



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDPLUSEMWT40120-277V\_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 14:41:53 2018  
 [TEST] 1  
 [MANUFAC]  
 [LUMCAT]  
 [LUMINAIRE] BS400LEDPLUSEMWT40120-277V  
 [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	9.82 (256 lamps)
Total Lamp Lumens	2513.92
Luminaire Lumens	2190
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.44
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	3429	3216	3429
55	2562	2354	2562
65	1645	1469	1645
75	1020	871	1020
85	659	513	659

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CANDELA TABULATION

	<u>0</u>
0.0	752.84
2.5	739.26
5.0	739.57
7.5	734.17
10.0	744.86
12.5	739.52
15.0	737.14
17.5	741.65
20.0	743.14
22.5	741.37
25.0	740.84
27.5	746.89
30.0	732.09
32.5	722.41
35.0	710.61
37.5	685.43
40.0	653.02
42.5	612.98
45.0	567.21
47.5	521.31
50.0	468.32
52.5	417.24
55.0	367.35
57.5	319.17
60.0	274.62
62.5	230.99
65.0	192.42
67.5	161.04
70.0	131.73
72.5	109.45
75.0	88.79
77.5	70.94
80.0	56.35
82.5	45.97
85.0	35.86
87.5	26.61
90.0	20.60
92.5	17.05
95.0	14.37
97.5	12.07
100.0	10.47
102.5	9.08
105.0	8.03
107.5	6.85
110.0	5.83
112.5	4.66
115.0	4.18
117.5	3.17
120.0	2.56
122.5	1.91
125.0	1.30
127.5	1.11
130.0	0.79
132.5	0.46

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.26
<b>137.5</b>	0.19
<b>140.0</b>	0.22
<b>142.5</b>	0.14
<b>145.0</b>	0.08
<b>147.5</b>	0.05
<b>150.0</b>	0.07
<b>152.5</b>	0.05
<b>155.0</b>	0.04
<b>157.5</b>	0.04
<b>160.0</b>	0.02
<b>162.5</b>	0.00
<b>165.0</b>	0.00
<b>167.5</b>	0.01
<b>170.0</b>	0.00
<b>172.5</b>	0.00
<b>175.0</b>	0.00
<b>177.5</b>	0.00
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	280.49	11.20	12.80
0-30	623.75	24.80	28.50
0-40	1064.28	42.30	48.60
0-60	1829.53	72.80	83.50
0-80	2119.85	84.30	96.80
0-90	2159.88	85.90	98.60
10-90	2089.33	83.10	95.40
20-40	783.79	31.20	35.80
20-50	1219.83	48.50	55.70
40-70	959.80	38.20	43.80
60-80	290.32	11.50	13.30
70-80	95.77	3.80	4.40
80-90	40.02	1.60	1.80
90-110	24.62	1.00	1.10
90-120	28.66	1.10	1.30
90-130	30.02	1.20	1.40
90-150	30.37	1.20	1.40
90-180	30.39	1.20	1.40
110-180	5.77	0.20	0.30
0-180	2190.27	87.10	100.00

Total Luminaire Efficiency = 87.10%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.55
10-20	209.94
20-30	343.27
30-40	440.53
40-50	436.04
50-60	329.21
60-70	194.56
70-80	95.77
80-90	40.02
90-100	16.11
100-110	8.51
110-120	4.04
120-130	1.36
130-140	0.28
140-150	0.07
150-160	0.02
160-170	0.00
170-180	0.00

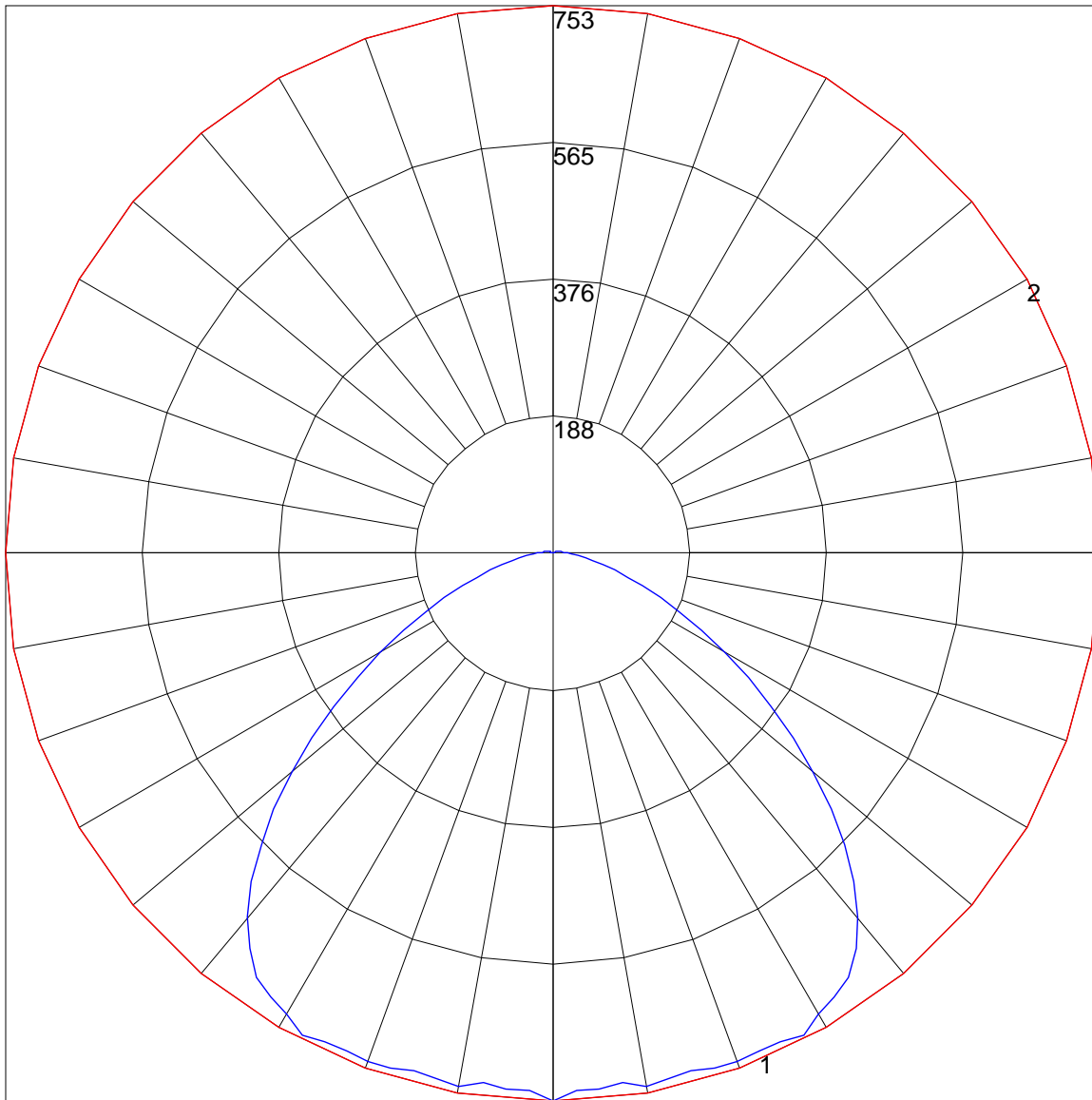
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	48	46
5	67	57	49	43	66	56	48	43	54	47	43	52	46	42	50	45	42	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 = 752.84 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)