



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Tue Nov 29 12:55:06 2016

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LEDA4HTHO120V-277V_P

[LAMP] LED 0.805W Amber XP-E (350mA) (core only) EQ TO OSRAN GY DASPA 1.23

[LAMPCAT] XPEAMB-I1-0000-00901

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 180

[OTHER] Lumens per lamp: 15.4

[OTHER] Input watts: 50

[OTHER] Distribution: Direct

[OTHER] Symmetry: None

[OTHER] Photometric Type: C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	855
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	12
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.22 ft
Luminous Width (90-270)	0.59 ft
Luminous Height	0.43 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1436	712	525
55	1199	440	327
65	892	224	141
75	504	48	8
85	87	3	3

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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	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817
2.5	457.527	447.058	452.907	447.479	452.770	449.231	450.193	446.722	449.345	450.739
5.0	445.060	443.132	447.285	447.911	444.844	444.884	446.967	450.494	448.674	446.147
7.5	441.129	442.324	440.827	444.634	448.685	452.440	448.702	447.962	449.402	445.561
10.0	437.914	439.900	438.113	436.139	438.784	441.356	442.392	442.312	440.560	446.824
12.5	434.312	436.656	432.474	435.649	434.244	437.049	438.187	438.346	434.966	440.298
15.0	424.531	427.586	426.966	426.443	425.458	427.951	427.012	426.972	428.446	428.952
17.5	415.865	417.430	416.224	417.299	419.239	416.980	419.245	416.423	420.349	420.315
20.0	407.694	407.347	406.346	412.696	408.314	407.506	406.255	405.037	397.447	399.148
22.5	394.624	397.429	399.108	396.599	395.939	392.974	386.431	385.964	382.829	380.615
25.0	386.112	388.360	386.459	382.362	383.648	374.778	369.878	364.331	358.794	354.732
27.5	374.430	371.739	372.763	373.338	364.974	357.673	348.353	335.642	331.454	325.047
30.0	359.727	361.702	361.497	356.564	348.433	332.603	318.577	306.076	299.829	293.376
32.5	345.110	346.140	345.269	337.673	326.657	308.404	290.332	274.099	266.116	262.713
35.0	328.125	330.982	327.118	320.011	303.806	279.846	258.127	244.283	238.673	233.717
37.5	314.555	313.940	310.298	299.288	277.752	250.718	231.082	216.789	210.968	207.702
40.0	295.459	297.598	292.921	275.641	250.593	223.498	205.500	194.006	189.813	184.589
42.5	277.496	277.319	270.833	252.653	222.815	198.524	182.433	174.643	169.516	167.679
45.0	259.612	259.134	250.792	226.018	196.242	175.605	162.262	155.343	152.281	149.408
47.5	239.276	240.260	227.173	201.790	172.925	154.045	145.135	138.153	134.660	133.943
50.0	220.340	218.911	204.260	179.024	151.559	136.640	127.439	121.607	120.446	118.693
52.5	201.830	200.038	181.978	155.462	130.073	119.444	111.769	107.131	104.895	103.729
55.0	182.797	178.393	159.974	133.095	113.390	102.807	96.719	92.326	90.255	89.191
57.5	162.626	158.888	138.358	112.941	96.730	87.609	82.203	78.232	75.870	74.960
60.0	144.003	138.011	117.117	94.221	81.139	73.725	67.466	64.223	62.533	61.008
62.5	124.298	119.695	96.923	77.754	66.954	60.200	54.812	51.307	49.389	47.745
65.0	106.653	100.178	79.063	61.344	52.189	47.779	43.153	38.823	36.939	35.654
67.5	88.633	81.185	62.197	48.888	40.610	35.232	31.278	27.306	25.252	24.256
70.0	72.337	63.688	47.016	36.251	29.457	24.439	20.410	17.315	14.948	14.179
72.5	56.285	48.246	33.736	25.036	20.188	15.482	11.141	7.852	5.804	5.240
75.0	41.867	34.857	22.066	16.302	11.369	7.249	3.721	2.253	1.969	1.895
