



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPLUS2SALOWT40120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.0.4 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Fri Jun 30 09:02:46 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LEDPLUS2SAWT40120-277V-FL

[LAMP] LED 0.428W White 3030 package (150mA)

[LAMPCAT] SPMWHT328FD5WAV0S0

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 96

[OTHER] Lumens per lamp: 65.1

[OTHER] Input watts: 50

[OTHER] Distribution: Direct

[OTHER] Symmetry: Quadrilateral

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 2.3

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.3

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPLUS2SALOWT40120-277V\_P.IES**

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5423	4275	4281
55	4518	3565	3621
65	3359	2762	2875
75	2183	1852	1933
85	1327	961	986

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPLUS2SALOWT40120-277V\_P.IES**

**CANDELA TABULATION**

	<b>0</b>	<b>15</b>	<b>30</b>	<b>45</b>	<b>60</b>	<b>75</b>	<b>90</b>
<b>0.0</b>	826.628	826.628	826.628	826.628	826.628	826.628	826.628
<b>2.5</b>	818.344	826.140	823.488	823.560	824.392	821.056	826.272
<b>5.0</b>	818.648	820.472	817.412	821.708	819.396	818.180	826.028
<b>7.5</b>	816.644	813.648	812.588	819.004	811.056	813.644	816.824
<b>10.0</b>	803.228	802.996	806.280	804.852	811.916	806.284	805.512
<b>12.5</b>	793.180	795.240	796.708	798.116	801.528	797.868	796.636
<b>15.0</b>	785.424	782.936	782.656	785.768	783.700	783.860	783.612
<b>17.5</b>	769.052	770.556	770.904	772.036	771.064	771.916	771.740
<b>20.0</b>	754.240	750.860	755.000	758.992	757.748	760.744	761.088
<b>22.5</b>	735.432	737.604	736.076	739.444	744.676	745.556	747.100
<b>25.0</b>	718.368	719.224	718.660	719.752	726.668	731.072	733.452
<b>27.5</b>	694.676	698.532	699.916	701.080	707.800	714.556	716.120
<b>30.0</b>	677.316	677.400	678.108	684.436	691.768	695.072	706.864
<b>32.5</b>	650.864	655.044	657.008	664.444	669.448	675.296	680.096
<b>35.0</b>	632.848	630.124	632.500	638.824	645.596	655.708	657.644
<b>37.5</b>	602.820	604.196	608.140	614.612	620.536	633.252	638.872
<b>40.0</b>	577.476	575.508	581.188	587.896	595.984	607.380	616.152
<b>42.5</b>	545.940	546.764	552.188	560.704	571.576	581.008	584.564
<b>45.0</b>	513.920	517.448	523.652	534.036	542.400	552.948	559.336
<b>47.5</b>	479.328	484.388	492.456	504.024	514.588	525.160	533.480
<b>50.0</b>	442.212	447.172	460.760	474.228	486.412	492.892	503.768
<b>52.5</b>	404.276	413.320	427.872	444.700	457.324	463.860	471.376
<b>55.0</b>	365.356	374.940	395.268	412.924	425.164	432.144	443.384
<b>57.5</b>	327.544	338.448	361.004	381.948	393.936	401.552	410.988
<b>60.0</b>	289.324	300.436	327.284	350.032	362.608	371.200	378.320
<b>62.5</b>	251.044	264.584	293.288	317.148	331.520	341.052	350.552
<b>65.0</b>	216.760	229.192	259.748	284.960	300.456	310.208	317.764
<b>67.5</b>	183.036	196.104	226.404	253.700	269.196	278.128	286.356
<b>70.0</b>	152.172	166.232	195.544	222.228	237.852	245.260	252.196
<b>72.5</b>	125.352	137.780	165.000	192.128	207.292	212.640	219.424
<b>75.0</b>	100.904	113.084	138.148	161.936	174.680	179.244	184.080
<b>77.5</b>	79.892	90.880	112.716	133.068	144.412	147.160	150.900
<b>80.0</b>	62.524	72.248	89.956	108.132	116.796	119.324	122.316
<b>82.5</b>	47.952	55.964	70.352	84.512	92.524	95.144	97.060
<b>85.0</b>	35.188	42.416	54.244	66.320	72.980	75.524	75.976
<b>87.5</b>	26.468	31.816	41.256	51.556	56.808	58.324	59.204
<b>90.0</b>	17.804	23.188	31.664	39.748	43.972	45.316	45.204
<b>92.5</b>	12.048	16.728	23.860	30.256	33.860	34.980	35.024
<b>95.0</b>	8.740	12.496	18.444	23.424	26.412	27.084	27.092
<b>97.5</b>	6.684	9.708	14.320	18.304	20.656	21.404	21.420
<b>100.0</b>	5.644	7.652	11.408	14.648	16.520	17.240	17.532
<b>102.5</b>	4.720	6.396	9.264	11.592	13.532	14.220	14.548
<b>105.0</b>	4.208	5.288	7.512	9.408	10.856	12.144	12.440
<b>107.5</b>	3.664	4.504	6.264	7.548	9.088	10.084	10.472
<b>110.0</b>	3.368	3.896	5.216	6.148	7.368	8.548	8.828
<b>112.5</b>	2.924	3.280	4.200	4.956	6.104	7.020	7.360
<b>115.0</b>	2.532	3.004	3.412	3.904	4.936	5.708	6.156
<b>117.5</b>	2.260	2.512	2.580	3.056	3.948	4.780	4.968
<b>120.0</b>	1.948	2.108	2.100	2.448	3.076	3.752	4.176
<b>122.5</b>	1.620	1.700	1.592	1.800	2.388	2.980	3.156
<b>125.0</b>	1.280	1.384	1.220	1.252	1.828	2.300	2.488
<b>127.5</b>	1.044	1.124	0.916	0.968	1.344	1.844	1.996
<b>130.0</b>	0.896	0.788	0.636	0.600	0.936	1.220	1.480
<b>132.5</b>	0.644	0.596	0.460	0.388	0.676	0.948	1.060

