



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDPLUSHTLOWT40120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2018.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUE DATE]

[TEST DATE] Thu Oct 18 10:03:08 2018

[TEST] 1

[MANUFACTURER] BEGHELLI

[LUMEN CATEGORY]

[LUMINAIRE] BS400LEDPLUSHTLOWT40120-277V

[LAMP] LED 0.3W White 2323 package (65mA)

[LAMP CATEGORY] SPMWHT221MD5WAT0S0

[OTHER]

IESNA:LM-63-2002

[TEST] 6,552

[TESTLAB] CSA Group

[ISSUE DATE] 7/24/2013 1:09:24 PM

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

### CHARACTERISTICS

Lumens Per Lamp	47.78 (256 lamps)
Total Lamp Lumens	12231.68
Luminaire Lumens	10659
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.45 ft
Luminous Width (90-270)	1.45 ft
Luminous Height	0.28 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16683	15646	16683
55	12454	11441	12454
65	8079	7213	8079
75	4976	4245	4976
85	3203	2495	3203

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CANDELA TABULATION

	<u>0</u>
0.0	3594.40
2.5	3584.84
5.0	3591.03
7.5	3581.96
10.0	3596.65
12.5	3594.17
15.0	3598.75
17.5	3600.75
20.0	3603.24
22.5	3609.95
25.0	3617.07
27.5	3615.09
30.0	3587.80
32.5	3538.48
35.0	3457.75
37.5	3329.34
40.0	3168.37
42.5	2980.12
45.0	2759.66
47.5	2522.94
50.0	2275.87
52.5	2025.95
55.0	1785.55
57.5	1551.23
60.0	1332.28
62.5	1127.90
65.0	944.97
67.5	788.52
70.0	650.20
72.5	532.72
75.0	432.92
77.5	348.46
80.0	277.55
82.5	220.79
85.0	174.29
87.5	131.24
90.0	99.55
92.5	81.92
95.0	69.19
97.5	59.17
100.0	51.03
102.5	44.75
105.0	38.27
107.5	32.86
110.0	27.68
112.5	23.40
115.0	19.11
117.5	15.57
120.0	12.28
122.5	9.54
125.0	7.06
127.5	5.00
130.0	3.43
132.5	2.22

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	1.41
<b>137.5</b>	0.90
<b>140.0</b>	0.72
<b>142.5</b>	0.56
<b>145.0</b>	0.47
<b>147.5</b>	0.30
<b>150.0</b>	0.26
<b>152.5</b>	0.17
<b>155.0</b>	0.16
<b>157.5</b>	0.12
<b>160.0</b>	0.09
<b>162.5</b>	0.08
<b>165.0</b>	0.04
<b>167.5</b>	0.02
<b>170.0</b>	0.01
<b>172.5</b>	0.01
<b>175.0</b>	0.02
<b>177.5</b>	0.01
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1362.67	11.10	12.80
0-30	3033.27	24.80	28.50
0-40	5180.31	42.40	48.60
0-60	8896.92	72.70	83.50
0-80	10317.45	84.40	96.80
0-90	10512.21	85.90	98.60
10-90	10169.69	83.10	95.40
20-40	3817.64	31.20	35.80
20-50	5934.91	48.50	55.70
40-70	4668.34	38.20	43.80
60-80	1420.53	11.60	13.30
70-80	468.79	3.80	4.40
80-90	194.76	1.60	1.80
90-110	119.10	1.00	1.10
90-120	138.57	1.10	1.30
90-130	145.25	1.20	1.40
90-150	146.85	1.20	1.40
90-180	146.94	1.20	1.40
110-180	27.84	0.20	0.30
0-180	10659.15	87.10	100.00

Total Luminaire Efficiency = 87.10%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	342.51
10-20	1020.16
20-30	1670.6
30-40	2147.04
40-50	2117.27
50-60	1599.33
60-70	951.74
70-80	468.79
80-90	194.76
90-100	77.95
100-110	41.15
110-120	19.47
120-130	6.68
130-140	1.31
140-150	0.29
150-160	0.07
160-170	0.01
170-180	0.00