77.5	29.309	22.328	13.861	9.019	4.763	2.162	1.644	1.582	1.542	1.531
80.0	17.889	12.729	6.959	3.522	1.519	1.303	1.280	1.201	1.184	1.166
82.5	9.349	5.918	2.629	1.092	0.939	0.910	0.865	0.836	0.831	0.814
85.0	3.812	1.974	0.717	0.586	0.552	0.541	0.512	0.506	0.484	0.489
87.5	0.558	0.313	0.239	0.216	0.205	0.205	0.188	0.188	0.176	0.171
90.0	0.006	0.006	0.006	0.006	0.006	0.006	0.011	0.006	0.006	0.006
92.5	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.006	0.011	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.011	0.006	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.006	0.006	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.000	0.006	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.006	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.006
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817
2.5	445.783	449.368	458.881	452.372	446.864	448.440	448.600	450.364	446.540	453.573
5.0	445.977	444.969	452.674	445.237	451.723	442.722	452.452	448.150	450.426	444.355
7.5	442.517	438.517	439.143	448.850	446.739	445.783	441.806	444.178	444.844	439.592
10.0	445.880	444.884	439.689	436.912	440.639	438.164	436.321	432.878	438.073	438.574
12.5	435.780	436.605	437.311	432.901	429.908	432.019	434.022	431.752	431.046	433.305
15.0	429.959	425.339	426.522	427.507	427.097	428.303	427.854	422.716	424.588	425.572
17.5	418.682	415.837	415.632	419.768	420.895	417.276	419.592	415.233	413.475	418.266
20.0	402.294	401.623	401.668	401.509	406.875	413.066	408.565	410.767	406.989	409.026
22.5	380.610	387.028	391.387	392.206	395.495	396.286	396.610	394.112	396.986	398.943
25.0	358.208	360.945	371.438	378.271	383.358	385.498	387.017	382.749	387.939	383.751
27.5	328.393	334.208	345.559	358.220	365.776	371.170	372.581	370.726	372.843	373.093
30.0	297.064	307.214	318.987	334.606	347.778	354.914	357.935	360.336	357.417	359.682
32.5	263.817	273.928	290.082	307.630	322.589	339.852	345.076	347.551	344.512	345.616
35.0	237.341	244.067	260.010	281.075	302.014	316.182	329.918	331.067	329.218	331.818
37.5	212.408	218.291	231.003	252.619	277.399	298.827	310.822	314.196	311.197	313.206
40.0	190.404	194.865	205.807	224.573	251.686	276.329	290.691	295.834	294.822	294.776
42.5	168.487	172.976	182.899	198.922	224.721	252.403	269.188	276.864	277.114	275.652
45.0	151.121	155.735	162.222	174.643	197.329	226.712	249.973	260.090	257.490	258.349
47.5	134.802	137.192	143.735	155.064	174.160	202.188	227.003	239.048	239.111	240.442
50.0	119.621	122.090	127.325	135.075	152.230	177.949	204.749	220.715	220.920	220.761
52.5	104.707	106.938	111.962	118.369	130.733	154.176	180.265	200.891	202.513	199.173
55.0	90.795	92.650	96.138	102.363	112.787	133.470	160.282	178.518	182.603	179.673
57.5	75.848	79.358	82.659	87.359	95.234	112.935	139.701	158.358	161.659	158.842
60.0	62.175	64.456	68.695	73.407	80.348	94.625	116.673	139.007	143.929	139.428
62.5	49.127	51.859	55.489	59.847	65.873	77.139	98.022	118.392	125.100	118.688
65.0	37.395	39.352	42.977	47.489	53.805	61.759	78.300	99.256	107.370	100.355
67.5	25.508	27.346	30.868	35.921	40.769	48.718	62.704	81.748	89.748	81.743
70.0	14.754	17.104	21.030	24.535	30.094	36.205	46.971	64.399	72.889	64.052
72.5	5.792	7.664	11.283	15.352	20.302	25.377	33.884	48.661	56.923	48.803
75.0	1.974	2.242	3.704	7.255	11.710	16.188	22.646	33.685	42.038	33.782
77.5	1.559	1.588	1.633	2.117	4.831	9.127	13.610	22.350	29.195	22.197
80.0	1.178	1.201	1.263	1.297	1.519	3.494	6.976	12.894	18.236	12.876

