



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDPLUSHTMOWT50120-277V\_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 14:32:47 2018  
 [TEST] 1  
 [MANUFAC]  
 [LUMCAT]  
 [LUMINAIRE] BS400LEDPLUSHTMOWT50120-277V  
 [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	58.62 (256 lamps)
Total Lamp Lumens	15006.72
Luminaire Lumens	13077
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	100
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	20470	19198	20470
55	15281	14037	15281
65	9934	8868	9934
75	6108	5211	6108
85	3953	3079	3953

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CANDELA TABULATION

	<u>0</u>
0.0	4398.75
2.5	4404.71
5.0	4400.09
7.5	4398.35
10.0	4398.85
12.5	4409.36
15.0	4413.12
17.5	4413.71
20.0	4415.53
22.5	4429.10
25.0	4438.10
27.5	4431.87
30.0	4407.94
32.5	4337.71
35.0	4234.55
37.5	4084.17
40.0	3891.16
42.5	3655.60
45.0	3386.21
47.5	3092.16
50.0	2790.99
52.5	2488.60
55.0	2190.82
57.5	1904.96
60.0	1635.04
62.5	1385.07
65.0	1161.91
67.5	966.01
70.0	798.03
72.5	653.47
75.0	531.43
77.5	427.29
80.0	341.26
82.5	271.71
85.0	215.07
87.5	161.10
90.0	121.87
92.5	100.43
95.0	84.62
97.5	72.55
100.0	62.69
102.5	54.95
105.0	47.27
107.5	40.50
110.0	34.14
112.5	28.42
115.0	23.53
117.5	19.08
120.0	15.08
122.5	11.69
125.0	8.61
127.5	6.27
130.0	4.30
132.5	2.71

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	1.65
<b>137.5</b>	1.14
<b>140.0</b>	0.92
<b>142.5</b>	0.71
<b>145.0</b>	0.54
<b>147.5</b>	0.42
<b>150.0</b>	0.33
<b>152.5</b>	0.24
<b>155.0</b>	0.18
<b>157.5</b>	0.13
<b>160.0</b>	0.10
<b>162.5</b>	0.07
<b>165.0</b>	0.05
<b>167.5</b>	0.04
<b>170.0</b>	0.02
<b>172.5</b>	0.03
<b>175.0</b>	0.01
<b>177.5</b>	0.03
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1670.5	11.10	12.80
0-30	3719.9	24.80	28.40
0-40	6353.01	42.30	48.60
0-60	10913.42	72.70	83.50
0-80	12657.05	84.30	96.80
0-90	12896.64	85.90	98.60
10-90	12476.66	83.10	95.40
20-40	4682.51	31.20	35.80
20-50	7279.7	48.50	55.70
40-70	5728.76	38.20	43.80
60-80	1743.63	11.60	13.30
70-80	575.28	3.80	4.40
80-90	239.59	1.60	1.80
90-110	146.17	1.00	1.10
90-120	170.02	1.10	1.30
90-130	178.25	1.20	1.40
90-150	180.22	1.20	1.40
90-180	180.33	1.20	1.40
110-180	34.16	0.20	0.30
0-180	13076.97	87.10	100.00

Total Luminaire Efficiency = 87.10%

**ZONAL LUMEN SUMMARY**

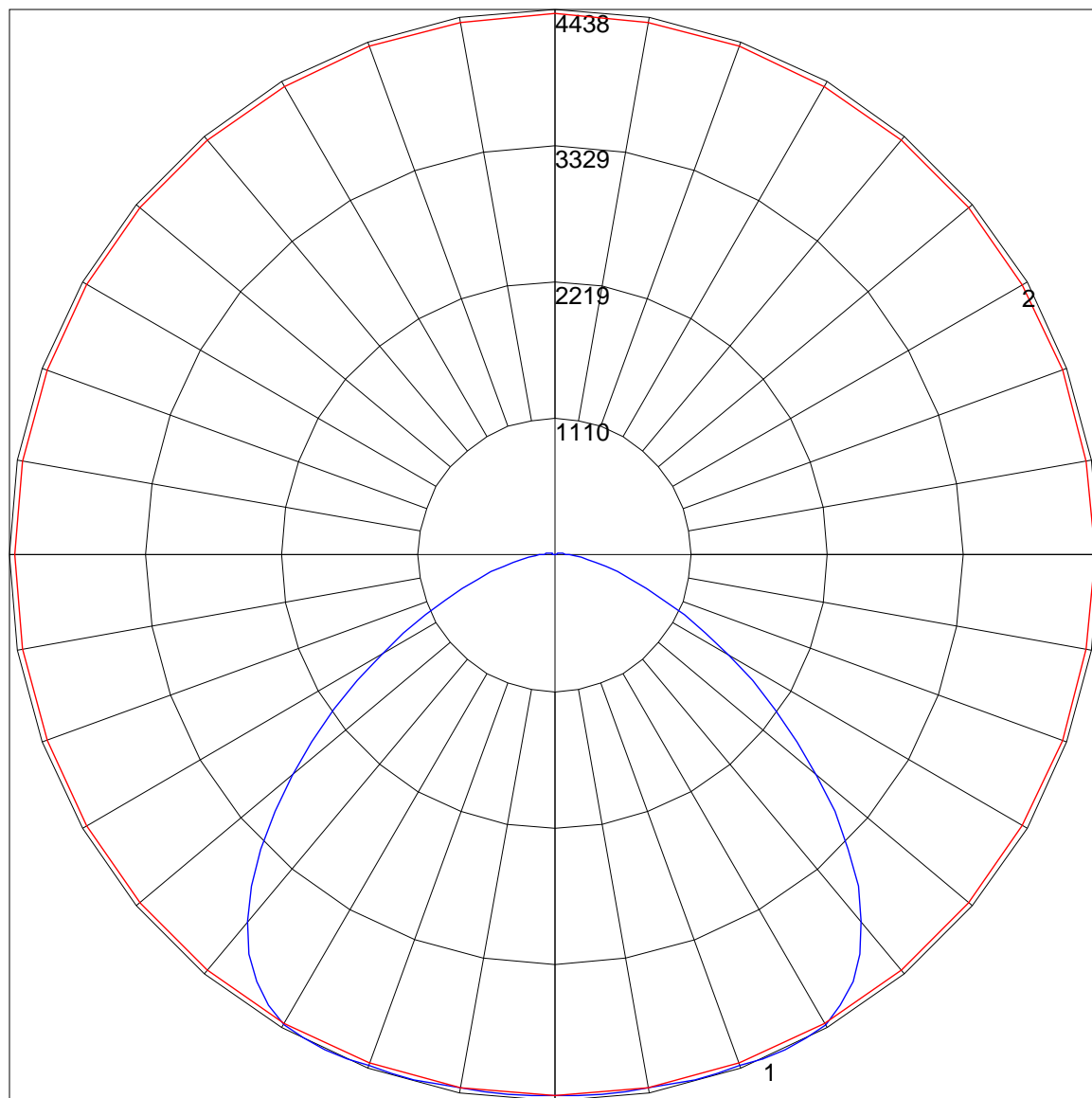
Zone	Lumens
0-10	419.98
10-20	1250.52
20-30	2049.4
30-40	2633.11
40-50	2597.19
50-60	1963.22
60-70	1168.35
70-80	575.28
80-90	239.59
90-100	95.51
100-110	50.66
110-120	23.85
120-130	8.23
130-140	1.60
140-150	0.37
150-160	0.09
160-170	0.02
170-180	0.00

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 = 4438.1 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)