



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.1 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Mon Jan 15 14:55:53 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LED4XHTHOWT50120V-277V

[LAMP] LED 0.428W White 3030 package (150mA)

[LAMPCAT] SPMWHT328FD5WAV0S0

[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	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12374
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.32 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16689	12546	12074
55	14009	10474	9983
65	10279	8037	7880
75	6217	5455	5578
85	3240	3067	3099

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89
2.5	4396.32	4360.46	4482.63	4328.71	4419.62	4436.39	4443.71	4309.08	4331.88	4325.14
5.0	4400.88	4367.30	4326.77	4351.46	4284.50	4350.23	4377.20	4390.93	4343.59	4313.70
7.5	4330.71	4306.69	4309.67	4331.67	4340.35	4282.12	4304.85	4288.45	4330.79	4290.01
10.0	4222.80	4256.67	4338.75	4259.31	4305.18	4292.91	4296.04	4312.57	4283.79	4220.54
12.5	4251.81	4236.19	4255.88	4211.58	4230.92	4180.72	4249.74	4249.49	4231.74	4230.28
15.0	4200.08	4156.98	4164.75	4145.14	4160.66	4201.83	4185.95	4229.77	4263.49	4226.94
17.5	4084.97	4077.43	4118.41	4030.21	4097.87	4132.14	4128.16	4117.72	4181.65	4179.88
20.0	4013.52	3991.74	3997.63	3983.60	4010.02	4048.35	4043.11	4092.21	4126.67	4137.64
22.5	3926.38	3909.53	3887.44	3905.49	3941.01	3944.81	3992.45	4018.67	4028.23	4039.36
25.0	3833.67	3853.80	3795.05	3838.93	3852.13	3867.67	3868.45	3915.73	3946.31	3918.03
27.5	3736.05	3721.42	3687.02	3717.42	3726.05	3748.41	3761.40	3827.65	3826.33	3833.92
30.0	3631.11	3621.02	3603.70	3622.41	3608.02	3648.09	3679.60	3707.98	3733.44	3736.38
32.5	3489.32	3490.56	3485.75	3470.99	3501.95	3503.13	3554.21	3579.58	3605.91	3629.38
35.0	3369.25	3360.83	3388.95	3403.61	3397.73	3408.91	3431.72	3444.89	3474.19	3510.09
37.5	3207.40	3230.01	3243.62	3252.85	3252.89	3277.44	3287.37	3305.82	3335.81	3366.43
40.0	3086.19	3078.14	3107.89	3087.28	3103.94	3117.18	3152.11	3178.69	3210.71	3215.18
42.5	2920.83	2940.43	2946.69	2941.18	2973.49	2999.52	3021.74	3009.06	3039.10	3044.03
45.0	2778.39	2762.31	2765.93	2801.68	2817.65	2827.12	2859.31	2878.40	2884.37	2926.55
47.5	2590.30	2585.51	2600.18	2636.33	2658.22	2685.47	2690.01	2708.19	2729.47	2715.34
50.0	2378.09	2374.58	2416.84	2452.14	2488.02	2520.65	2551.22	2560.42	2581.66	2582.75