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CANDELA TABULATION - (Cont.)

82.5	0.831	0.859	0.871	0.882	0.962	1.070	2.674	6.105	9.645	5.952
85.0	0.489	0.518	0.512	0.535	0.558	0.609	0.751	2.100	3.693	1.923
87.5	0.188	0.193	0.193	0.193	0.205	0.216	0.233	0.319	0.546	0.302
90.0	0.011	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
92.5	0.011	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.006	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000
112.5	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817	453.817
2.5	447.979	444.924	443.587	441.447	446.295	446.426	438.562	442.193	441.260	457.288
5.0	443.126	451.826	446.591	456.423	447.968	448.748	456.071	441.686	447.536	444.207
7.5	446.187	443.319	444.127	450.051	448.827	448.281	443.968	447.422	453.618	440.019
10.0	439.985	439.746	442.022	442.187	441.527	443.109	447.149	447.086	441.635	440.304
12.5	434.443	434.210	434.909	436.679	434.949	435.211	433.077	436.781	438.386	434.284
15.0	425.299	426.813	429.606	425.282	424.127	428.411	429.316	429.248	427.063	421.555
17.5	419.660	420.372	416.309	416.918	418.408	416.849	419.797	416.201	418.494	422.061
20.0	407.927	409.526	408.400	408.508	407.660	403.984	403.040	397.868	400.695	402.710
22.5	398.129	398.795	397.936	390.875	390.004	385.532	384.246	381.293	383.415	387.210
25.0	385.537	385.276	384.877	376.354	369.400	365.435	360.001	361.332	362.555	364.632
27.5	374.732	371.176	367.870	357.008	348.939	337.861	332.239	330.760	331.795	337.605

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.IES

CANDELA TABULATION - (Cont.)

