



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVLOWT35120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2020.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUEDATE]  
 [TESTDATE] Mon Apr 12 16:26:04 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG4HTVLOWT35120-277V\_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	4170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.84
Spacing Criterion (Diagonal)	1.70
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	3212	3033	3838
55	3005	3333	4646
65	2488	3795	4668
75	1817	3765	4426
85	1246	3223	3708

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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>
<b>0</b>	736.25	736.25	736.25	736.25	736.25	736.25	736.25
<b>5</b>	720.83	713.15	728.52	737.84	754.33	770.59	758.00
<b>10</b>	706.92	718.31	753.20	786.24	813.67	841.77	829.63
<b>15</b>	700.75	715.82	794.90	828.36	873.02	890.10	884.59
<b>20</b>	691.91	720.85	802.30	857.08	881.19	899.05	896.61
<b>25</b>	670.43	718.21	787.05	836.68	856.62	882.91	896.98
<b>30</b>	657.59	708.45	774.63	802.13	819.45	839.37	859.56
<b>35</b>	624.97	683.29	733.07	764.15	790.55	829.49	851.56
<b>40</b>	602.45	647.57	693.08	722.20	780.20	840.36	874.82
<b>45</b>	555.75	595.60	646.93	704.82	789.41	901.05	958.78
<b>50</b>	498.20	543.56	601.60	694.93	842.63	980.31	1049.36
<b>55</b>	434.66	469.23	557.87	711.17	896.00	1024.31	1085.12
<b>60</b>	357.57	398.06	525.88	728.17	909.75	1011.70	1058.06
<b>65</b>	278.14	330.94	497.44	713.11	869.74	961.40	981.12
<b>70</b>	207.44	262.29	452.05	666.55	797.88	873.02	905.82
<b>75</b>	137.33	203.65	401.35	589.87	697.34	766.47	798.68
<b>80</b>	81.81	151.18	327.80	494.81	592.16	649.87	670.82
<b>85</b>	46.23	106.40	260.93	389.02	466.56	515.85	538.57
<b>90</b>	21.73	69.99	183.40	277.71	326.65	357.30	369.71
<b>95</b>	10.58	39.25	113.72	169.69	193.52	208.95	210.84
<b>100</b>	5.70	16.45	60.72	91.46	104.48	113.52	114.26
<b>105</b>	3.78	6.01	25.97	46.33	56.75	64.71	65.74
<b>110</b>	2.84	2.41	11.04	23.69	30.56	35.43	37.78
<b>115</b>	1.62	1.49	3.24	10.86	16.49	18.88	20.40
<b>120</b>	0.78	1.26	0.98	4.51	8.18	10.29	11.14
<b>125</b>	0.58	0.53	0.27	1.22	3.66	5.77	5.69
<b>130</b>	0.26	0.34	0.16	0.12	1.23	2.44	3.79
<b>135</b>	0.06	0.13	0.02	0.05	0.14	0.63	0.86
<b>140</b>	0.19	0.02	0.02	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	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	0.00
<b>180</b>	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	302.03	N.A.	7.20
0-30	675.49	N.A.	16.20
0-40	1151.47	N.A.	27.60
0-60	2377.06	N.A.	57.00
0-80	3582.31	N.A.	85.90
0-90	3948.76	N.A.	94.70
10-90	3876.7	N.A.	93.00
20-40	849.44	N.A.	20.40
20-50	1418.97	N.A.	34.00
40-70	1882.4	N.A.	45.10
60-80	1205.25	N.A.	28.90
70-80	548.44	N.A.	13.20
80-90	366.45	N.A.	8.80
90-110	206.57	N.A.	5.00
90-120	218.17	N.A.	5.20
90-130	220.69	N.A.	5.30
90-150	221.00	N.A.	5.30
90-180	221.00	N.A.	5.30
110-180	14.43	N.A.	0.30
0-180	4169.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.06
10-20	229.97
20-30	373.46
30-40	475.99
40-50	569.53
50-60	656.06
60-70	656.81
70-80	548.44
80-90	366.45
90-100	160.60
100-110	45.97
110-120	11.60
120-130	2.52
130-140	0.31
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	80	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	57	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

