



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT40120-277V\_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 11:26:19 2021  
 [TEST] 1  
 [MANUFAC]  
 [LUMCAT]  
 [LUMINAIRE] BS100LEDPG2HTHOWT40120-277V\_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	6512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	3.16
Spacing Criterion (Diagonal)	2.50
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	5498	8611	10399
55	5542	9060	13444
65	5366	10578	15227
75	4475	11447	15331
85	3236	10978	15638

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	522.60	522.60	522.60	522.60	522.60	522.60	522.60	522.60	522.60	522.60
<b>5</b>	557.14	542.63	524.47	537.57	505.53	541.92	526.83	568.92	548.74	560.67
<b>10</b>	535.53	528.00	529.89	543.44	553.08	572.52	585.13	595.00	634.46	627.63
<b>15</b>	524.71	545.48	549.60	577.86	615.99	615.48	670.27	701.51	737.54	780.78
<b>20</b>	545.01	546.25	557.26	600.61	658.29	718.16	773.38	829.32	893.48	955.13
<b>25</b>	543.79	559.38	592.24	627.62	696.04	779.98	848.45	935.34	994.14	1076.69
<b>30</b>	565.73	565.19	598.18	665.94	751.47	855.55	945.56	1028.49	1076.17	1146.17
<b>35</b>	542.41	558.10	619.73	697.63	795.74	901.45	979.42	1046.88	1117.18	1159.27
<b>40</b>	530.04	555.33	617.59	713.86	799.86	891.26	969.59	1024.63	1084.21	1116.36
<b>45</b>	521.02	535.89	617.00	703.21	788.74	880.02	953.74	987.02	1055.68	1075.63
<b>50</b>	492.25	510.70	584.34	669.72	754.48	833.08	902.65	937.61	996.61	1051.64
<b>55</b>	448.20	478.40	540.83	624.15	700.24	789.48	826.75	896.17	963.19	1049.22
<b>60</b>	404.61	425.73	494.01	548.82	629.58	710.01	774.36	876.96	963.22	1086.31
<b>65</b>	346.29	364.47	408.33	468.21	550.73	641.44	745.19	854.23	973.37	1091.49
<b>70</b>	273.71	289.01	330.48	396.01	468.08	572.99	688.39	831.65	950.30	1077.96
<b>75</b>	206.86	215.40	257.42	304.28	395.16	508.83	637.77	779.14	896.08	1000.75
<b>80</b>	141.77	150.21	184.77	243.34	324.03	431.37	556.78	674.88	787.10	901.64
<b>85</b>	85.80	98.65	129.73	186.17	258.53	357.49	458.85	570.07	675.28	757.58
<b>90</b>	51.21	59.10	85.23	132.22	194.04	280.64	366.31	459.88	554.21	625.63
<b>95</b>	25.84	29.59	45.17	76.01	124.47	187.72	254.30	323.16	377.00	442.78
<b>100</b>	16.45	17.46	21.06	37.83	68.01	101.92	146.90	190.32	219.75	252.33
<b>105</b>	9.67	8.80	11.52	15.69	28.98	48.96	67.36	93.12	112.37	136.37
<b>110</b>	5.22	6.24	5.81	6.61	11.83	20.72	33.67	49.38	58.28	73.26
<b>115</b>	4.82	3.52	4.35	4.13	5.48	8.16	14.35	21.04	26.23	36.17
<b>120</b>	2.45	2.54	2.49	2.72	2.90	3.04	4.62	9.31	11.59	18.25
<b>125</b>	2.54	2.55	1.67	1.45	1.81	1.29	1.92	3.09	5.92	9.41
<b>130</b>	0.89	1.23	0.84	0.73	0.32	0.48	0.77	0.87	1.60	3.05
<b>135</b>	0.62	0.33	0.42	0.07	0.33	0.23	0.44	0.49	0.61	0.83
<b>140</b>	0.01	0.02	0.26	0.00	0.17	0.00	0.00	0.07	0.40	0.19
<b>145</b>	0.39	0.09	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.01	0.00	0.05	0.00	0.00	0.01	0.05	0.13
<b>155</b>	0.20	0.03	0.00	0.10	0.00	0.00	0.11	0.02	0.20	0.00
<b>160</b>	0.00	0.00	0.00	0.01	0.13	0.03	0.00	0.11	0.00	0.00
<b>165</b>	0.00	0.00	0.04	0.00	0.00	0.03	0.00	0.01	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.17	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	0.40	0.00	0.00	0.03	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**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	522.60	522.60	522.60	522.60	522.60	522.60	522.60	522.60	522.60
<b>5</b>	595.16	544.37	602.21	604.34	588.92	598.33	587.21	586.22	641.92
<b>10</b>	658.18	703.66	726.47	705.96	743.67	737.01	748.64	761.56	753.22
<b>15</b>	825.50	872.19	912.07	960.97	985.94	962.64	996.77	1012.42	1027.33
<b>20</b>	996.90	1037.13	1103.20	1152.91	1156.07	1179.15	1195.20	1209.51	1205.40
<b>25</b>	1129.53	1195.80	1218.58	1251.72	1266.37	1281.21	1290.11	1300.17	1290.61
<b>30</b>	1190.86	1199.19	1238.73	1269.57	1294.15	1296.14	1308.10	1312.21	1370.14
<b>35</b>	1178.26	1206.15	1225.76	1248.04	1253.47	1286.46	1271.60	1315.86	1311.01
<b>40</b>	1138.54	1180.13	1192.25	1197.94	1232.94	1286.37	1311.05	1301.14	1283.78
<b>45</b>	1100.64	1143.25	1177.41	1212.09	1271.38	1303.36	1348.41	1354.16	1358.59
<b>50</b>	1087.30	1166.76	1211.52	1280.02	1349.91	1403.29	1438.13	1488.73	1516.38
<b>55</b>	1116.18	1214.41	1299.74	1381.22	1471.33	1520.76	1567.52	1631.65	1646.19
<b>60</b>	1187.84	1296.54	1388.65	1472.57	1550.81	1617.21	1673.67	1686.99	1727.36