30.0	359.289	355.255	347.158	338.891	319.903	308.239	301.280	297.456	299.049	309.451
32.5	346.214	338.896	326.270	310.970	290.930	279.937	269.979	267.174	266.946	276.995
35.0	328.222	320.256	303.345	284.870	262.662	244.972	239.583	236.010	238.132	247.225
37.5	311.516	298.606	278.776	254.832	232.932	218.889	213.381	209.415	211.736	220.522
40.0	290.634	276.597	253.034	226.234	205.477	195.195	188.897	188.202	190.257	194.843
42.5	272.540	254.815	226.599	200.322	183.912	174.683	171.394	169.590	170.256	174.120
45.0	251.879	230.240	200.038	176.828	162.802	155.525	151.320	152.344	152.151	156.902
47.5	229.091	204.982	175.719	156.236	145.004	140.150	134.887	134.068	135.758	138.256
50.0	206.103	179.235	152.947	136.679	128.133	123.439	119.570	117.789	119.894	122.927
52.5	182.717	154.796	132.759	119.518	113.003	107.023	106.113	103.723	104.696	108.548
55.0	161.175	133.459	113.777	103.205	96.144	92.189	89.595	89.635	89.856	91.876
57.5	138.790	112.844	96.633	87.376	82.459	78.311	76.274	75.478	76.348	78.465
60.0	118.591	95.205	81.526	74.107	67.887	64.195	62.471	62.118	61.748	64.422
62.5	97.891	77.390	66.106	60.428	55.790	51.944	49.657	49.179	49.355	51.523
65.0	79.552	62.966	53.133	47.090	43.625	39.358	36.718	35.756	36.632	39.329
67.5	62.954	48.627	41.571	35.642	31.306	28.092	25.440	25.247	25.611	27.870
70.0	47.221	36.331	30.191	25.201	20.990	17.571	15.198	13.958	15.101	17.201
72.5	33.964	25.412	20.359	15.682	11.221	8.012	5.980	5.400	5.923	8.012
75.0	23.443	16.552	12.103	7.608	3.790	2.282	1.963	1.918	1.940	2.316
77.5	14.100	9.155	4.939	2.128	1.661	1.582	1.576	1.508	1.531	1.593
80.0	7.181	3.562	1.553	1.320	1.235	1.212	1.144	1.172	1.184	1.235
82.5	2.765	1.092	0.967	0.910	0.854	0.836	0.831	0.825	0.831	0.854
85.0	0.751	0.597	0.569	0.541	0.535	0.501	0.495	0.484	0.472	0.478
87.5	0.233	0.216	0.216	0.205	0.188	0.193	0.176	0.188	0.182	0.182
90.0	0.006	0.000	0.006	0.006	0.006	0.006	0.006	0.017	0.000	0.006
92.5	0.000	0.000	0.000	0.000	0.006	0.006	0.000	0.006	0.000	0.000
95.0	0.000	0.000	0.006	0.000	0.000	0.006	0.006	0.000	0.006	0.000
97.5	0.000	0.000	0.000	0.000	0.006	0.011	0.006	0.006	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.006	0.006	0.000	0.000	0.006	0.006
102.5	0.000	0.000	0.006	0.006	0.006	0.000	0.006	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.006	0.006	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.006	0.000	0.000	0.006	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.006	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.000	0.006	0.006
115.0	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.IES

CANDELA TABULATION - (Cont.)

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	453.817	453.817	453.817	453.817	453.817	453.817	453.817
2.5	447.359	444.873	447.530	445.026	452.770	450.204	457.527
5.0	450.511	447.069	443.194	449.089	443.063	451.433	445.060
7.5	446.756	446.477	440.491	443.854	440.998	445.732	441.163
10.0	437.828	440.827	437.282	440.207	437.214	440.309	437.914
12.5	433.976	434.693	435.547	435.319	434.744	434.221	434.312
15.0	426.773	428.252	426.943	425.089	429.658	427.040	424.531
17.5	421.766	421.680	422.300	417.339	418.761	418.977	415.865
20.0	406.801	408.735	409.828	409.578	409.760	407.415	407.694
22.5	390.249	393.372	398.385	399.000	398.260	397.879	394.630
25.0	372.382	380.348	380.604	383.222	388.058	386.954	386.112
27.5	350.276	359.198	367.693	372.149	373.896	373.201	374.430
30.0	322.333	333.701	348.774	355.392	361.133	360.473	359.733
32.5	290.201	308.683	329.098	341.024	345.241	348.467	345.110
35.0	262.457	283.971	304.085	319.932	327.949	331.471	328.125
37.5	230.815	253.967	279.100	300.125	309.058	316.045	314.555
40.0	206.729	226.308	251.925	276.932	293.012	295.345	295.459
42.5	184.089	199.964	226.792	253.063	273.712	279.134	277.496
45.0	164.452	177.312	200.362	228.766	252.352	257.575	259.612
47.5	144.742	156.657	176.026	204.271	228.271	240.033	239.276
50.0	126.551	136.918	152.236	178.125	204.823	219.560	220.340
52.5	111.934	119.132	132.366	154.307	183.007	199.093	201.830
55.0	96.229	102.312	113.669	134.091	160.953	179.087	182.803
57.5	83.529	87.825	95.689	113.413	138.193	159.906	162.626
60.0	69.042	73.754	81.293	93.623	116.935	139.007	144.003
62.5	55.426	60.308	66.869	77.902	97.612	119.137	124.298
65.0	43.341	47.733	53.702	62.573	79.478	99.581	106.653
67.5	31.676	35.608	41.520	48.906	62.123	81.646	88.633
70.0	20.934	24.911	29.628	35.910	47.341	64.729	72.337
72.5	11.084	15.790	20.336	25.503	33.947	47.921	56.285
75.0	3.835	7.391	11.522	16.376	22.788	34.607	41.867
77.5	1.667	2.139	5.007	9.252	13.872	22.174	29.309
80.0	1.257	1.309	1.519	3.408	7.357	12.871	17.889
82.5	0.882	0.888	0.956	1.110	2.686	5.912	9.349
85.0	0.512	0.535	0.569	0.597	0.734	1.889	3.812
87.5	0.193	0.199	0.216	0.222	0.245	0.319	0.558
90.0	0.011	0.006	0.006	0.006	0.006	0.006	0.006
92.5	0.011	0.000	0.006	0.000	0.000	0.000	0.000
95.0	0.006	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.006	0.006	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.006	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.IES

