21	16	26	20	15	13
10	44	30	21	15	42	29	21	15	27	20	14	25	19	14	24	18	13	11

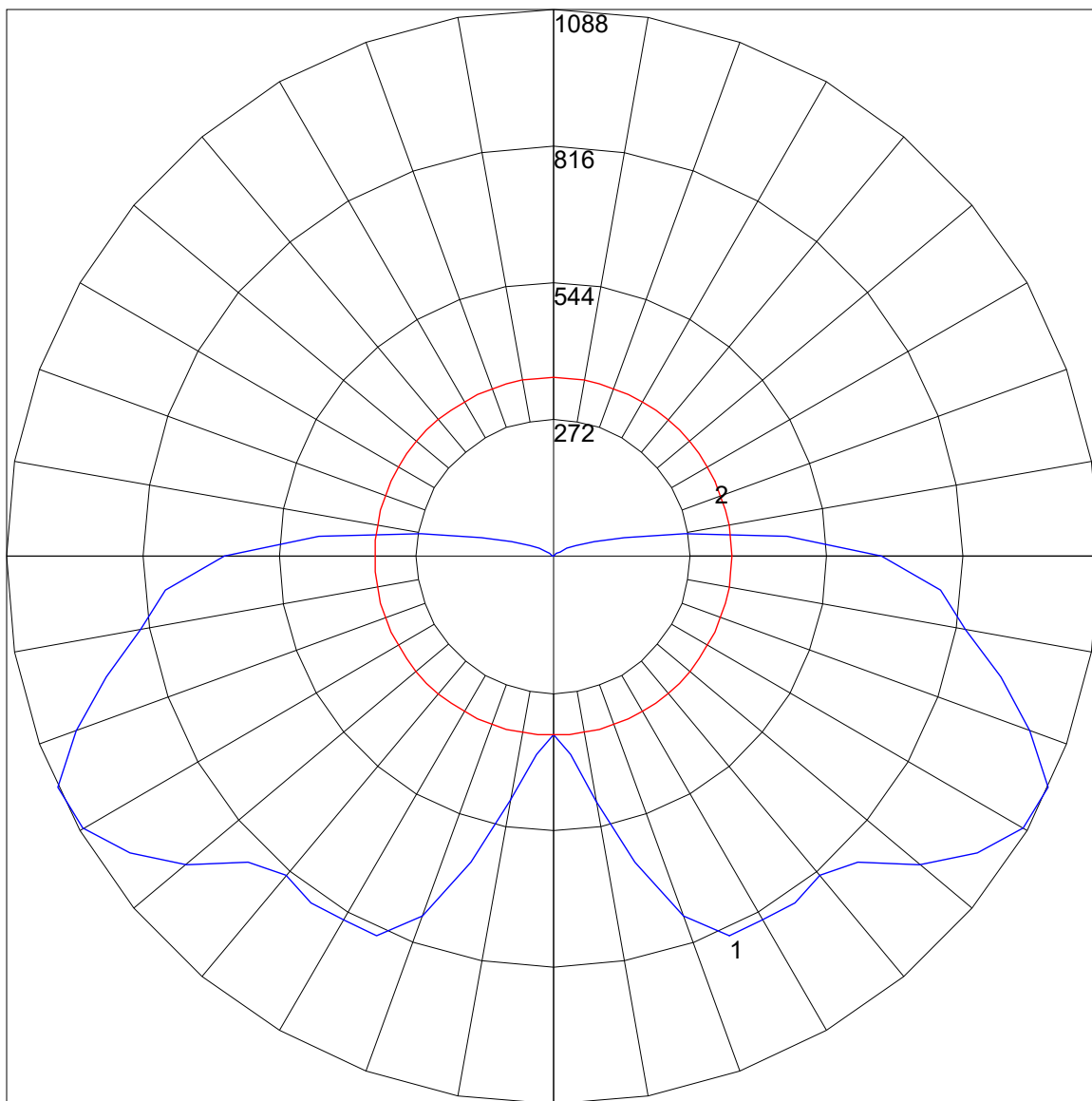
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**UGR TABLE - CORRECTED**

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	14.8	16.5	15.3	17.0	17.5	20.9	22.6	21.4	23.1	23.6
	3H	16.2	17.8	16.8	18.3	18.9	24.4	25.9	24.9	26.4	27.0
	4H	16.7	18.2	17.3	18.8	19.4	25.9	27.4	26.4	27.9	28.5
	6H	17.1	18.5	17.7	19.1	19.7	27.4	28.8	28.0	29.3	30.0
	8H	17.3	18.6	17.8	19.2	19.8	28.2	29.5	28.7	30.1	30.7
	12H	17.4	18.7	18.0	19.3	19.9	29.0	30.2	29.5	30.8	31.5
4H	2H	17.0	18.4	17.5	19.0	19.6	21.2	22.7	21.7	23.2	23.8
	3H	18.8	20.1	19.4	20.7	21.3	24.9	26.2	25.5	26.8	27.4
	4H	19.5	20.7	20.0	21.3	21.9	26.7	27.9	27.2	28.4	29.1
	6H	19.9	21.0	20.5	21.6	22.3	28.4	29.5	29.0	30.1	30.7
	8H	20.1	21.1	20.7	21.7	22.4	29.3	30.3	29.9	30.9	31.6
	12H	20.2	21.2	20.8	21.8	22.5	30.2	31.2	30.8	31.8	32.5
8H	4H	21.2	22.2	21.8	22.8	23.5	26.9	27.9	27.4	28.5	29.2
	6H	22.0	22.9	22.7	23.6	24.2	28.8	29.7	29.4	30.3	31.0
	8H	22.3	23.1	22.9	23.8	24.5	29.8	30.6	30.5	31.3	32.0
	12H	22.5	23.3	23.2	23.9	24.6	31.0	31.7	31.6	32.3	33.1
12H	4H	21.6	22.6	22.3	23.2	23.9	26.9	27.8	27.5	28.4	29.1
	6H	22.7	23.5	23.3	24.1	24.9	28.9	29.7	29.5	30.3	31.0
	8H	23.2	23.9	23.8	24.5	25.3	30.0	30.7	30.6	31.3	32.1

Maximum UGR = 33.1

POLAR GRAPH



Maximum Candela = 1087.61 Located At Horizontal Angle = 90, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)