52.5	2166.91	2184.46	2212.85	2291.74	2329.34	2354.95	2385.78	2394.05	2428.64	2422.05
55.0	1948.44	1967.12	2022.90	2093.11	2153.80	2179.09	2220.08	2238.64	2258.61	2266.27
57.5	1737.84	1757.71	1832.49	1897.33	1965.23	2005.23	2050.08	2077.06	2093.92	2121.09
60.0	1507.21	1538.14	1610.50	1699.56	1791.33	1844.85	1886.83	1908.15	1929.18	1923.35
62.5	1291.84	1331.92	1409.30	1517.57	1605.45	1679.59	1720.88	1747.21	1762.92	1770.97
65.0	1104.55	1135.82	1217.32	1328.04	1429.35	1503.11	1538.63	1578.63	1600.70	1613.48
67.5	910.27	929.18	1030.09	1147.45	1263.81	1341.08	1383.21	1408.63	1432.99	1445.72
70.0	737.15	769.46	856.40	981.29	1090.23	1166.28	1214.94	1258.99	1270.18	1297.60
72.5	586.94	612.36	704.60	828.20	937.34	1013.89	1070.82	1101.93	1129.77	1140.19
75.0	451.20	480.85	566.32	683.86	791.09	872.33	925.98	958.27	980.33	983.08
77.5	335.44	365.71	446.05	548.94	659.71	741.38	788.15	827.40	834.72	839.94
80.0	247.82	274.31	340.49	445.98	538.39	606.76	657.75	675.59	689.13	696.23
82.5	169.53	201.49	262.64	347.80	433.62	490.70	537.76	555.23	557.45	562.28
85.0	114.94	139.54	201.46	271.44	340.36	382.69	416.15	433.30	435.89	441.36
87.5	79.74	93.79	148.82	207.55	262.81	301.51	320.98	333.54	338.54	336.06
90.0	44.91	62.92	110.65	158.92	199.94	229.47	241.21	254.48	252.01	251.86
92.5	29.73	43.48	80.74	119.41	151.86	171.49	185.99	191.04	192.06	188.82
95.0	23.70	29.83	54.43	85.52	113.15	126.82	137.45	144.23	143.44	143.78
97.5	18.56	22.14	40.16	63.72	84.68	96.09	108.26	107.96	110.99	113.30
100.0	16.37	17.16	29.42	48.68	64.41	76.75	83.88	87.19	88.04	90.03
102.5	13.45	14.06	22.74	37.53	48.93	59.65	70.40	71.76	70.12	74.24
105.0	11.86	12.70	17.29	26.03	36.69	49.15	56.01	59.97	61.39	61.96
107.5	11.23	11.40	13.83	20.91	28.25	37.87	46.16	51.96	52.73	52.81
110.0	9.65	10.08	10.59	16.36	22.65	30.51	38.04	41.52	47.89	49.07
112.5	8.84	8.80	9.37	12.77	17.51	24.60	30.51	35.95	39.66	39.13
115.0	7.26	8.45	7.75	9.83	13.27	18.06	24.13	28.51	32.66	33.75
117.5	6.58	6.38	6.53	6.31	9.30	13.50	19.55	23.80	25.71	28.90
120.0	5.50	5.17	5.51	4.79	6.07	9.59	15.35	19.66	22.16	23.70
122.5	4.01	4.20	4.13	3.73	4.49	7.18	10.25	13.64	17.27	17.84
125.0	3.90	3.62	3.18	2.08	2.99	5.01	9.30	10.24	12.23	12.23
127.5	2.49	2.24	2.09	1.56	2.46	3.85	5.54	8.55	9.25	10.43
130.0	1.95	1.78	1.74	1.45	1.43	2.28	3.88	4.85	7.25	7.68
132.5	1.59	1.09	1.13	0.85	0.46	1.29	2.15	4.07	4.37	4.46

