



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDPLUSHTMOWT30120-277V\_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)

[ISSUEDATE]

[TESTDATE] Thu Oct 18 12:42:59 2018

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDPLUSHTMOWT30120-277V

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

[LAMPCAT] SPMWHT221MD5WAT0S0

[OTHER]

IESNA:LM-63-2002[TEST] 6,552

[TESTLAB] CSA Group

[ISSUEDATE] 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	54.8 (256 lamps)
Total Lamp Lumens	14028.8
Luminaire Lumens	12225
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.48
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	19130	17941	19130
55	14287	13124	14287
65	9294	8298	9294
75	5699	4863	5699
85	3666	2855	3666

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CANDELA TABULATION

	<u>0</u>
0.0	4096.31
2.5	4119.07
5.0	4108.55
7.5	4109.89
10.0	4117.71
12.5	4121.11
15.0	4124.90
17.5	4126.00
20.0	4134.09
22.5	4140.05
25.0	4150.50
27.5	4141.97
30.0	4115.94
32.5	4059.11
35.0	3965.38
37.5	3820.37
40.0	3636.16
42.5	3414.69
45.0	3164.43
47.5	2893.90
50.0	2609.10
52.5	2326.70
55.0	2048.33
57.5	1778.41
60.0	1527.28
62.5	1294.96
65.0	1087.14
67.5	903.36
70.0	746.59
72.5	610.47
75.0	495.91
77.5	399.27
80.0	318.63
82.5	253.21
85.0	199.44
87.5	150.59
90.0	113.82
92.5	93.84
95.0	79.26
97.5	68.30
100.0	58.68
102.5	50.77
105.0	43.86
107.5	37.38
110.0	31.78
112.5	26.66
115.0	21.97
117.5	17.50
120.0	14.17
122.5	10.71
125.0	8.13
127.5	5.82
130.0	3.97
132.5	2.64

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	1.62
<b>137.5</b>	1.04
<b>140.0</b>	0.84
<b>142.5</b>	0.67
<b>145.0</b>	0.49
<b>147.5</b>	0.41
<b>150.0</b>	0.31
<b>152.5</b>	0.22
<b>155.0</b>	0.14
<b>157.5</b>	0.12
<b>160.0</b>	0.09
<b>162.5</b>	0.06
<b>165.0</b>	0.05
<b>167.5</b>	0.02
<b>170.0</b>	0.02
<b>172.5</b>	0.02
<b>175.0</b>	0.01
<b>177.5</b>	0.00
<b>180.0</b>	0.06

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1561.86	11.10	12.80
0-30	3477.71	24.80	28.40
0-40	5940.83	42.30	48.60
0-60	10203.29	72.70	83.50
0-80	11833.2	84.30	96.80
0-90	12056.45	85.90	98.60
10-90	11663.94	83.10	95.40
20-40	4378.97	31.20	35.80
20-50	6806.72	48.50	55.70
40-70	5354.95	38.20	43.80
60-80	1629.91	11.60	13.30
70-80	537.42	3.80	4.40
80-90	223.25	1.60	1.80
90-110	136.42	1.00	1.10
90-120	158.64	1.10	1.30
90-130	166.29	1.20	1.40
90-150	168.16	1.20	1.40
90-180	168.26	1.20	1.40
110-180	31.84	0.20	0.30
0-180	12224.71	87.10	100.00

Total Luminaire Efficiency = 87.10%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	392.51
10-20	1169.35
20-30	1915.85
30-40	2463.12
40-50	2427.76
50-60	1834.71
60-70	1092.49
70-80	537.42
80-90	223.25
90-100	89.44
100-110	46.98
110-120	22.22
120-130	7.65
130-140	1.52
140-150	0.34
150-160	0.08
160-170	0.01
170-180	0.00

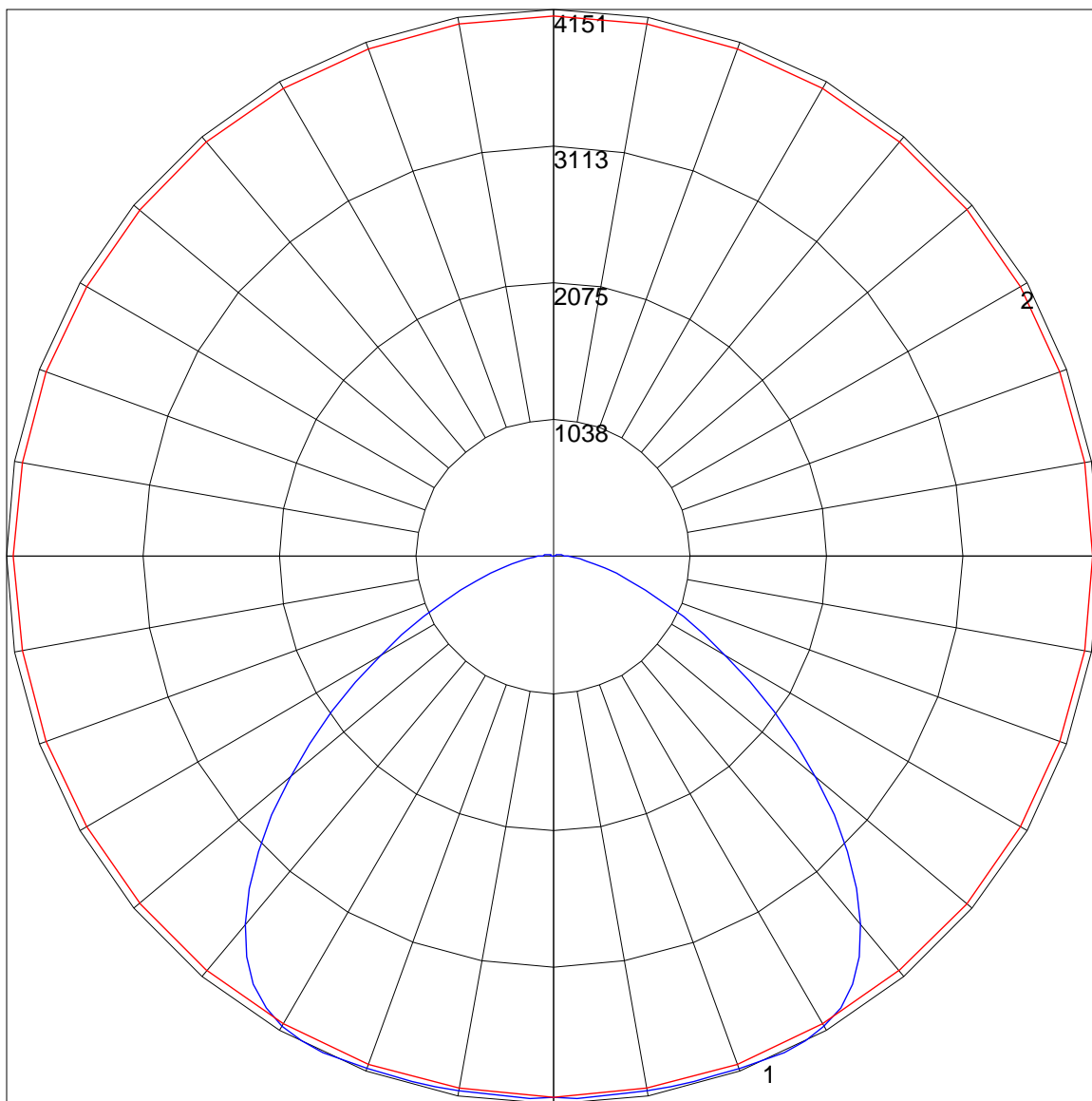
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4150.5 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)