



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDPLUSHTLOWT30120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Thu Oct 18 09:36:09 2018

[TEST] 1

[MANUFACTURER] BEGHELLI

[LUMEN CATEGORY]

[LUMINAIRE] BS400LEDPLUSHTLOWT30120-277

[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	45.32 (256 lamps)
Total Lamp Lumens	11601.92
Luminaire Lumens	10110
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	126
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)	1.46
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	15837	14853	15837
55	11816	10855	11816
65	7686	6862	7686
75	4718	4026	4718
85	3039	2367	3039

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CANDELA TABULATION

	<u>0</u>
0.0	3443.21
2.5	3411.33
5.0	3401.13
7.5	3399.35
10.0	3401.22
12.5	3411.04
15.0	3403.79
17.5	3410.51
20.0	3413.63
22.5	3420.73
25.0	3430.83
27.5	3427.64
30.0	3407.67
32.5	3353.59
35.0	3277.36
37.5	3159.37
40.0	3005.35
42.5	2825.70
45.0	2619.76
47.5	2392.27
50.0	2158.35
52.5	1921.52
55.0	1694.08
57.5	1473.96
60.0	1262.87
62.5	1071.15
65.0	899.06
67.5	748.60
70.0	616.12
72.5	506.24
75.0	410.55
77.5	330.03
80.0	264.15
82.5	210.41
85.0	165.33
87.5	124.18
90.0	93.72
92.5	77.52
95.0	66.05
97.5	55.89
100.0	48.52
102.5	42.12
105.0	36.31
107.5	31.07
110.0	26.13
112.5	22.11
115.0	18.28
117.5	14.71
120.0	11.61
122.5	8.91
125.0	6.64
127.5	4.75
130.0	3.24
132.5	2.15

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CANDELA TABULATION - (Cont.)

135.0	1.36
137.5	0.88
140.0	0.68
142.5	0.52
145.0	0.45
147.5	0.32
150.0	0.24
152.5	0.17
155.0	0.13
157.5	0.09
160.0	0.08
162.5	0.05
165.0	0.02
167.5	0.02
170.0	0.01
172.5	0.02
175.0	0.01
177.5	0.02
180.0	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1291.05	11.10	12.80
0-30	2875.22	24.80	28.40
0-40	4911.52	42.30	48.60
0-60	8437.38	72.70	83.50
0-80	9785.91	84.30	96.80
0-90	9970.85	85.90	98.60
10-90	9646.01	83.10	95.40
20-40	3620.47	31.20	35.80
20-50	5628.79	48.50	55.70
40-70	4429.59	38.20	43.80
60-80	1348.53	11.60	13.30
70-80	444.79	3.80	4.40
80-90	184.94	1.60	1.80
90-110	112.78	1.00	1.10
90-120	131.23	1.10	1.30
90-130	137.52	1.20	1.40
90-150	139.05	1.20	1.40
90-180	139.13	1.20	1.40
110-180	26.35	0.20	0.30
0-180	10109.98	87.10	100.00

Total Luminaire Efficiency = 87.10%

ZONAL LUMEN SUMMARY

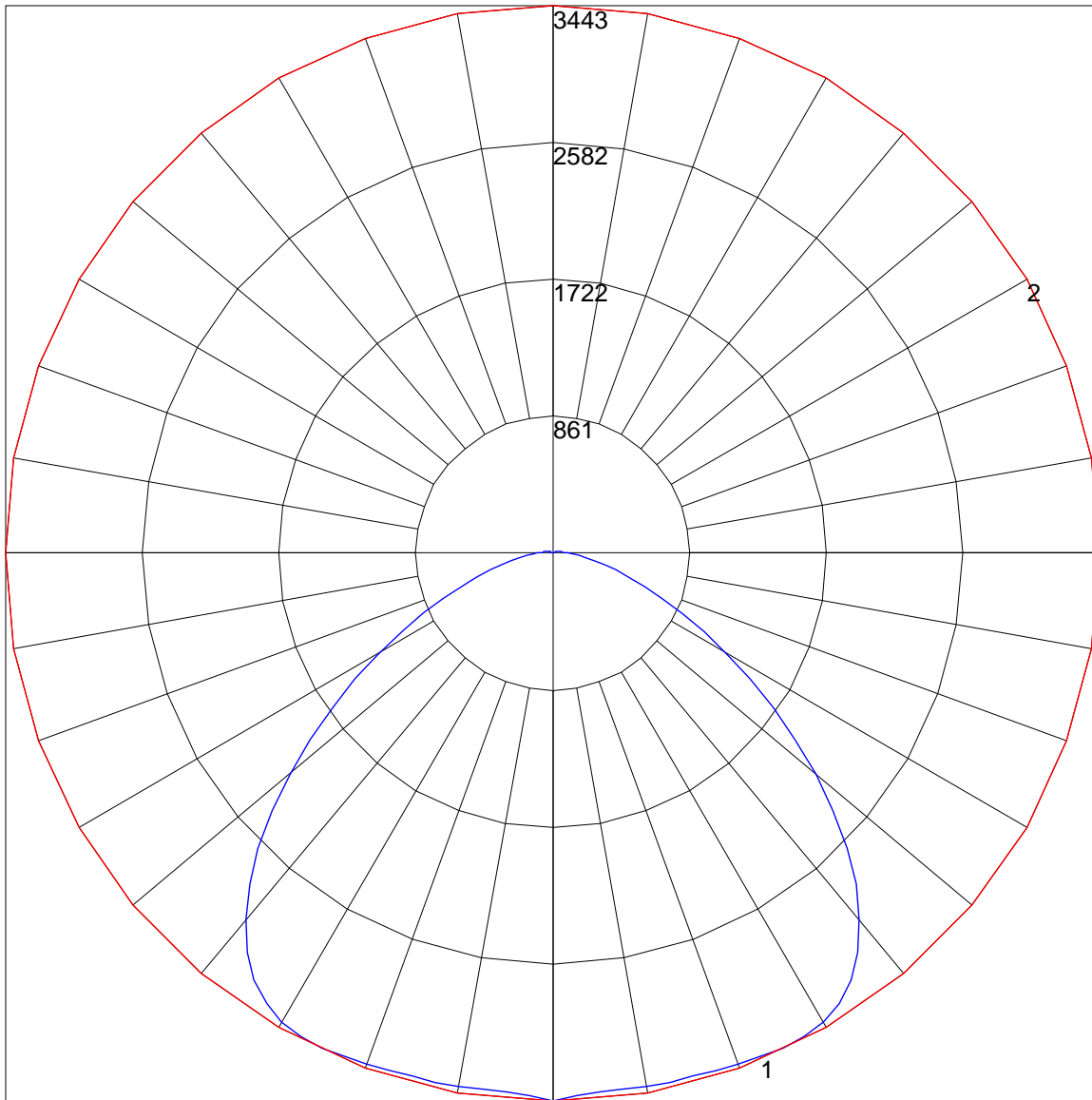
Zone	Lumens
0-10	324.84
10-20	966.21
20-30	1584.17
30-40	2036.3
40-50	2008.32
50-60	1517.53
60-70	903.73
70-80	444.79
80-90	184.94
90-100	73.86
100-110	38.92
110-120	18.45
120-130	6.29
130-140	1.26
140-150	0.28
150-160	0.07
160-170	0.01
170-180	0.00

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	77	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	45	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 = 3443.21 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)