



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVHOWT30120-277V\_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] Fri Apr 16 12:53:54 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG4HTVHOWT30120-277V\_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	8426
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.88
Spacing Criterion (Diagonal)	1.74
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	6419	6101	7667
55	5997	6745	9276
65	5146	7660	9607
75	3713	7569	8962
85	2549	6519	7509

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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	1441.63	1441.63	1441.63	1441.63	1441.63	1441.63	1441.63
5	1456.13	1433.96	1481.08	1474.98	1552.22	1526.89	1533.46
10	1421.39	1454.54	1532.93	1591.04	1662.55	1709.62	1706.30
15	1391.39	1448.93	1575.55	1679.64	1767.92	1782.71	1823.13
20	1388.72	1474.92	1620.15	1707.71	1782.28	1813.98	1826.71
25	1356.57	1461.83	1596.44	1691.77	1740.86	1797.42	1776.47
30	1325.36	1428.96	1561.97	1612.39	1678.71	1714.83	1740.62
35	1265.73	1374.13	1498.80	1550.49	1607.94	1677.54	1712.74
40	1173.09	1293.99	1391.68	1463.64	1573.19	1690.83	1751.44
45	1110.72	1198.18	1279.36	1417.92	1606.54	1817.87	1915.30
50	1013.89	1082.59	1198.24	1404.03	1700.43	1978.96	2089.34
55	867.31	943.11	1124.59	1439.24	1813.85	2074.77	2166.50
60	720.78	805.09	1067.52	1483.48	1847.27	2043.36	2141.78
65	575.40	665.60	1001.48	1439.21	1763.44	1955.70	2019.44
70	406.87	531.23	915.73	1340.97	1602.52	1760.90	1836.52
75	280.73	412.05	811.68	1185.89	1410.82	1553.30	1617.33
80	172.55	306.78	672.00	999.28	1191.95	1326.89	1376.60
85	94.55	216.18	520.87	786.90	945.29	1058.43	1090.58
90	48.12	139.79	375.36	557.36	663.60	720.71	747.17
95	21.49	77.98	230.48	333.47	395.07	427.07	423.17
100	9.81	34.04	120.53	182.90	212.80	230.88	236.52
105	7.29	12.81	57.15	95.68	115.55	125.56	130.61
110	5.46	5.07	21.04	45.59	62.99	70.65	74.72
115	3.27	2.86	6.98	22.46	33.36	38.63	42.74
120	2.40	1.86	1.95	8.85	16.96	20.29	22.15
125	1.18	0.88	0.59	2.96	8.01	10.35	11.22
130	0.43	0.60	0.26	0.26	2.26	4.98	5.69
135	0.46	0.09	0.11	0.04	0.21	1.01	1.92
140	0.06	0.00	0.02	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	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	609.74	N.A.	7.20
0-30	1365.79	N.A.	16.20
0-40	2328.00	N.A.	27.60
0-60	4795.96	N.A.	56.90
0-80	7235.74	N.A.	85.90
0-90	7979.35	N.A.	94.70
10-90	7834.08	N.A.	93.00
20-40	1718.26	N.A.	20.40
20-50	2862.47	N.A.	34.00
40-70	3798.4	N.A.	45.10
60-80	2439.78	N.A.	29.00
70-80	1109.34	N.A.	13.20
80-90	743.61	N.A.	8.80
90-110	417.50	N.A.	5.00
90-120	440.91	N.A.	5.20
90-130	445.89	N.A.	5.30
90-150	446.45	N.A.	5.30
90-180	446.45	N.A.	5.30
110-180	28.94	N.A.	0.30
0-180	8425.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.27
10-20	464.48
20-30	756.04
30-40	962.22
40-50	1144.21
50-60	1323.74
60-70	1330.44
70-80	1109.34
80-90	743.61
90-100	324.55
100-110	92.96
110-120	23.41
120-130	4.98
130-140	0.56
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	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	32	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