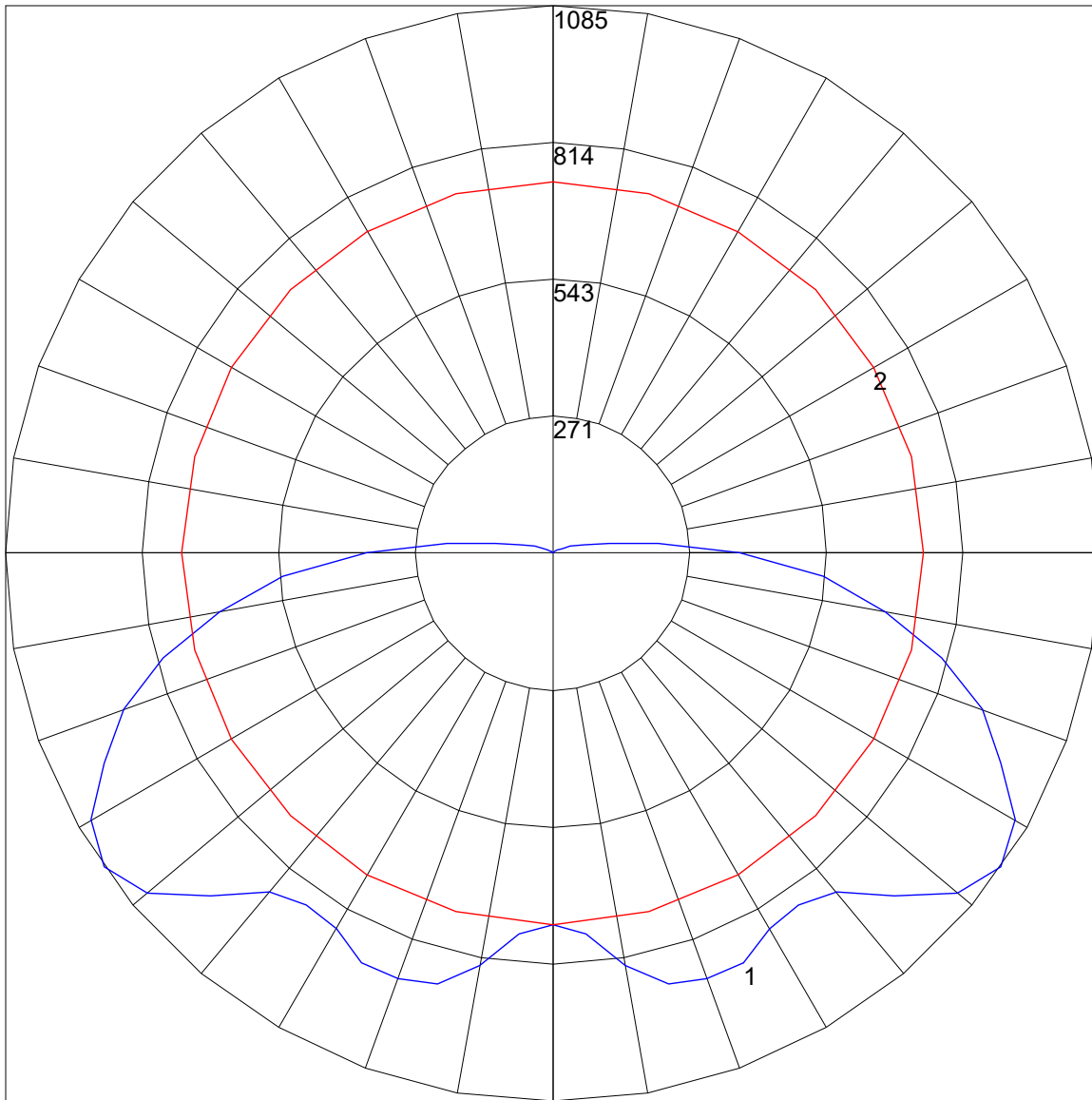
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**UGR TABLE - CORRECTED**

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	13.8	15.5	14.3	16.0	16.4	19.2	20.9	19.7	21.4	21.8
	3H	15.4	17.0	15.8	17.4	17.9	22.3	23.9	22.7	24.3	24.8
	4H	15.9	17.5	16.4	17.9	18.4	23.7	25.2	24.1	25.6	26.1
	6H	16.3	17.8	16.8	18.2	18.7	25.0	26.4	25.5	26.9	27.4
	8H	16.5	17.9	17.0	18.3	18.9	25.6	27.0	26.1	27.5	28.0
	12H	16.6	17.9	17.1	18.4	18.9	26.3	27.6	26.8	28.1	28.6
4H	2H	15.7	17.2	16.2	17.7	18.1	19.6	21.1	20.0	21.5	22.0
	3H	17.6	18.9	18.1	19.4	19.9	22.9	24.2	23.4	24.7	25.2
	4H	18.3	19.5	18.8	20.0	20.6	24.4	25.7	24.9	26.2	26.7
	6H	18.8	19.9	19.3	20.4	20.9	26.0	27.1	26.5	27.6	28.2
	8H	18.9	20.0	19.4	20.5	21.1	26.7	27.7	27.2	28.3	28.8
	12H	19.1	20.0	19.6	20.6	21.1	27.5	28.4	28.0	29.0	29.5
8H	4H	19.6	20.6	20.1	21.2	21.7	24.6	25.7	25.2	26.2	26.8
	6H	20.4	21.3	21.0	21.9	22.4	26.3	27.2	26.9	27.8	28.4
	8H	20.7	21.5	21.3	22.1	22.7	27.2	28.0	27.8	28.6	29.2
	12H	20.9	21.6	21.5	22.2	22.9	28.1	28.8	28.7	29.4	30.1
12H	4H	19.9	20.8	20.5	21.4	22.0	24.7	25.6	25.2	26.2	26.7
	6H	20.9	21.7	21.5	22.2	22.9	26.4	27.2	27.0	27.7	28.4
	8H	21.3	22.0	21.9	22.6	23.3	27.3	28.0	27.9	28.6	29.3

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1085.12 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)