



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LEDPLUSHTLOWT50120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu Oct 18 11:02:38 2018

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BS400LEDPLUSHTLOWT50120-277V

[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	48.48 (256 lamps)
Total Lamp Lumens	12410.88
Luminaire Lumens	10815
Total Luminaire Efficiency	87 %
Luminaire Efficacy Rating (LER)	135
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	16930	15878	16930
55	12652	11622	12652
65	8219	7337	8219
75	5043	4303	5043
85	3245	2527	3245

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CANDELA TABULATION

	<u>0</u>
0.0	3638.71
2.5	3630.18
5.0	3640.17
7.5	3639.84
10.0	3644.24
12.5	3644.97
15.0	3646.49
17.5	3653.65
20.0	3652.30
22.5	3660.51
25.0	3668.68
27.5	3667.83
30.0	3643.04
32.5	3588.64
35.0	3504.91
37.5	3381.01
40.0	3217.87
42.5	3023.44
45.0	2800.50
47.5	2556.36
50.0	2307.62
52.5	2056.08
55.0	1813.87
57.5	1576.25
60.0	1351.01
62.5	1144.60
65.0	961.32
67.5	799.46
70.0	660.60
72.5	540.41
75.0	438.83
77.5	353.61
80.0	281.78
82.5	224.00
85.0	176.54
87.5	133.16
90.0	100.87
92.5	83.28
95.0	70.10
97.5	60.25
100.0	52.16
102.5	44.84
105.0	39.00
107.5	33.38
110.0	27.98
112.5	23.72
115.0	19.40
117.5	15.68
120.0	12.41
122.5	9.43
125.0	7.11
127.5	5.18
130.0	3.44
132.5	2.31

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CANDELA TABULATION - (Cont.)

135.0	1.43
137.5	0.92
140.0	0.72
142.5	0.58
145.0	0.46
147.5	0.32
150.0	0.27
152.5	0.18
155.0	0.16
157.5	0.10
160.0	0.09
162.5	0.05
165.0	0.03
167.5	0.04
170.0	0.01
172.5	0.02
175.0	0.00
177.5	0.01
180.0	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1381.78	11.10	12.80
0-30	3076.41	24.80	28.40
0-40	5255.05	42.30	48.60
0-60	9026.37	72.70	83.50
0-80	10468.24	84.30	96.80
0-90	10665.76	85.90	98.60
10-90	10318.34	83.10	95.40
20-40	3873.27	31.20	35.80
20-50	6020.98	48.50	55.70
40-70	4737.53	38.20	43.80
60-80	1441.87	11.60	13.30
70-80	475.66	3.80	4.40
80-90	197.52	1.60	1.80
90-110	120.89	1.00	1.10
90-120	140.60	1.10	1.30
90-130	147.32	1.20	1.40
90-150	148.95	1.20	1.40
90-180	149.04	1.20	1.40
110-180	28.15	0.20	0.30
0-180	10814.8	87.10	100.00

Total Luminaire Efficiency = 87.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	347.42
10-20	1034.35
20-30	1694.63
30-40	2178.63
40-50	2147.71
50-60	1623.61
60-70	966.21
70-80	475.66
80-90	197.52
90-100	79.20
100-110	41.69
110-120	19.70
120-130	6.72
130-140	1.33
140-150	0.30
150-160	0.07
160-170	0.01
170-180	0.00

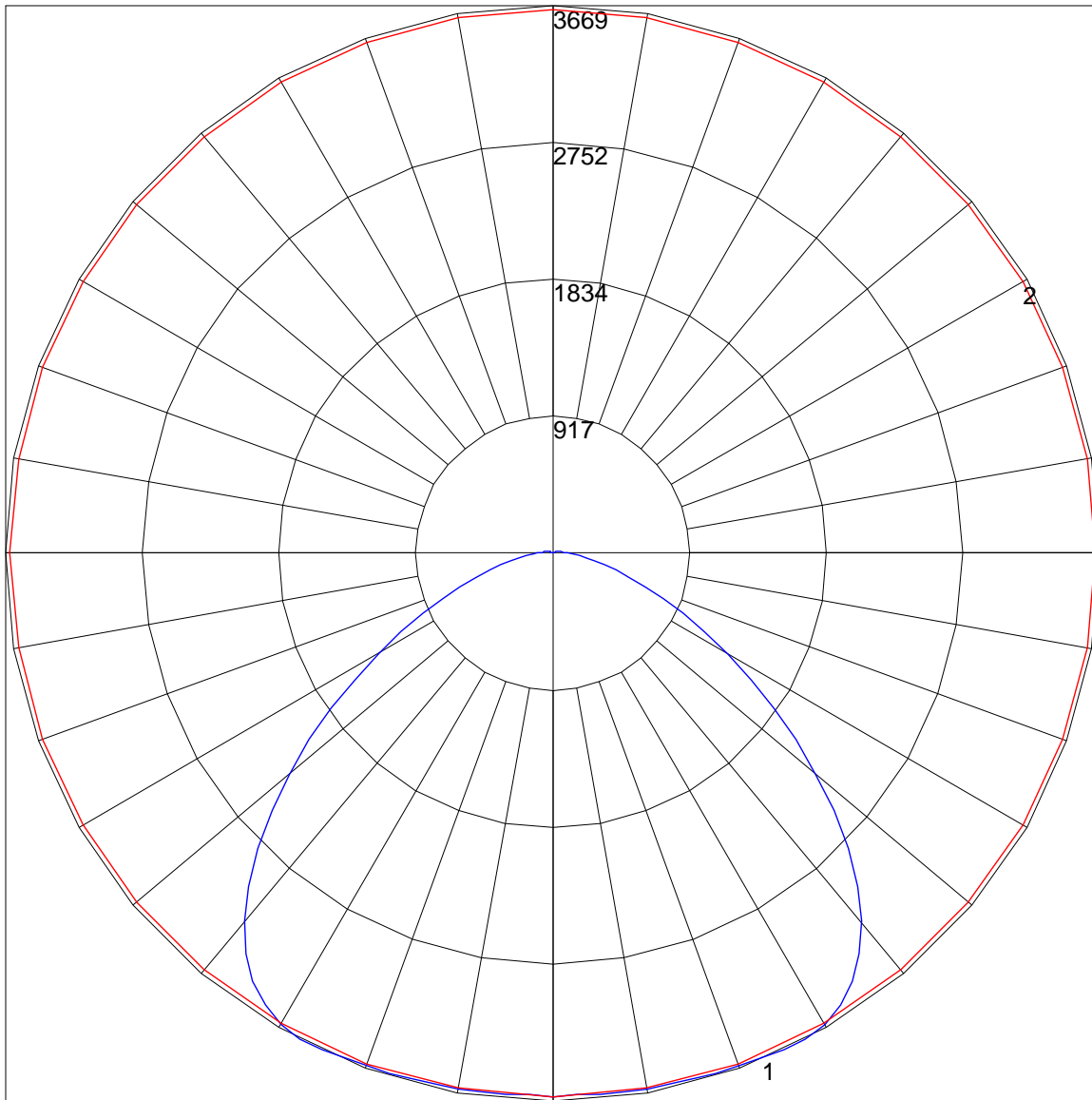
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3668.68 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)