



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTMOWT40120-277V\_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] Tue Jun 22 09:45:44 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTMOWT40120-277V  
 [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	5205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	3.14
Spacing Criterion (Diagonal)	2.48
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	4137	6840	8190
55	4589	7231	10710
65	4212	8586	12440
75	3455	9174	12075
85	2547	8749	12290

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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>	419.66	419.66	419.66	419.66	419.66	419.66	419.66	419.66	419.66	419.66
<b>5</b>	451.32	399.86	448.43	426.28	429.37	420.17	426.58	442.78	451.49	460.46
<b>10</b>	441.07	428.93	436.22	453.23	439.63	447.53	456.66	494.48	493.91	520.87
<b>15</b>	446.34	440.21	434.43	459.10	472.07	528.78	537.64	559.51	581.62	624.17
<b>20</b>	425.94	434.84	455.14	483.85	501.01	548.93	597.93	664.03	700.44	746.18
<b>25</b>	430.33	449.52	459.97	504.75	558.69	622.98	677.90	741.05	810.52	867.77
<b>30</b>	428.70	444.35	481.81	534.58	587.35	670.78	753.08	815.37	881.33	930.75
<b>35</b>	420.09	437.33	487.28	562.83	624.22	710.75	795.06	837.66	874.84	912.86
<b>40</b>	423.66	436.75	496.66	565.17	641.78	721.40	777.25	824.24	860.04	889.26
<b>45</b>	392.01	429.96	485.93	573.72	639.04	711.73	748.52	786.68	818.42	854.49
<b>50</b>	401.33	404.93	470.41	541.09	606.75	671.26	706.77	750.04	787.30	836.11
<b>55</b>	371.13	384.84	426.76	499.98	564.63	625.93	672.76	724.31	781.97	837.39
<b>60</b>	320.84	335.92	390.59	436.45	497.76	558.34	625.56	707.52	777.48	857.16
<b>65</b>	271.77	287.89	327.06	381.57	442.46	517.07	589.33	685.85	794.41	885.93
<b>70</b>	212.10	237.05	267.35	314.09	380.37	459.10	567.19	665.12	772.54	861.54
<b>75</b>	159.71	172.68	197.12	252.72	319.74	406.24	503.21	599.71	706.27	802.03
<b>80</b>	114.03	121.69	147.69	194.50	262.63	351.39	444.75	544.60	630.81	705.60
<b>85</b>	67.54	78.39	102.95	148.55	203.50	277.61	367.09	453.02	534.31	603.74
<b>90</b>	39.05	48.21	69.99	104.21	150.11	218.96	288.36	372.55	438.38	502.98
<b>95</b>	21.05	23.44	35.78	61.72	96.80	149.16	205.87	253.73	299.75	351.13
<b>100</b>	12.34	13.11	15.38	30.27	53.02	78.51	115.60	141.86	169.18	196.61
<b>105</b>	6.36	7.07	8.90	14.30	23.82	39.88	59.45	75.88	93.32	107.30
<b>110</b>	4.27	4.57	5.73	5.99	8.82	16.02	24.89	36.82	47.67	55.94
<b>115</b>	2.97	3.49	3.37	2.69	2.98	5.44	11.59	15.55	23.41	28.53
<b>120</b>	3.31	2.34	1.72	1.77	2.13	1.90	3.84	6.88	11.13	15.01
<b>125</b>	1.53	0.85	0.92	1.28	1.12	0.86	1.02	2.20	4.47	6.11
<b>130</b>	0.47	1.05	0.62	0.73	0.56	0.60	0.38	0.79	1.19	2.46
<b>135</b>	0.25	0.28	0.36	0.24	0.07	0.22	0.11	0.20	0.52	0.82
<b>140</b>	0.15	0.09	0.14	0.08	0.09	0.06	0.06	0.01	0.22	0.37
<b>145</b>	0.01	0.00	0.00	0.00	0.08	0.05	0.08	0.13	0.12	0.14
<b>150</b>	0.00	0.08	0.00	0.05	0.23	0.00	0.00	0.01	0.00	0.00
<b>155</b>	0.02	0.00	0.11	0.00	0.00	0.10	0.10	0.03	0.01	0.00
<b>160</b>	0.19	0.00	0.00	0.00	0.00	0.10	0.09	0.00	0.04	0.23
<b>165</b>	0.00	0.00	0.00	0.17	0.02	0.00	0.00	0.07	0.00	0.00
<b>170</b>	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.16
<b>175</b>	0.00	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	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>	419.66	419.66	419.66	419.66	419.66	419.66	419.66	419.66	419.66
<b>5</b>	452.97	462.15	457.30	456.21	469.27	490.17	476.19	474.56	512.07
<b>10</b>	511.95	550.75	571.25	590.13	600.87	581.34	610.75	620.85	626.80
<b>15</b>	653.31	694.50	726.14	759.63	769.05	781.13	797.78	811.76	806.95
<b>20</b>	795.55	841.72	876.75	899.32	920.15	936.52	970.84	978.39	956.71
<b>25</b>	901.72	921.55	979.77	1000.88	1036.10	1048.62	1030.06	1036.31	1062.24
<b>30</b>	956.20	958.23	987.33	1028.19	1002.02	1024.09	1066.58	1070.62	1062.50
<b>35</b>	952.96	966.64	973.87	1002.00	1011.68	1028.72	1050.37	1045.01	1025.46
<b>40</b>	920.26	924.03	945.08	982.56	997.09	1026.02	1046.38	1050.83	1063.37
<b>45</b>	871.91	919.03	943.13	963.01	1001.23	1049.85	1080.42	1072.97	1070.01
<b>50</b>	872.49	930.39	987.93	1042.01	1089.90	1122.72	1150.55	1199.20	1184.62
<b>55</b>	902.73	974.02	1048.70	1110.14	1174.54	1218.07	1265.18	1298.49	1311.40
<b>60</b>	961.31	1030.05	1108.24	1190.38	1245.18	1289.15	1334.82	1375.37	1369.43