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135.0	1.00	0.95	0.87	0.37	0.34	0.37	1.21	2.51	2.99	3.44
137.5	0.81	0.52	0.42	0.47	0.11	0.29	0.70	1.69	1.82	2.36
140.0	0.53	0.53	0.16	0.10	0.06	0.16	0.26	0.68	1.00	0.83
142.5	0.19	0.26	0.17	0.08	0.13	0.09	0.33	0.42	0.35	0.71
145.0	0.04	0.20	0.14	0.05	0.05	0.05	0.10	0.22	0.38	0.25
147.5	0.05	0.18	0.13	0.10	0.10	0.20	0.11	0.16	0.29	0.20
150.0	0.24	0.47	0.30	0.30	0.06	0.36	0.13	0.11	0.06	0.14
152.5	0.19	0.34	0.24	0.26	0.33	0.43	0.36	0.14	0.07	0.21
155.0	0.31	0.59	0.67	0.82	0.55	0.35	0.29	0.44	0.44	0.37
157.5	0.89	0.72	0.78	1.00	1.00	0.76	0.48	0.38	0.41	0.02
160.0	1.18	1.05	0.88	1.20	1.14	0.84	0.78	0.62	0.58	0.77
162.5	0.93	1.42	0.75	1.01	1.01	1.22	1.09	0.80	1.00	1.32
165.0	0.93	0.98	1.45	1.17	1.04	0.43	1.23	0.81	1.24	0.79
167.5	1.52	0.68	1.38	1.26	1.34	1.12	0.96	0.98	1.42	0.94
170.0	0.72	1.57	0.98	0.76	1.11	0.29	0.77	1.78	0.70	1.33
172.5	1.18	1.91	1.19	1.19	0.35	1.07	0.59	1.46	0.65	1.36
175.0	1.46	1.03	1.13	1.16	1.03	1.55	0.52	0.97	1.10	0.31
177.5	2.25	2.35	1.43	1.64	1.64	0.02	0.33	0.56	0.48	2.15
180.0	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89
2.5	4349.98	4280.44	4394.18	4481.47	4420.22	4336.73	4414.88	4398.78	4337.10	4423.11
5.0	4365.79	4341.54	4348.85	4302.53	4385.81	4297.56	4348.80	4424.35	4365.19	4353.05
7.5	4262.34	4300.96	4332.63	4325.78	4312.81	4309.87	4354.88	4331.49	4330.36	4292.01
10.0	4281.81	4299.96	4264.53	4265.84	4229.38	4302.70	4305.30	4322.17	4291.46	4325.31
12.5	4287.63	4229.25	4245.77	4223.10	4240.74	4233.95	4246.01	4240.79	4226.42	4271.97
15.0	4191.87	4215.91	4198.24	4180.64	4135.93	4171.32	4163.31	4160.63	4181.56	4187.48
17.5	4181.48	4167.57	4161.53	4110.97	4092.32	4077.99	4086.55	4088.47	4075.79	4130.14
20.0	4151.68	4124.70	4056.57	4040.36	4024.63	3983.50	3987.42	4006.57	4041.17	4023.52
22.5	4038.25	4004.10	3997.43	3937.37	3942.29	3927.04	3916.88	3943.38	3944.53	3924.92
25.0	3936.64	3914.37	3915.25	3875.88	3838.47	3791.29	3821.04	3827.57	3865.02	3857.56
27.5	3838.70	3811.49	3779.60	3737.45	3741.16	3737.84	3739.70	3731.92	3727.68	3735.17
30.0	3728.06	3701.49	3671.99	3677.23	3631.04	3601.54	3599.82	3640.90	3615.10	3605.49
32.5	3611.59	3562.45	3517.29	3518.29	3493.68	3510.81	3503.69	3528.32	3488.47	3489.97
35.0	3493.53	3452.54	3411.54	3392.37	3397.27	3366.82	3359.29	3373.99	3391.75	3382.80
37.5	3343.16	3284.14	3276.34	3256.37	3231.63	3243.46	3219.60	3234.73	3236.30	3236.62
40.0	3189.64	3185.69	3124.28	3120.46	3118.40	3095.55	3085.76	3085.42	3079.51	3073.21
42.5	3044.48	3028.76	2993.90	2993.10	2957.25	2937.59	2934.31	2932.35	2944.32	2917.72
45.0	2867.44	2854.89	2872.17	2840.22	2809.13	2794.97	2773.63	2768.21	2766.18	2774.59
47.5	2734.60	2719.93	2702.53	2687.77	2643.78	2604.66	2594.82	2589.67	2579.79	2583.01
50.0	2578.41	2549.41	2527.27	2501.81	2487.63	2443.63	2417.74	2390.78	2381.88	2383.90
52.5	2430.77	2409.68	2355.70	2364.56	2310.93	2267.97	2224.36	2173.05	2166.24	2189.69
55.0	2252.15	2251.18	2213.48	2186.94	2132.33	2092.42	2023.65	1951.42	1940.50	1971.66
57.5	2106.24	2080.97	2039.36	1998.51	1966.72	1903.17	1812.94	1759.26	1741.97	1752.69
60.0	1915.51	1909.01	1900.21	1846.49	1781.10	1712.16	1612.01	1539.33	1514.71	1547.02
62.5	1776.31	1748.66	1725.71	1665.89	1597.08	1508.40	1408.27	1340.20	1300.87	1323.72
65.0	1608.19	1584.83	1545.93	1503.99	1425.87	1313.13	1212.65	1127.91	1099.03	1132.99
67.5	1445.69	1423.14	1380.80	1324.68	1253.07	1152.10	1028.99	936.07	912.26	943.29
70.0	1286.38	1258.34	1222.14	1174.47	1088.58	987.18	855.08	769.79	736.09	770.40
72.5	1134.50	1110.15	1074.39	1018.45	924.11	831.84	702.55	621.65	582.50	611.73
75.0	978.27	962.27	931.72	875.42	793.07	686.18	567.41	480.92	458.50	478.04
77.5	843.93	820.41	788.75	734.22	655.52	555.32	453.67	368.45	344.50	370.35
80.0	693.96	676.14	659.44	610.48	537.55	448.12	349.90	273.69	242.17	273.03

