



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTLOWT40120-277V\_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 14:46:33 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTLOWT40120-277V\_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	3908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	3.12
Spacing Criterion (Diagonal)	2.44
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	3373	5122	6335
55	3354	5451	8024
65	3135	6367	9226
75	2605	6849	9063
85	1792	6595	9326

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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>	321.46	321.46	321.46	321.46	321.46	321.46	321.46	321.46	321.46	321.46
<b>5</b>	301.77	319.54	320.07	311.35	330.68	321.15	329.97	329.86	342.58	357.92
<b>10</b>	314.62	321.48	320.60	337.23	323.76	348.97	359.43	367.55	367.52	376.84
<b>15</b>	325.57	325.03	329.86	344.33	361.00	377.53	390.48	408.67	453.96	477.12
<b>20</b>	320.02	328.62	342.02	351.55	380.01	421.06	455.67	499.60	542.54	571.64
<b>25</b>	317.90	328.87	354.62	386.04	417.41	467.87	517.22	573.51	601.60	652.23
<b>30</b>	334.01	339.23	363.82	400.16	449.05	510.04	571.46	617.50	660.24	697.87
<b>35</b>	328.95	337.38	362.38	417.18	473.12	535.43	599.01	631.81	669.64	689.71
<b>40</b>	316.88	331.63	374.88	426.21	483.84	542.59	594.31	631.63	646.36	663.23
<b>45</b>	319.64	325.94	370.89	425.12	470.89	525.07	567.22	601.27	612.19	639.81
<b>50</b>	299.21	310.48	349.11	400.87	457.76	495.67	535.66	570.20	587.46	628.39
<b>55</b>	271.27	287.49	327.63	384.09	418.53	465.76	502.37	540.57	588.04	631.31
<b>60</b>	238.55	256.67	291.53	330.55	376.25	419.10	473.14	527.32	574.64	635.03
<b>65</b>	202.27	216.75	246.94	285.28	329.81	379.14	445.58	510.12	595.49	656.94
<b>70</b>	166.43	170.74	197.40	236.93	280.34	346.66	414.26	502.75	576.08	654.21
<b>75</b>	120.43	127.25	153.49	188.75	236.76	306.25	372.84	465.24	534.06	598.80
<b>80</b>	79.52	87.83	111.04	146.50	194.84	259.73	332.04	405.32	472.15	520.77
<b>85</b>	47.51	57.87	77.67	106.11	158.06	211.48	279.59	341.44	400.25	455.11
<b>90</b>	27.53	34.88	51.36	75.79	112.04	164.24	220.56	270.75	330.01	371.91
<b>95</b>	15.74	16.89	28.85	45.52	75.82	111.79	153.72	188.63	225.24	256.20
<b>100</b>	8.90	9.37	12.35	23.12	39.78	60.92	86.96	108.42	129.67	151.34
<b>105</b>	5.75	5.47	5.81	10.01	17.74	31.82	43.43	55.04	70.12	80.44
<b>110</b>	3.24	4.27	3.92	4.80	6.95	13.06	20.21	28.27	35.75	42.95
<b>115</b>	2.11	2.50	2.43	2.10	2.56	4.41	8.57	13.97	17.16	22.71
<b>120</b>	1.84	1.44	1.43	1.39	1.32	1.73	3.32	5.74	6.75	10.68
<b>125</b>	1.44	0.94	0.87	0.93	0.70	0.86	1.07	1.78	3.36	5.13
<b>130</b>	0.39	0.19	0.79	0.32	0.18	0.28	0.28	0.95	1.06	1.72
<b>135</b>	0.22	0.39	0.15	0.31	0.18	0.10	0.20	0.27	0.46	0.46
<b>140</b>	0.18	0.05	0.05	0.00	0.00	0.05	0.11	0.14	0.10	0.39
<b>145</b>	0.00	0.00	0.00	0.00	0.04	0.04	0.05	0.00	0.03	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
<b>155</b>	0.00	0.00	0.06	0.05	0.00	0.00	0.04	0.06	0.06	0.07
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.19	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.00
<b>180</b>	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

**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>	321.46	321.46	321.46	321.46	321.46	321.46	321.46	321.46	321.46
<b>5</b>	358.66	349.11	351.88	364.40	359.78	335.50	376.45	368.95	371.24
<b>10</b>	412.32	416.22	431.00	434.98	445.77	450.33	464.99	450.60	444.68
<b>15</b>	507.09	530.37	543.30	569.19	584.51	588.25	597.71	609.67	607.27
<b>20</b>	594.20	628.61	659.26	670.87	690.22	699.94	705.16	722.32	709.48
<b>25</b>	686.38	701.16	711.20	746.75	757.31	768.78	774.43	783.36	782.54
<b>30</b>	703.62	722.94	749.15	754.44	768.37	773.08	783.86	793.42	789.16
<b>35</b>	710.95	720.19	738.62	755.09	751.27	781.61	787.14	789.50	797.09
<b>40</b>	681.42	708.27	713.55	734.90	743.06	774.21	782.63	792.03	789.34
<b>45</b>	670.32	686.88	717.87	729.33	769.74	782.92	810.59	813.87	827.64
<b>50</b>	666.28	700.04	727.38	784.70	806.95	846.12	862.31	899.81	897.51
<b>55</b>	672.81	732.28	791.11	845.69	891.25	928.51	957.57	975.49	982.58
<b>60</b>	707.58	769.68	831.05	888.34	946.40	973.89	1019.55	1033.48	1049.58