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : BS100LEDPLUS2SALOWT40120-277V\_P.IES

CANDELA TABULATION - (Cont.)

135.0	0.504	0.452	0.296	0.224	0.420	0.672	0.812
137.5	0.328	0.316	0.208	0.140	0.216	0.356	0.556
140.0	0.220	0.196	0.100	0.068	0.116	0.232	0.324
142.5	0.088	0.080	0.056	0.032	0.064	0.112	0.164
145.0	0.044	0.048	0.048	0.036	0.052	0.092	0.104
147.5	0.040	0.060	0.052	0.052	0.044	0.056	0.060
150.0	0.060	0.064	0.088	0.088	0.076	0.040	0.048
152.5	0.100	0.148	0.128	0.100	0.108	0.060	0.060
155.0	0.140	0.156	0.128	0.180	0.140	0.120	0.112
157.5	0.196	0.176	0.200	0.200	0.180	0.128	0.160
160.0	0.228	0.224	0.260	0.232	0.232	0.200	0.180
162.5	0.212	0.244	0.252	0.236	0.200	0.224	0.192
165.0	0.156	0.228	0.304	0.228	0.224	0.268	0.188
167.5	0.264	0.272	0.284	0.288	0.268	0.276	0.264
170.0	0.240	0.228	0.292	0.276	0.224	0.200	0.180
172.5	0.384	0.208	0.244	0.268	0.260	0.380	0.324
175.0	0.228	0.256	0.200	0.376	0.392	0.284	0.268
177.5	0.284	0.352	0.240	0.268	0.352	0.292	0.356
180.0	0.244	0.244	0.244	0.244	0.244	0.244	0.244

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LEDPLUS2SALOWT40120-277V\_P.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	299.21	N.A.	12.70
0-30	632.72	N.A.	26.90
0-40	1033.81	N.A.	43.90
0-60	1809.95	N.A.	76.90
0-80	2244.29	N.A.	95.30
0-90	2313.66	N.A.	98.30
10-90	2235.82	N.A.	95.00
20-40	734.61	N.A.	31.20
20-50	1146.44	N.A.	48.70
40-70	1048.94	N.A.	44.60
60-80	434.34	N.A.	18.40
70-80	161.53	N.A.	6.90
80-90	69.37	N.A.	2.90
90-110	34.10	N.A.	1.40
90-120	38.40	N.A.	1.60
90-130	39.96	N.A.	1.70
90-150	40.39	N.A.	1.70
90-180	40.54	N.A.	1.70
110-180	6.45	N.A.	0.30
0-180	2354.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	77.85
10-20	221.36
20-30	333.52
30-40	401.09
40-50	411.83
50-60	364.30
60-70	272.80
70-80	161.53
80-90	69.37
90-100	24.33
100-110	9.76
110-120	4.30
120-130	1.56
130-140	0.38
140-150	0.05
150-160	0.06
160-170	0.07
170-180	0.03