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	1201.33	1297.90	1407.19	1495.23	1577.60	1618.69	1669.09	1689.03	1683.09
<b>70</b>	1190.45	1272.47	1334.38	1417.60	1465.85	1514.40	1555.08	1595.91	1600.37
<b>75</b>	1071.50	1155.50	1224.69	1284.12	1336.00	1383.14	1425.21	1447.57	1460.37
<b>80</b>	956.01	1029.31	1089.42	1161.28	1196.65	1249.17	1293.10	1315.05	1326.95
<b>85</b>	838.15	900.88	963.34	1010.77	1071.92	1110.79	1159.42	1189.90	1205.37
<b>90</b>	685.42	751.52	800.96	865.46	908.66	948.41	995.14	996.89	1017.54
<b>95</b>	477.54	542.55	566.92	617.88	643.64	683.75	700.69	731.38	737.85
<b>100</b>	278.55	313.83	333.66	358.30	378.98	397.16	413.84	421.78	422.49
<b>105</b>	146.87	169.21	185.63	196.90	206.35	220.90	228.04	235.94	236.78
<b>110</b>	85.30	90.34	98.27	115.79	121.47	122.50	130.56	136.93	132.62
<b>115</b>	45.19	53.50	60.52	64.38	72.92	74.22	79.01	83.43	74.59
<b>120</b>	25.56	26.38	32.33	34.12	37.53	41.56	45.84	46.45	49.21
<b>125</b>	12.90	14.46	17.19	20.71	21.83	22.81	25.69	25.03	24.06
<b>130</b>	4.67	5.88	8.10	9.95	10.95	13.69	13.06	15.51	15.38
<b>135</b>	1.76	2.76	4.59	5.22	6.22	7.06	7.74	7.38	7.88
<b>140</b>	0.54	1.27	1.01	1.77	2.53	2.28	2.84	3.64	3.36
<b>145</b>	0.31	0.11	0.77	0.72	0.74	0.53	0.57	0.78	0.35
<b>150</b>	0.06	0.08	0.23	0.29	0.31	0.22	0.09	0.36	0.28
<b>155</b>	0.12	0.09	0.00	0.12	0.00	0.10	0.11	0.12	0.00
<b>160</b>	0.00	0.00	0.00	0.11	0.00	0.00	0.07	0.16	0.21
<b>165</b>	0.25	0.00	0.00	0.16	0.00	0.14	0.00	0.03	0.00
<b>170</b>	0.00	0.00	0.44	0.04	0.22	0.00	0.13	0.00	0.00
<b>175</b>	0.00	0.00	0.02	0.00	0.00	0.03	0.64	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	280.75	N.A.	4.30
0-30	738.99	N.A.	11.30
0-40	1391.56	N.A.	21.40
0-60	3140.25	N.A.	48.20
0-80	5127.1	N.A.	78.70
0-90	5873.78	N.A.	90.20
10-90	5817.53	N.A.	89.30
20-40	1110.81	N.A.	17.10
20-50	1907.76	N.A.	29.30
40-70	2788.77	N.A.	42.80
60-80	1986.85	N.A.	30.50
70-80	946.78	N.A.	14.50
80-90	746.67	N.A.	11.50
90-110	582.87	N.A.	9.00
90-120	624.49	N.A.	9.60
90-130	635.55	N.A.	9.80
90-150	638.23	N.A.	9.80
90-180	638.28	N.A.	9.80
110-180	55.41	N.A.	0.90
0-180	6512.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.25
10-20	224.50
20-30	458.24
30-40	652.57
40-50	796.95
50-60	951.75
60-70	1040.07
70-80	946.78
80-90	746.67
90-100	437.20
100-110	145.67
110-120	41.62
120-130	11.06
130-140	2.40
140-150	0.28
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	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**