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	955.92	1047.93	1121.28	1178.60	1234.59	1287.48	1316.83	1350.11	1375.03
<b>70</b>	934.90	1001.95	1077.60	1123.98	1167.29	1194.35	1239.96	1258.32	1245.89
<b>75</b>	875.31	917.81	976.72	1034.14	1061.13	1109.20	1135.14	1162.36	1150.22
<b>80</b>	772.73	821.15	879.93	934.46	971.32	994.00	1033.08	1044.61	1082.58
<b>85</b>	666.14	716.43	774.63	822.47	865.64	896.48	926.72	950.46	947.35
<b>90</b>	557.73	594.94	646.77	698.06	723.52	767.97	778.83	795.94	808.95
<b>95</b>	390.97	427.26	460.83	493.71	526.49	532.13	555.35	575.23	586.31
<b>100</b>	227.63	244.89	270.85	290.39	312.26	324.38	328.56	339.74	340.00
<b>105</b>	121.75	135.92	149.35	153.63	168.03	171.41	180.49	185.53	192.58
<b>110</b>	64.89	76.45	83.13	91.88	96.38	103.88	106.50	104.76	102.21
<b>115</b>	35.88	40.30	48.06	53.89	55.77	57.68	59.83	64.65	66.69
<b>120</b>	19.18	22.67	27.68	29.10	32.63	34.42	34.38	39.64	38.71
<b>125</b>	8.25	10.77	14.41	17.90	17.37	19.79	18.98	21.20	23.20
<b>130</b>	3.81	5.33	7.78	8.43	8.45	11.32	11.04	12.13	9.79
<b>135</b>	1.42	2.83	3.79	4.53	4.87	5.58	6.53	5.89	5.95
<b>140</b>	0.31	0.93	0.98	1.07	1.75	1.31	2.80	2.52	3.02
<b>145</b>	0.20	0.50	0.35	0.46	0.42	0.75	0.66	0.28	0.86
<b>150</b>	0.00	0.17	0.17	0.34	0.10	0.26	0.41	0.38	0.26
<b>155</b>	0.00	0.13	0.06	0.08	0.01	0.25	0.22	0.01	0.00
<b>160</b>	0.01	0.10	0.00	0.12	0.00	0.10	0.00	0.00	0.34
<b>165</b>	0.02	0.01	0.01	0.00	0.00	0.13	0.00	0.00	0.00
<b>170</b>	0.20	0.00	0.13	0.46	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.37	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	224.28	N.A.	4.30
0-30	590.38	N.A.	11.30
0-40	1111.91	N.A.	21.40
0-60	2511.67	N.A.	48.30
0-80	4098.15	N.A.	78.70
0-90	4695.41	N.A.	90.20
10-90	4650.27	N.A.	89.30
20-40	887.63	N.A.	17.10
20-50	1524.16	N.A.	29.30
40-70	2230.34	N.A.	42.80
60-80	1586.48	N.A.	30.50
70-80	755.90	N.A.	14.50
80-90	597.26	N.A.	11.50
90-110	465.34	N.A.	8.90
90-120	498.49	N.A.	9.60
90-130	507.41	N.A.	9.70
90-150	509.60	N.A.	9.80
90-180	509.65	N.A.	9.80
110-180	44.32	N.A.	0.90
0-180	5205.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.13
10-20	179.15
20-30	366.10
30-40	521.53
40-50	636.53
50-60	763.22
60-70	830.58
70-80	755.90
80-90	597.26
90-100	348.75
100-110	116.58
110-120	33.15
120-130	8.92
130-140	1.96
140-150	0.23
150-160	0.04
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	68	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	29	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