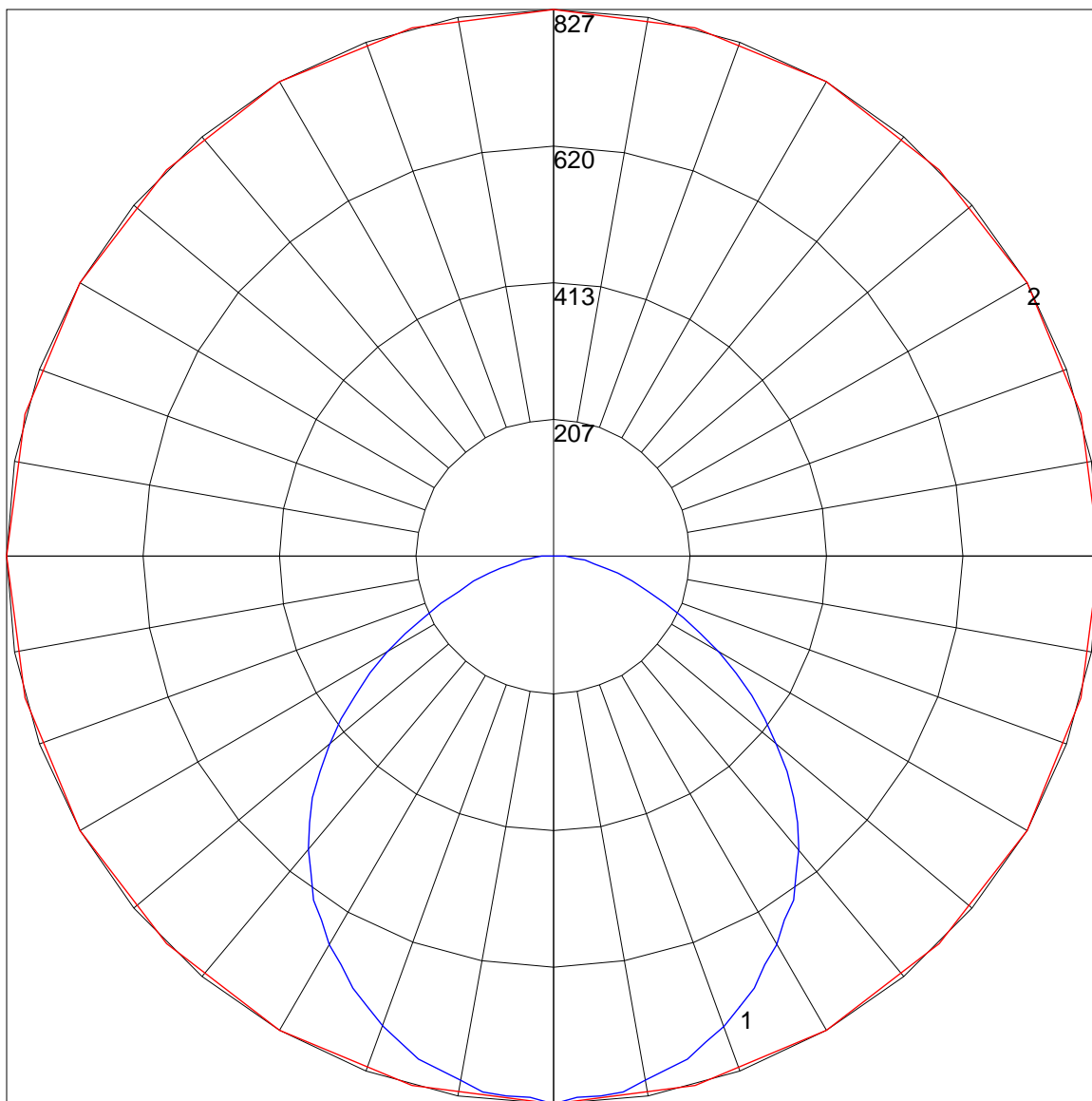
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : BS100LEDPLUS2SALOWT40120-277V\_P.IES

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 826.628 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)