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PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

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82.5	563.35	553.78	535.28	496.06	428.59	349.33	268.14	194.42	171.90	200.09
85.0	439.86	434.17	421.90	390.10	339.16	273.29	198.48	140.51	115.78	140.70
87.5	330.92	333.36	321.57	306.41	260.06	211.52	147.94	99.71	76.93	98.38
90.0	252.15	248.39	250.44	224.06	201.86	165.96	114.76	63.86	46.61	65.30
92.5	192.24	188.65	186.04	172.01	152.24	121.97	80.59	42.78	29.94	43.80
95.0	144.82	144.68	137.50	126.82	107.99	87.58	58.34	30.39	24.00	27.37
97.5	112.81	112.89	107.55	98.61	84.87	63.65	41.28	22.73	18.96	21.30
100.0	89.34	88.70	80.19	75.39	61.56	49.04	30.13	17.77	16.46	16.96
102.5	73.35	72.46	68.96	59.40	50.44	36.10	20.42	14.52	14.88	14.58
105.0	63.07	59.76	53.61	48.34	37.27	26.20	16.87	13.22	12.39	13.88
107.5	52.50	49.84	44.85	37.77	27.96	18.81	14.68	11.11	11.40	11.34
110.0	43.00	42.93	39.39	30.50	22.99	15.88	11.65	9.73	9.52	10.92
112.5	39.98	36.53	29.34	24.35	18.00	12.43	10.10	8.04	9.06	8.26
115.0	32.77	28.61	23.99	18.39	11.91	8.66	7.32	7.69	9.14	7.95
117.5	27.52	23.76	19.25	13.58	9.42	6.31	5.93	6.78	7.05	6.42
120.0	23.12	20.92	14.21	10.41	6.51	4.90	4.94	5.64	5.42	5.63
122.5	17.21	13.57	11.42	7.33	4.20	3.80	3.52	3.94	4.42	4.65
125.0	13.15	11.39	7.76	4.51	2.97	2.36	2.97	3.48	3.54	3.76
127.5	9.26	7.95	6.09	3.66	2.43	1.87	2.26	2.71	2.72	2.59
130.0	6.78	5.07	3.80	2.16	1.03	1.44	1.69	2.60	2.06	2.08
132.5	4.94	2.99	2.53	0.81	0.47	0.77	1.09	1.88	1.56	1.25
135.0	3.30	2.72	1.26	0.41	0.72	0.51	0.84	0.87	0.97	0.90
137.5	2.56	1.31	0.54	0.27	0.30	0.27	0.60	0.57	0.45	0.78
140.0	1.03	0.64	0.22	0.22	0.08	0.21	0.12	0.68	0.35	0.41
142.5	0.37	0.34	0.19	0.05	0.00	0.08	0.18	0.22	0.15	0.31
145.0	0.38	0.17	0.10	0.06	0.18	0.08	0.19	0.01	0.16	0.20
147.5	0.22	0.15	0.07	0.10	0.14	0.01	0.00	0.08	0.10	0.15
150.0	0.12	0.12	0.36	0.16	0.29	0.26	0.21	0.29	0.14	0.24
152.5	0.13	0.13	0.57	0.59	0.71	0.51	0.19	0.38	0.39	0.47
155.0	0.46	0.49	0.42	0.64	0.54	0.61	0.35	0.56	0.52	0.24
157.5	0.35	0.73	0.54	0.67	0.90	0.62	0.44	0.68	1.01	0.62
160.0	0.66	0.46	1.10	0.57	0.88	0.62	1.63	0.80	1.32	0.76
162.5	0.98	0.96	0.55	1.16	0.95	1.03	1.08	1.21	1.25	1.53
165.0	0.84	0.72	1.17	0.82	0.95	0.42	0.52	1.37	1.54	0.70
167.5	0.66	1.23	1.62	1.56	0.93	2.02	0.83	1.23	1.68	1.00
170.0	1.24	1.77	1.75	0.69	0.84	1.33	1.16	1.60	0.86	1.62
172.5	1.37	2.43	1.62	0.57	0.92	1.36	1.39	0.89	1.50	0.75
175.0	1.35	0.89	0.92	1.02	1.31	0.43	0.77	0.50	0.66	1.38
177.5	2.18	0.63	0.96	1.23	0.63	0.72	3.03	0.00	0.55	1.67
180.0	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89
2.5	4350.36	4394.09	4350.77	4463.45	4374.78	4471.29	4385.68	4376.69	4443.70	4378.98
5.0	4296.67	4409.99	4330.57	4397.27	4331.94	4412.98	4291.08	4362.85	4377.31	4368.40
7.5	4338.83	4356.29	4334.72	4351.81	4344.86	4302.29	4244.87	4285.84	4310.94	4294.90
10.0	4276.86	4291.51	4300.16	4273.59	4309.12	4281.68	4236.34	4279.43	4254.60	4278.87
12.5	4248.64	4209.21	4221.31	4198.06	4249.55	4271.54	4224.27	4253.31	4223.28	4201.81
15.0	4146.35	4177.88	4184.18	4193.01	4177.12	4173.17	4214.53	4236.95	4232.29	4238.79
17.5	4110.88	4099.73	4109.44	4096.29	4085.50	4184.37	4150.86	4191.27	4192.87	4125.15
20.0	3961.64	3990.79	4015.54	4060.66	4088.41	4083.85	4122.01	4156.69	4107.25	4089.31
22.5	3924.05	3931.06	3927.86	3962.87	4008.26	4027.69	4034.87	4028.29	4049.23	4015.69
25.0	3846.75	3841.40	3865.07	3867.04	3884.38	3906.64	3930.40	3952.51	3909.23	3910.29
27.5	3705.37	3747.93	3741.26	3749.24	3793.33	3847.27	3848.10	3838.86	3832.75	3821.04

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

CANDELA TABULATION - (Cont.)