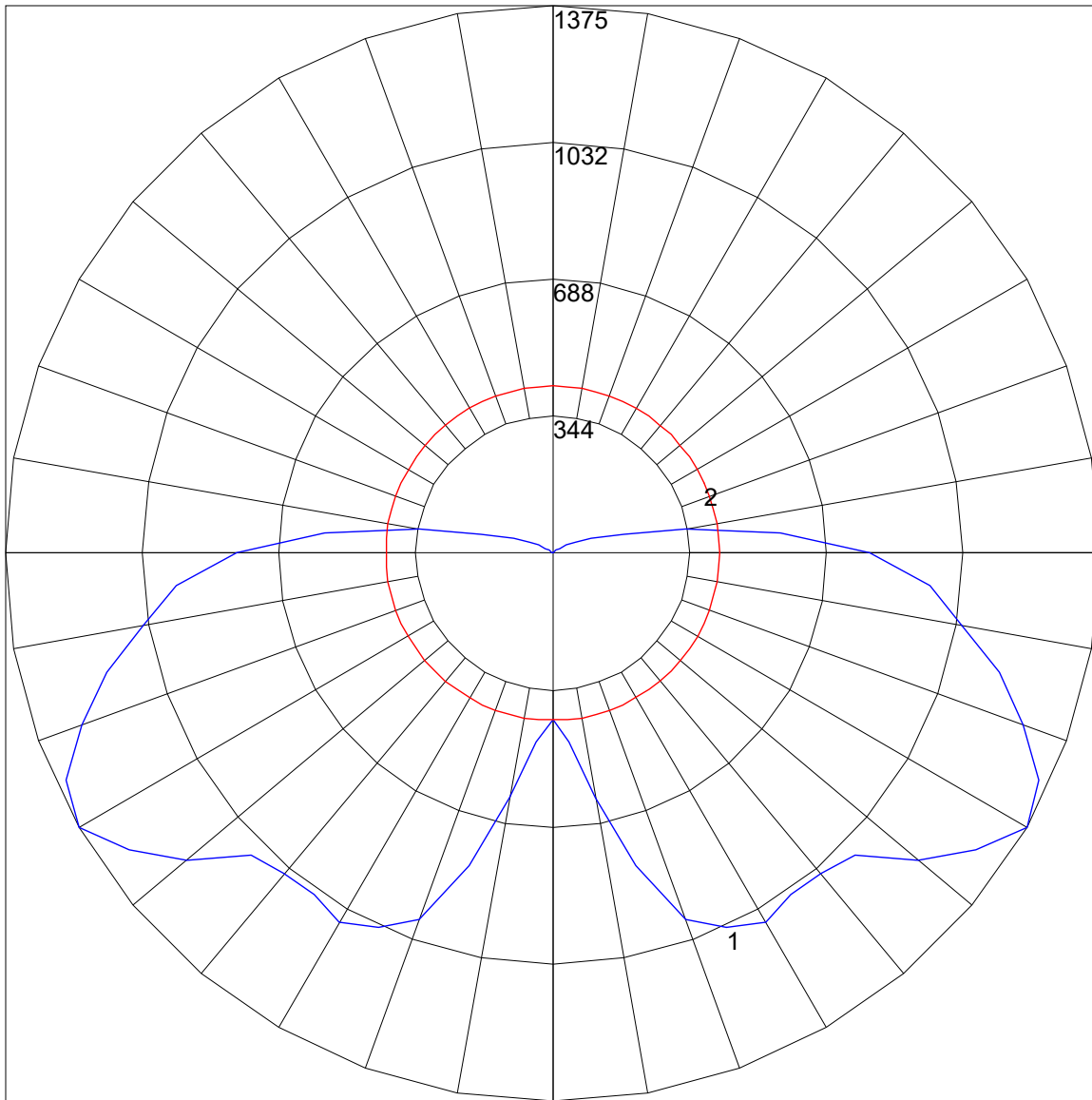
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**UGR TABLE - CORRECTED**