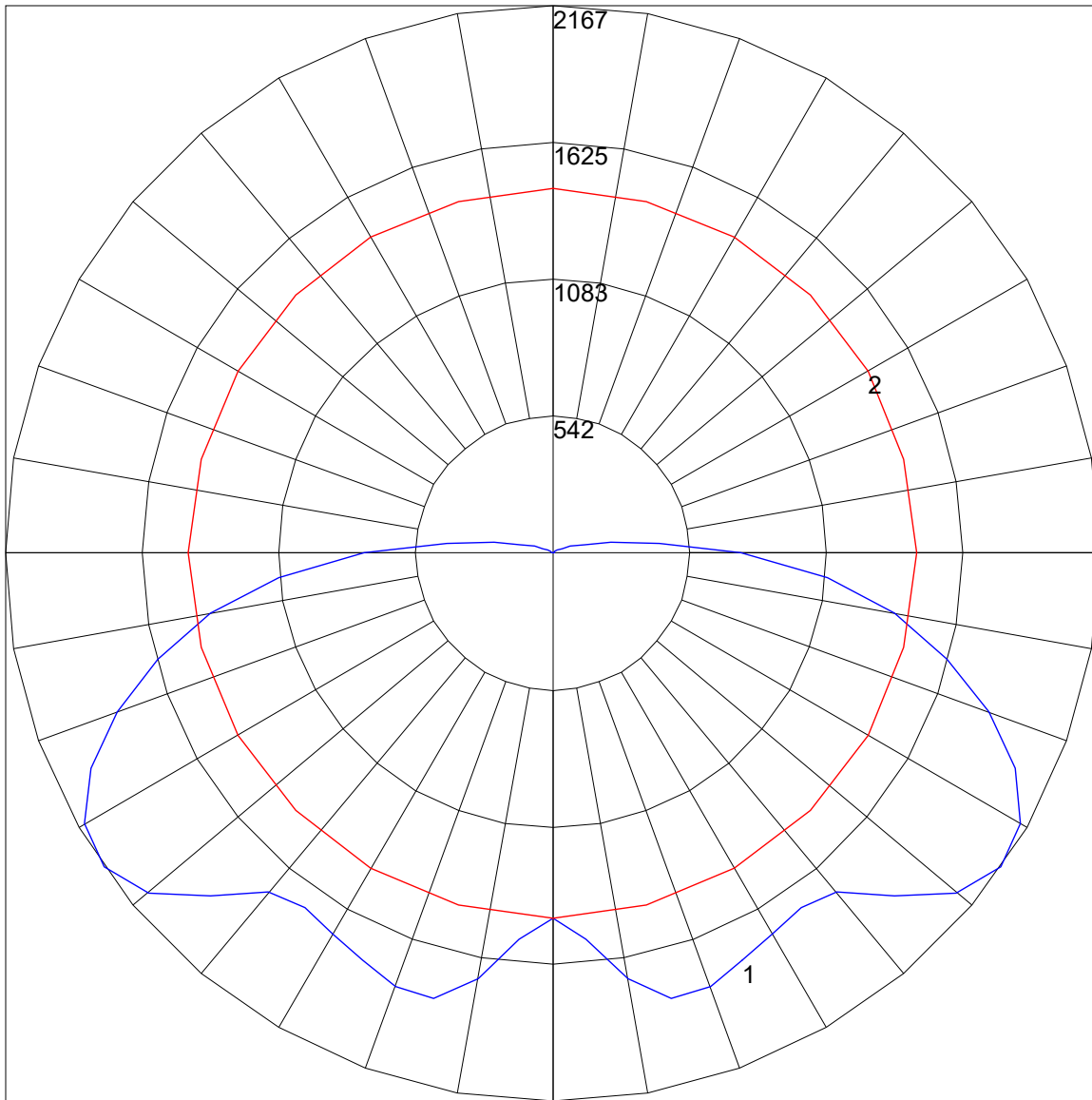
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**UGR TABLE - CORRECTED**

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	16.2	17.9	16.6	18.4	18.8	21.6	23.3	22.1	23.8	24.2
	3H	17.8	19.4	18.2	19.8	20.3	24.7	26.3	25.1	26.7	27.2
	4H	18.3	19.9	18.8	20.3	20.8	26.1	27.6	26.6	28.0	28.5
	6H	18.8	20.2	19.2	20.6	21.1	27.4	28.9	27.9	29.3	29.8
	8H	18.9	20.3	19.4	20.8	21.3	28.1	29.4	28.6	29.9	30.4
	12H	19.0	20.3	19.5	20.8	21.4	28.7	30.0	29.2	30.5	31.0
4H	2H	18.1	19.6	18.6	20.1	20.5	22.0	23.5	22.4	23.9	24.4
	3H	20.0	21.3	20.5	21.8	22.3	25.3	26.6	25.8	27.1	27.6
	4H	20.7	21.9	21.2	22.4	23.0	26.9	28.1	27.4	28.6	29.1
	6H	21.2	22.3	21.7	22.8	23.4	28.4	29.5	28.9	30.0	30.6
	8H	21.3	22.4	21.9	22.9	23.5	29.1	30.2	29.7	30.7	31.3
	12H	21.5	22.4	22.0	23.0	23.6	29.9	30.8	30.5	31.4	32.0
8H	4H	22.0	23.0	22.5	23.6	24.1	27.0	28.1	27.6	28.6	29.2
	6H	22.8	23.7	23.4	24.3	24.8	28.8	29.7	29.3	30.2	30.8
	8H	23.1	23.9	23.7	24.5	25.1	29.6	30.4	30.2	31.0	31.6
	12H	23.3	24.1	23.9	24.6	25.3	30.6	31.3	31.1	31.9	32.5
12H	4H	22.3	23.2	22.8	23.8	24.4	27.1	28.0	27.6	28.6	29.1
	6H	23.3	24.1	23.9	24.6	25.3	28.8	29.6	29.4	30.2	30.8
	8H	23.7	24.4	24.3	25.0	25.7	29.7	30.5	30.3	31.0	31.7

Maximum UGR = 32.5

POLAR GRAPH



Maximum Candela = 2166.5 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)