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	727.91	782.34	833.05	886.82	926.70	973.38	1000.02	1014.01	1019.74
<b>70</b>	707.28	763.95	802.95	848.15	881.35	905.59	926.82	957.98	962.68
<b>75</b>	652.24	695.89	738.33	763.64	806.51	819.29	848.40	862.40	863.27
<b>80</b>	577.20	626.32	657.38	687.18	727.65	747.84	767.82	782.59	779.88
<b>85</b>	499.32	540.45	579.84	609.34	642.61	673.79	694.20	712.90	718.85
<b>90</b>	415.93	446.18	483.74	517.24	538.82	574.44	584.30	598.84	589.27
<b>95</b>	295.81	320.77	341.31	369.21	386.78	405.83	423.09	428.73	436.06
<b>100</b>	167.22	184.36	203.04	212.31	229.92	234.99	243.00	250.91	256.90
<b>105</b>	91.37	100.08	109.92	120.35	124.44	129.85	129.63	139.06	138.32
<b>110</b>	52.64	56.39	62.12	67.65	72.12	75.43	81.00	80.17	81.15
<b>115</b>	26.30	30.48	34.56	38.38	42.16	45.66	45.69	49.33	47.31
<b>120</b>	14.41	17.03	19.61	22.86	26.25	25.73	25.53	28.93	28.05
<b>125</b>	7.67	8.48	11.26	11.61	11.34	14.11	13.77	14.56	15.34
<b>130</b>	3.71	4.44	5.81	6.09	6.31	7.34	8.68	8.49	7.59
<b>135</b>	1.10	1.58	1.81	3.24	3.52	3.80	3.85	4.43	3.30
<b>140</b>	0.60	0.51	0.79	0.92	1.09	1.06	2.01	2.36	2.22
<b>145</b>	0.28	0.16	0.17	0.26	0.37	0.25	0.22	0.24	0.50
<b>150</b>	0.00	0.07	0.15	0.17	0.11	0.12	0.30	0.02	0.13
<b>155</b>	0.12	0.06	0.12	0.06	0.00	0.16	0.00	0.00	0.01
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
<b>165</b>	0.00	0.11	0.00	0.00	0.06	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.12	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>	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	168.64	N.A.	4.30
0-30	443.08	N.A.	11.30
0-40	835.89	N.A.	21.40
0-60	1889.68	N.A.	48.40
0-80	3080.36	N.A.	78.80
0-90	3526.95	N.A.	90.30
10-90	3492.83	N.A.	89.40
20-40	667.25	N.A.	17.10
20-50	1146.92	N.A.	29.30
40-70	1677.75	N.A.	42.90
60-80	1190.68	N.A.	30.50
70-80	566.72	N.A.	14.50
80-90	446.59	N.A.	11.40
90-110	347.59	N.A.	8.90
90-120	372.64	N.A.	9.50
90-130	379.23	N.A.	9.70
90-150	380.78	N.A.	9.70
90-180	380.80	N.A.	9.70
110-180	33.21	N.A.	0.80
0-180	3907.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.12
10-20	134.52
20-30	274.45
30-40	392.81
40-50	479.67
50-60	574.12
60-70	623.96
70-80	566.72
80-90	446.59
90-100	260.55
100-110	87.04
110-120	25.05
120-130	6.59
130-140	1.39
140-150	0.16
150-160	0.02
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	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	31	62	48	38	31	45	36	30	42	34	28	39	32	27	24
6	60	44	34	26	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