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	15.6	17.2	16.1	17.7	18.3	21.7	23.3	22.2	23.8	24.4
	3H	17.0	18.6	17.5	19.1	19.7	25.1	26.7	25.6	27.2	27.8
	4H	17.5	19.0	18.1	19.6	20.1	26.7	28.2	27.2	28.7	29.3
	6H	17.9	19.3	18.5	19.9	20.5	28.2	29.6	28.8	30.2	30.8
	8H	18.1	19.4	18.6	20.0	20.6	29.0	30.3	29.5	30.9	31.5
	12H	18.2	19.5	18.8	20.0	20.7	29.8	31.0	30.3	31.6	32.3
4H	2H	17.8	19.3	18.3	19.8	20.4	22.0	23.5	22.5	24.0	24.6
	3H	19.7	21.0	20.2	21.5	22.2	25.7	27.0	26.3	27.6	28.2
	4H	20.3	21.5	20.9	22.1	22.8	27.5	28.7	28.1	29.3	29.9
	6H	20.8	21.9	21.4	22.5	23.1	29.2	30.3	29.8	30.9	31.6
	8H	21.0	22.0	21.5	22.6	23.3	30.1	31.1	30.7	31.7	32.4
	12H	21.1	22.0	21.7	22.6	23.3	31.0	32.0	31.6	32.6	33.3
8H	4H	22.1	23.1	22.6	23.7	24.4	27.7	28.7	28.3	29.3	30.0
	6H	22.9	23.8	23.5	24.4	25.1	29.6	30.5	30.2	31.1	31.8
	8H	23.2	24.0	23.8	24.6	25.3	30.6	31.5	31.3	32.1	32.8
	12H	23.4	24.1	24.0	24.7	25.5	31.7	32.5	32.4	33.1	33.9
12H	4H	22.5	23.4	23.1	24.0	24.7	27.7	28.6	28.3	29.3	30.0
	6H	23.5	24.3	24.2	25.0	25.7	29.7	30.5	30.3	31.1	31.8
	8H	24.0	24.7	24.6	25.4	26.1	30.8	31.5	31.4	32.1	32.9

Maximum UGR = 33.9

POLAR GRAPH



Maximum Candela = 1375.37 Located At Horizontal Angle = 85, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)