30.0	3598.81	3612.29	3643.52	3641.26	3679.92	3721.80	3723.90	3741.07	3721.63	3701.50
32.5	3495.72	3495.48	3514.33	3558.48	3570.56	3592.06	3627.29	3629.42	3622.94	3569.50
35.0	3370.04	3388.76	3382.90	3419.70	3407.09	3447.53	3468.57	3493.95	3487.63	3468.92
37.5	3230.27	3251.55	3274.24	3257.56	3292.45	3305.63	3365.80	3362.88	3348.91	3323.23
40.0	3108.30	3091.03	3145.88	3154.87	3140.52	3186.45	3200.87	3195.50	3197.68	3173.97
42.5	2955.55	2958.16	2972.32	2994.94	3032.06	3039.15	3045.90	3034.37	3027.74	3023.18
45.0	2783.38	2773.95	2832.64	2856.62	2868.86	2878.68	2882.50	2893.92	2888.22	2884.30
47.5	2597.28	2625.93	2642.23	2688.12	2708.83	2714.32	2705.06	2735.16	2738.38	2721.55
50.0	2409.04	2441.30	2492.88	2525.47	2534.35	2568.55	2572.02	2564.19	2598.55	2555.27
52.5	2206.96	2280.67	2328.72	2350.30	2363.54	2402.91	2424.26	2421.38	2428.24	2394.70
55.0	2035.18	2088.46	2153.43	2192.91	2218.73	2245.32	2252.49	2260.05	2263.17	2244.09
57.5	1823.03	1901.14	1963.25	2011.42	2052.28	2077.38	2077.50	2091.92	2106.45	2076.14
60.0	1608.72	1705.07	1799.04	1855.17	1895.54	1895.18	1915.18	1928.96	1927.22	1906.97
62.5	1413.55	1513.03	1610.65	1667.42	1720.03	1745.80	1760.89	1763.94	1762.24	1727.12
65.0	1214.14	1327.68	1431.73	1505.70	1543.62	1575.47	1605.11	1605.65	1602.48	1585.01
67.5	1041.80	1150.40	1263.06	1330.04	1381.86	1411.92	1437.87	1455.80	1437.37	1409.41
70.0	867.96	985.21	1082.64	1174.59	1227.86	1257.09	1283.38	1298.09	1287.52	1253.87
72.5	702.70	820.97	930.74	1016.05	1075.90	1101.37	1127.55	1137.26	1133.74	1110.95
75.0	570.56	688.71	795.02	868.33	932.18	955.66	986.45	987.46	990.03	957.23
77.5	447.50	554.42	652.75	730.40	787.56	812.90	840.25	835.34	839.67	820.09
80.0	346.70	450.54	542.17	605.87	655.86	679.76	691.77	700.61	691.00	679.74
82.5	271.05	347.55	427.56	492.25	527.45	554.96	564.13	572.40	563.54	552.23
85.0	201.02	271.39	342.99	390.93	416.03	437.62	441.12	439.09	442.33	436.67
87.5	148.42	211.15	264.78	300.70	324.02	332.06	336.85	334.83	336.15	327.13
90.0	112.07	163.79	198.93	228.72	245.14	248.16	253.97	256.40	255.21	252.34
92.5	79.50	121.38	146.46	170.05	181.57	190.07	189.12	190.42	189.62	187.91
95.0	56.37	89.14	109.09	127.85	141.19	144.18	145.25	143.02	144.65	143.11
97.5	40.27	65.12	83.01	102.13	107.80	111.32	110.31	110.07	111.61	109.80
100.0	28.17	48.03	62.25	75.13	85.28	87.72	90.47	87.05	91.05	86.83
102.5	22.44	35.58	48.44	58.73	70.97	73.61	73.14	73.35	72.88	73.24
105.0	16.00	26.34	37.66	47.73	56.95	61.26	61.42	61.71	61.53	59.34
107.5	13.78	20.35	28.10	37.31	43.79	49.95	53.09	52.85	51.34	51.79
110.0	11.12	15.67	22.26	29.96	37.96	44.86	44.27	46.02	47.19	41.70
112.5	9.37	12.14	16.03	24.16	31.54	36.17	39.19	39.18	39.65	35.08
115.0	7.38	8.69	11.69	17.72	23.01	29.04	32.73	33.50	31.51	28.96
117.5	6.41	7.47	8.68	13.38	18.91	23.54	27.21	27.97	27.70	23.94
120.0	4.93	5.50	6.38	10.86	14.11	18.75	23.17	23.41	20.76	18.86
122.5	3.92	3.68	4.73	8.25	11.73	13.76	15.89	17.80	17.11	14.14
125.0	3.12	2.89	3.07	5.16	8.44	9.71	12.87	13.86	12.31	11.89
127.5	2.43	1.77	1.62	3.60	4.85	7.78	9.39	10.65	8.79	8.48
130.0	1.50	1.27	1.51	2.25	3.75	4.68	7.07	7.13	6.89	5.83
132.5	0.86	1.05	0.49	1.32	2.52	2.64	4.13	5.28	4.40	3.41
135.0	0.84	0.45	0.29	0.46	1.35	2.53	3.15	3.56	3.46	2.28
137.5	0.50	0.30	0.18	0.27	0.80	1.50	1.94	2.13	1.92	1.52
140.0	0.28	0.05	0.00	0.09	0.20	0.58	1.04	1.23	1.19	0.49
142.5	0.09	0.07	0.07	0.02	0.19	0.48	0.58	0.47	0.34	0.40
145.0	0.01	0.07	0.12	0.01	0.08	0.14	0.20	0.25	0.33	0.09
147.5	0.15	0.16	0.53	0.14	0.16	0.09	0.28	0.20	0.37	0.14
150.0	0.27	0.30	0.31	0.31	0.44	0.10	0.21	0.37	0.24	0.03
152.5	0.27	0.38	0.23	0.45	0.67	0.22	0.15	0.06	0.21	0.29
155.0	0.78	0.83	0.42	0.61	0.47	0.60	0.40	0.20	0.07	0.26
157.5	0.94	0.67	0.79	0.99	0.46	0.48	0.43	0.22	0.77	0.37
160.0	0.41	1.36	0.38	1.08	0.75	0.62	1.00	0.64	0.99	0.45
162.5	1.05	1.36	0.65	1.31	1.30	0.48	0.55	1.13	0.77	0.40
165.0	0.64	0.82	1.20	1.36	0.97	1.31	1.11	0.55	0.91	0.21
167.5	1.67	1.68	1.28	1.98	0.91	0.82	1.02	1.30	1.71	1.45