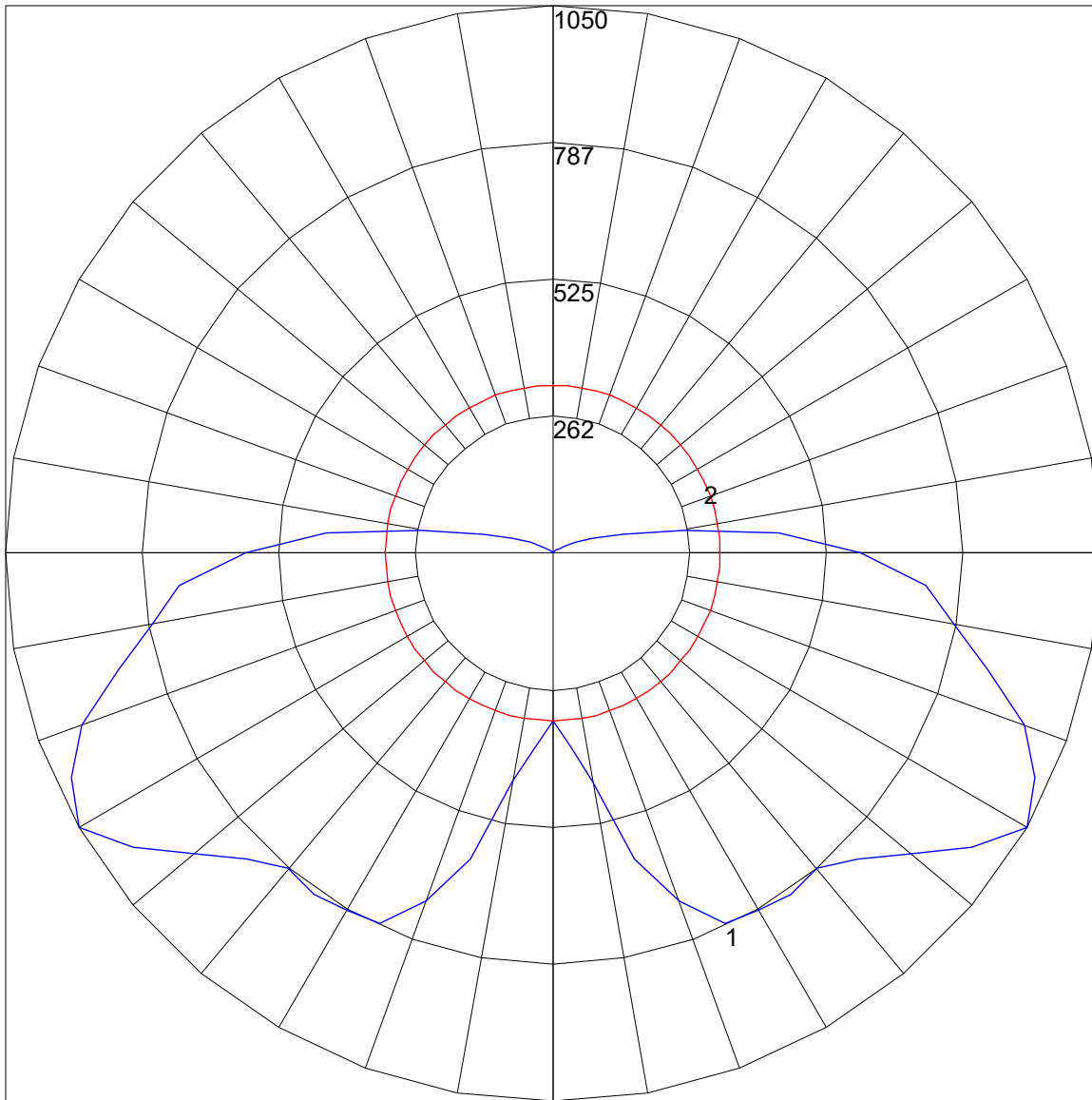
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**UGR TABLE - CORRECTED**

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	14.6	16.3	15.1	16.8	17.3	20.8	22.4	21.3	22.9	23.5
	3H	16.1	17.6	16.6	18.1	18.7	24.2	25.7	24.7	26.2	26.8
	4H	16.6	18.0	17.1	18.6	19.2	25.7	27.2	26.2	27.7	28.3
	6H	16.9	18.3	17.5	18.9	19.5	27.2	28.6	27.8	29.2	29.8
	8H	17.1	18.4	17.6	19.0	19.6	28.0	29.3	28.5	29.9	30.5
	12H	17.2	18.5	17.7	19.0	19.7	28.8	30.0	29.3	30.6	31.3
4H	2H	16.8	18.2	17.3	18.8	19.4	21.1	22.6	21.6	23.1	23.7
	3H	18.6	19.9	19.2	20.5	21.1	24.8	26.1	25.3	26.6	27.3
	4H	19.3	20.5	19.9	21.1	21.7	26.5	27.7	27.1	28.3	28.9
	6H	19.8	20.8	20.3	21.4	22.1	28.2	29.3	28.8	29.9	30.6
	8H	19.9	20.9	20.5	21.5	22.2	29.1	30.1	29.7	30.7	31.4
	12H	20.0	21.0	20.6	21.6	22.3	30.0	31.0	30.6	31.6	32.3
8H	4H	21.0	22.1	21.6	22.7	23.3	26.7	27.7	27.3	28.3	29.0
	6H	21.9	22.7	22.5	23.4	24.1	28.6	29.5	29.2	30.1	30.8
	8H	22.1	23.0	22.8	23.6	24.3	29.6	30.4	30.3	31.1	31.8
	12H	22.4	23.1	23.0	23.7	24.5	30.8	31.5	31.4	32.1	32.9
12H	4H	21.5	22.4	22.1	23.0	23.7	26.7	27.6	27.3	28.3	29.0
	6H	22.5	23.3	23.2	23.9	24.7	28.7	29.5	29.3	30.1	30.8
	8H	23.0	23.7	23.6	24.3	25.1	29.8	30.5	30.4	31.1	31.9

Maximum UGR = 32.9

POLAR GRAPH



Maximum Candela = 1049.58 Located At Horizontal Angle = 90, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)