CANDELA TABULATION - (Cont.)

117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	162.74	N.A.	19.00
0-30	334.79	N.A.	39.20
0-40	514.53	N.A.	60.20
0-60	777.92	N.A.	91.00
0-80	853.51	N.A.	99.80
0-90	855.00	N.A.	100.00
10-90	812.48	N.A.	95.00
20-40	351.79	N.A.	41.10
20-50	505.22	N.A.	59.10
40-70	322.54	N.A.	37.70
60-80	75.59	N.A.	8.80
70-80	16.44	N.A.	1.90
80-90	1.49	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	855.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.51
10-20	120.23
20-30	172.04
30-40	179.74
40-50	153.43
50-60	109.96
60-70	59.15
70-80	16.44
80-90	1.49
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.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	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

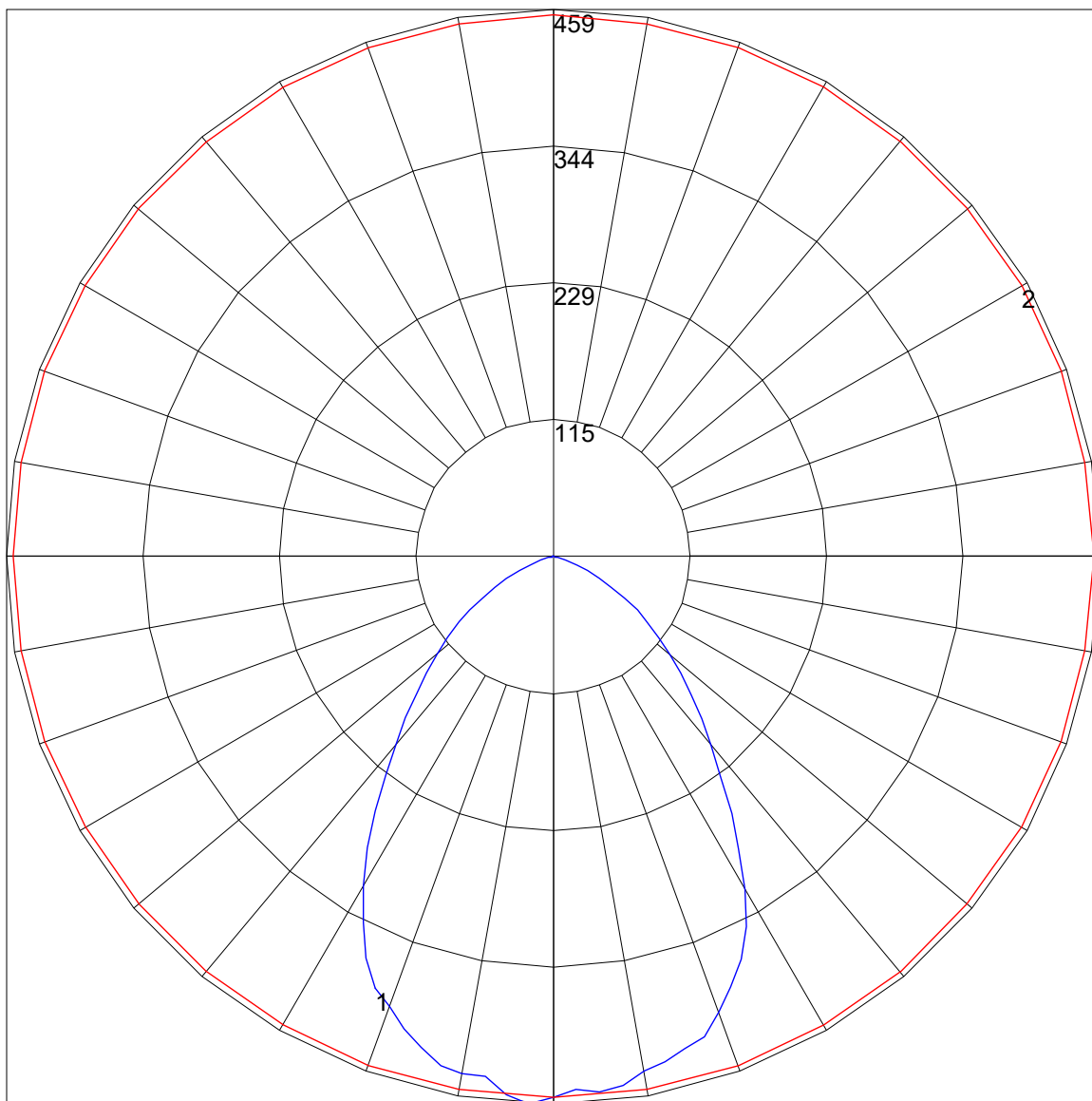
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDA4HTHO120V-277V_P.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	11.4	12.9	11.8	13.2	13.5	7.3	8.7	7.7	9.0	9.4