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

CANDELA TABULATION - (Cont.)

170.0	1.27	1.36	0.75	1.12	0.70	0.88	0.60	1.23	0.44	0.88
172.5	0.91	1.34	0.69	0.91	1.64	0.77	0.98	0.71	1.68	2.03
175.0	2.24	0.60	1.28	1.77	1.31	1.50	1.06	0.88	1.48	0.96
177.5	1.10	1.64	2.16	2.69	1.06	1.13	0.00	0.56	0.57	0.54
180.0	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12

Vert. Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89	4385.89
2.5	4434.67	4258.22	4438.78	4378.28	4350.61	4351.19	4396.32
5.0	4340.27	4303.18	4393.03	4374.22	4464.52	4384.70	4400.88
7.5	4382.57	4260.81	4306.56	4319.51	4357.25	4355.62	4330.71
10.0	4262.93	4279.81	4227.60	4287.21	4296.71	4284.92	4222.80
12.5	4260.05	4248.45	4218.40	4227.14	4219.24	4222.98	4251.81
15.0	4214.21	4155.64	4143.08	4178.42	4183.10	4123.09	4200.08
17.5	4095.31	4136.96	4064.10	4112.43	4083.18	4097.12	4084.97
20.0	4042.45	4031.93	4042.08	3988.77	4004.81	3998.55	4013.52
22.5	3964.93	3954.57	3938.53	3934.45	3927.78	3918.75	3926.38
25.0	3878.63	3839.26	3852.04	3806.70	3794.82	3827.58	3833.67
27.5	3777.97	3788.83	3753.60	3726.11	3709.02	3720.71	3736.05
30.0	3674.97	3648.33	3626.37	3614.64	3610.38	3611.39	3631.11
32.5	3551.85	3515.30	3497.64	3488.08	3499.58	3477.35	3489.32
35.0	3395.44	3393.55	3367.20	3370.94	3366.96	3350.68	3369.25
37.5	3295.40	3255.14	3236.40	3236.06	3220.08	3221.07	3207.40
40.0	3141.00	3117.99	3109.25	3063.24	3078.78	3072.13	3086.19
42.5	2993.94	2994.55	2969.99	2945.66	2924.49	2925.35	2920.83
45.0	2863.60	2818.87	2805.92	2787.25	2752.08	2747.19	2778.39
47.5	2686.43	2685.15	2660.30	2616.55	2585.48	2563.14	2590.30
50.0	2539.85	2524.96	2482.51	2450.46	2406.21	2376.01	2378.09
52.5	2389.56	2339.70	2297.42	2270.52	2210.82	2169.90	2166.91
55.0	2226.22	2167.95	2131.46	2076.12	2029.91	1960.20	1948.44
57.5	2059.14	2005.13	1958.85	1908.18	1804.98	1737.85	1737.84
60.0	1884.88	1837.13	1785.88	1708.61	1611.07	1532.56	1507.21
62.5	1703.33	1672.46	1601.10	1511.66	1405.67	1322.47	1291.84
65.0	1552.95	1503.18	1439.82	1325.69	1214.35	1119.58	1104.55
67.5	1387.69	1329.80	1263.32	1143.70	1030.11	938.99	910.27
70.0	1226.23	1171.05	1092.91	972.77	853.74	764.47	737.15
72.5	1076.21	1014.68	941.35	825.27	708.42	613.80	586.94
75.0	927.27	872.34	790.70	680.60	565.12	478.28	451.20
77.5	798.73	728.00	653.23	553.29	450.37	368.35	335.44
80.0	656.07	612.33	536.35	445.03	344.78	269.47	247.82
82.5	536.38	496.68	429.74	342.35	264.44	197.13	169.53
85.0	422.33	387.76	340.98	276.49	197.60	138.76	114.94
87.5	324.21	301.52	262.59	208.73	152.36	97.15	79.74
90.0	242.22	227.22	202.25	158.82	109.41	64.68	44.91
92.5	184.42	171.26	152.26	118.55	82.24	41.64	29.73
95.0	135.90	128.22	113.26	91.82	57.28	29.07	23.70
97.5	108.20	95.49	82.81	66.06	39.98	21.70	18.56
100.0	83.86	75.71	62.18	49.28	31.02	17.69	16.37
102.5	69.22	59.12	48.96	35.31	22.27	15.14	13.45
105.0	53.09	49.15	38.86	27.45	17.89	12.07	11.86
107.5	47.22	36.54	29.03	19.63	13.72	10.44	11.23
110.0	37.94	28.32	22.13	15.20	11.94	10.25	9.65
112.5	28.46	23.11	16.60	11.60	9.19	8.33	8.84
115.0	24.33	18.09	13.44	9.32	7.61	8.35	7.26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