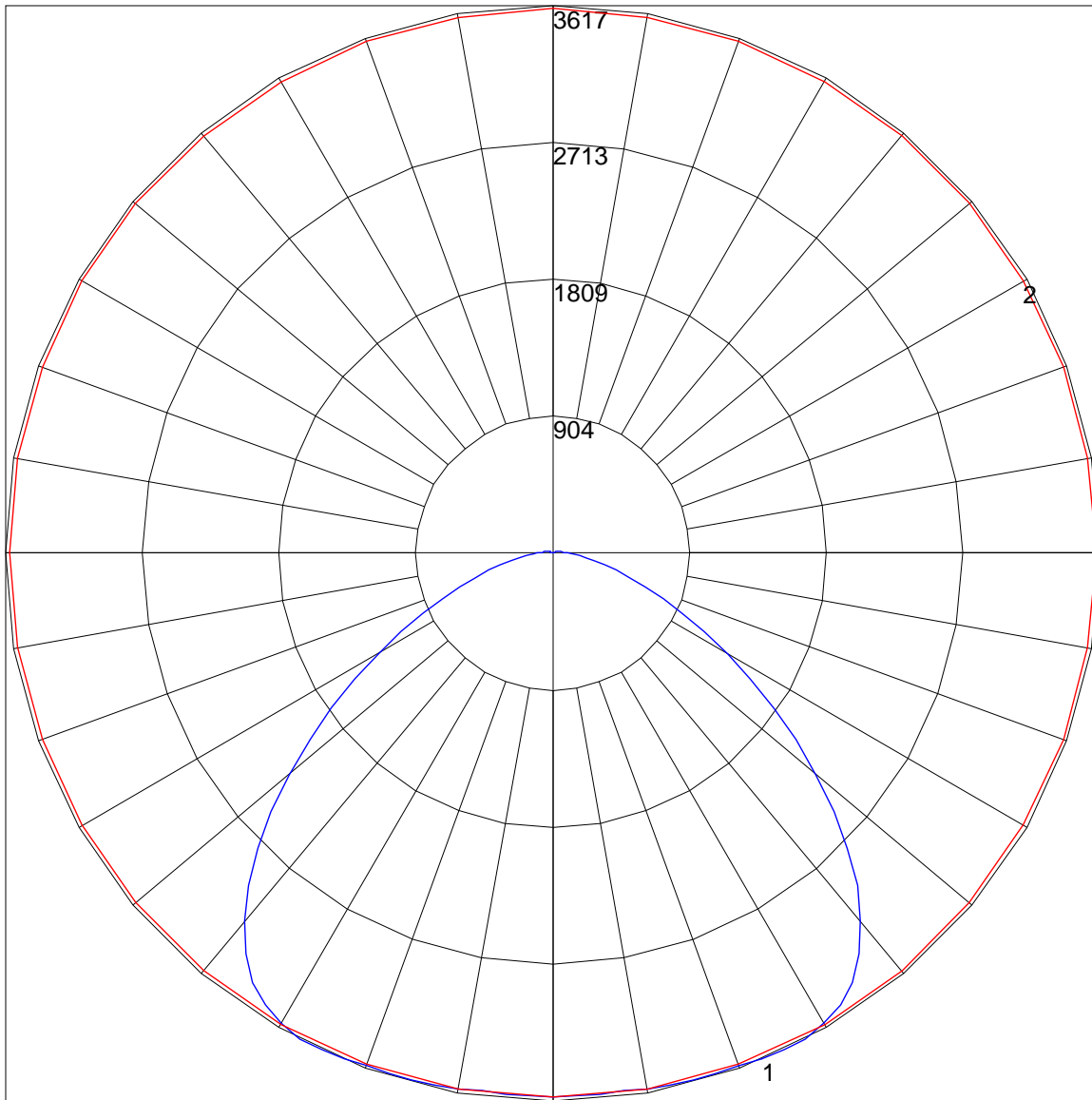
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	101	101	101	101	96	96	96	92	92	92	88	88	88	86
1	95	91	88	85	93	89	86	83	85	83	80	82	80	78	78	77	75	73
2	87	80	75	70	85	79	73	69	75	71	67	72	69	66	70	67	64	62
3	80	71	64	59	78	70	63	58	67	61	57	64	60	56	62	58	55	53
4	73	63	56	50	71	62	55	50	60	54	49	58	52	48	56	51	47	46
5	67	57	49	43	66	56	48	43	54	47	43	52	46	42	50	45	41	40
6	62	51	43	38	61	50	43	38	48	42	37	47	41	37	45	40	37	35
7	58	46	39	34	56	46	38	33	44	38	33	43	37	33	41	36	32	31
8	54	42	35	30	52	42	35	30	40	34	30	39	33	29	38	33	29	27
9	50	39	32	27	49	38	31	27	37	31	27	36	30	26	35	30	26	25
10	47	36	29	24	46	35	29	24	34	28	24	33	28	24	32	27	24	22

POLAR GRAPH



Maximum Candela = 3617.07 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)