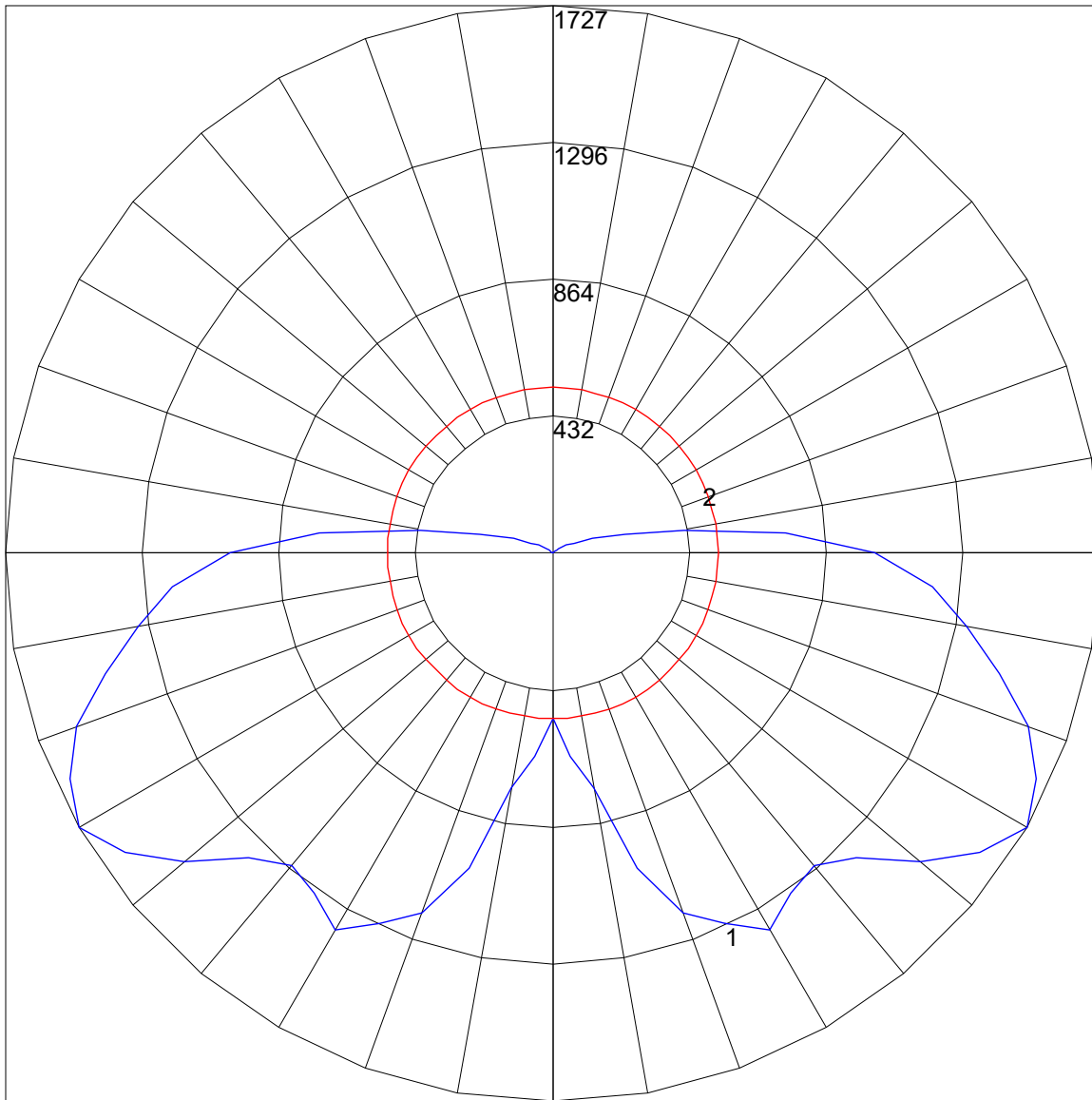
Reflectances

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	16.4	18.0	16.9	18.5	19.1	22.5	24.1	23.0	24.6	25.2
	3H	17.8	19.4	18.3	19.9	20.5	26.0	27.5	26.5	28.0	28.6
	4H	18.4	19.8	18.9	20.4	21.0	27.5	29.0	28.0	29.5	30.1
	6H	18.7	20.1	19.3	20.7	21.3	29.1	30.4	29.6	31.0	31.6
	8H	18.9	20.2	19.4	20.8	21.4	29.8	31.1	30.4	31.7	32.3
	12H	19.0	20.3	19.6	20.9	21.5	30.6	31.9	31.1	32.4	33.1
4H	2H	18.5	20.0	19.1	20.6	21.2	22.8	24.3	23.3	24.8	25.4
	3H	20.4	21.7	21.0	22.3	22.9	26.6	27.8	27.1	28.4	29.0
	4H	21.1	22.3	21.7	22.9	23.5	28.3	29.5	28.9	30.1	30.7
	6H	21.5	22.6	22.1	23.2	23.9	30.0	31.1	30.6	31.7	32.4
	8H	21.7	22.7	22.3	23.3	24.0	30.9	31.9	31.5	32.5	33.2
	12H	21.8	22.8	22.5	23.4	24.1	31.8	32.8	32.5	33.4	34.1
8H	4H	22.8	23.9	23.4	24.5	25.1	28.5	29.5	29.1	30.1	30.8
	6H	23.7	24.6	24.3	25.2	25.9	30.4	31.3	31.1	32.0	32.6
	8H	24.0	24.8	24.6	25.4	26.1	31.4	32.3	32.1	32.9	33.6
	12H	24.2	24.9	24.8	25.5	26.3	32.6	33.3	33.2	33.9	34.7
12H	4H	23.3	24.2	23.9	24.8	25.5	28.5	29.5	29.1	30.1	30.8
	6H	24.3	25.1	25.0	25.8	26.5	30.5	31.3	31.1	31.9	32.6
	8H	24.8	25.5	25.4	26.1	26.9	31.6	32.3	32.2	32.9	33.7

Maximum UGR = 34.7

POLAR GRAPH



Maximum Candela = 1727.36 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)