CANDELA TABULATION - (Cont.)

117.5	18.80	14.24	9.37	6.60	6.15	6.94	6.58
120.0	15.13	10.75	7.43	4.98	4.72	5.58	5.50
122.5	10.10	7.84	4.82	4.45	4.19	3.99	4.01
125.0	8.20	5.59	3.08	3.00	2.79	3.65	3.90
127.5	5.83	2.92	1.94	2.15	2.52	2.59	2.49
130.0	3.99	1.83	1.22	1.31	1.54	1.82	1.95
132.5	2.28	0.79	0.72	0.94	1.04	1.20	1.59
135.0	1.55	0.50	0.16	0.64	0.99	0.62	1.00
137.5	0.38	0.26	0.12	0.19	0.49	0.65	0.81
140.0	0.24	0.15	0.12	0.14	0.40	0.28	0.53
142.5	0.16	0.01	0.11	0.08	0.12	0.31	0.19
145.0	0.06	0.08	0.12	0.07	0.01	0.24	0.04
147.5	0.03	0.21	0.10	0.19	0.28	0.36	0.05
150.0	0.46	0.32	0.20	0.19	0.19	0.19	0.24
152.5	0.53	0.32	0.25	0.53	0.63	0.60	0.19
155.0	0.25	0.71	0.33	0.44	0.69	0.42	0.31
157.5	0.19	0.44	0.85	0.89	1.07	0.58	0.89
160.0	0.71	0.23	0.35	1.77	0.74	0.94	1.18
162.5	0.73	0.73	1.57	1.15	1.13	1.15	0.93
165.0	0.59	1.24	1.15	1.01	0.65	1.18	0.93
167.5	1.27	1.26	1.36	1.41	2.12	0.88	1.52
170.0	1.23	0.55	0.86	0.63	0.96	1.26	0.72
172.5	1.22	1.37	1.14	1.19	1.83	0.91	1.18
175.0	1.60	1.56	2.33	0.59	1.37	1.13	1.46
177.5	1.06	3.18	1.68	1.18	1.32	1.03	2.25
180.0	1.12	1.12	1.12	1.12	1.12	1.12	1.12

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1593.63	N.A.	12.90
0-30	3376.08	N.A.	27.30
0-40	5507.2	N.A.	44.50
0-60	9591.87	N.A.	77.50
0-80	11818.13	N.A.	95.50
0-90	12183.63	N.A.	98.50
10-90	11770.31	N.A.	95.10
20-40	3913.57	N.A.	31.60
20-50	6090.04	N.A.	49.20
40-70	5483.34	N.A.	44.30
60-80	2226.27	N.A.	18.00
70-80	827.59	N.A.	6.70
80-90	365.50	N.A.	3.00
90-110	164.32	N.A.	1.30
90-120	182.79	N.A.	1.50
90-130	188.91	N.A.	1.50
90-150	190.24	N.A.	1.50
90-180	190.87	N.A.	1.50
110-180	26.55	N.A.	0.20
0-180	12374.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	413.32
10-20	1180.3
20-30	1782.45
30-40	2131.13
40-50	2176.46
50-60	1908.2
60-70	1398.67
70-80	827.59
80-90	365.50
90-100	120.57
100-110	43.75
110-120	18.47
120-130	6.11
130-140	1.20
140-150	0.14
150-160	0.22
160-170	0.29
170-180	0.11

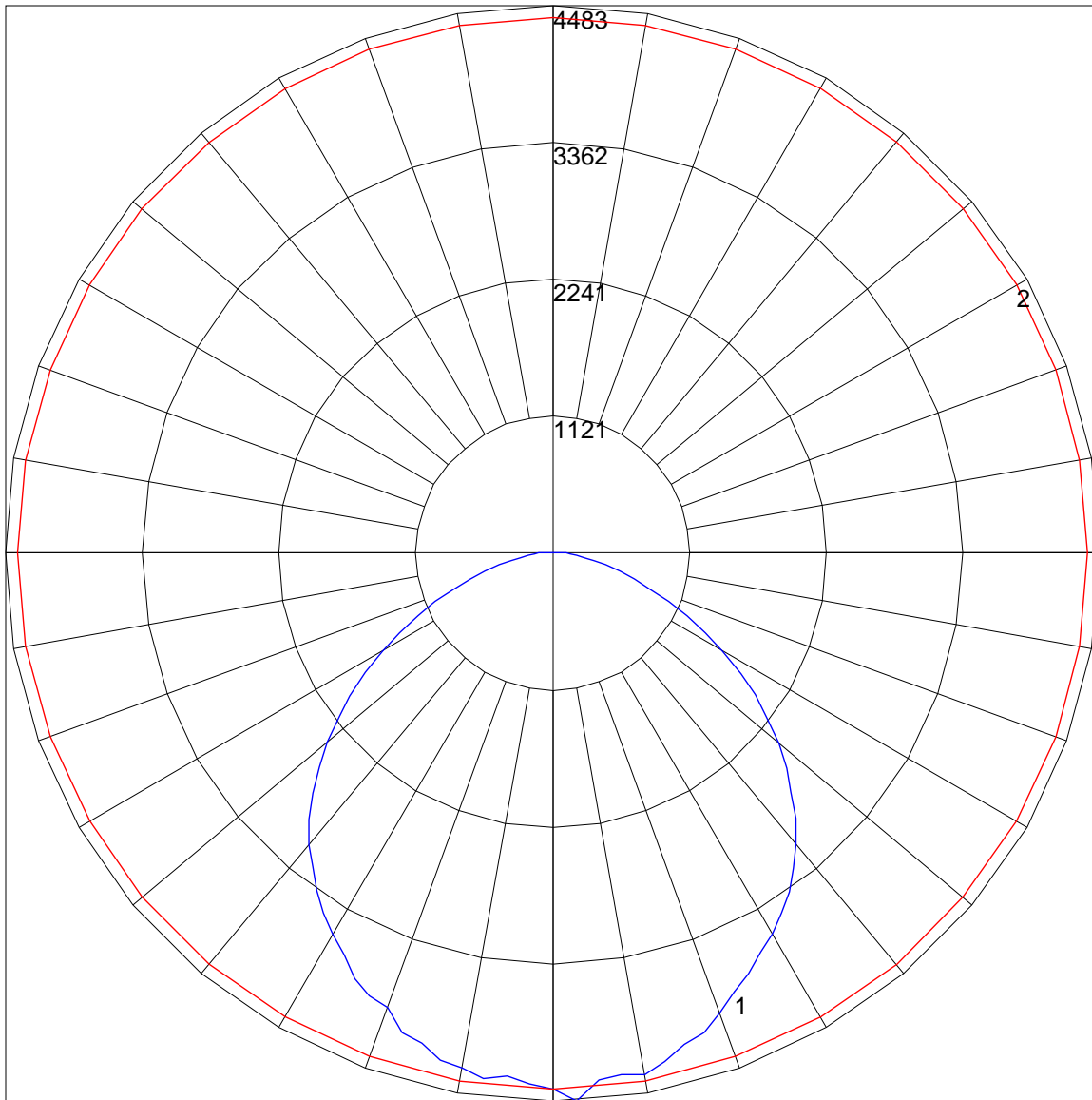
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT50120V-277V_S.IES

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	82	76	84	79	74	81	76	72	77	74	70	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	57
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	36	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4482.63 Located At Horizontal Angle = 20, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)