	3H	12.6	13.9	13.0	14.2	14.6	7.6	8.9	8.0	9.2	9.6
	4H	12.9	14.1	13.3	14.5	14.8	7.5	8.7	7.9	9.1	9.5
	6H	13.0	14.1	13.4	14.5	14.9	7.5	8.6	7.9	8.9	9.3
	8H	13.0	14.1	13.5	14.5	14.9	7.4	8.5	7.9	8.9	9.3
	12H	13.0	14.0	13.4	14.4	14.8	7.4	8.4	7.8	8.8	9.2
4H	2H	11.4	12.6	11.8	12.9	13.3	7.6	8.7	8.0	9.1	9.5
	3H	12.6	13.6	13.0	14.0	14.4	7.9	8.9	8.3	9.3	9.7
	4H	12.9	13.8	13.4	14.2	14.7	7.8	8.7	8.3	9.1	9.6
	6H	13.1	13.8	13.5	14.2	14.7	7.8	8.5	8.2	9.0	9.4
	8H	13.0	13.7	13.5	14.2	14.6	7.7	8.4	8.2	8.9	9.3
	12H	13.0	13.6	13.5	14.1	14.6	7.7	8.3	8.2	8.8	9.3
8H	4H	12.8	13.5	13.3	14.0	14.4	7.8	8.5	8.2	8.9	9.4
	6H	12.9	13.5	13.4	14.0	14.5	7.7	8.3	8.2	8.8	9.3
	8H	12.9	13.4	13.4	13.9	14.4	7.7	8.2	8.2	8.7	9.2
	12H	12.9	13.3	13.4	13.8	14.4	7.6	8.1	8.1	8.6	9.1
12H	4H	12.8	13.4	13.3	13.9	14.3	7.8	8.4	8.2	8.9	9.3
	6H	12.9	13.4	13.4	13.9	14.4	7.7	8.2	8.2	8.6	9.2
	8H	12.9	13.3	13.4	13.8	14.4	7.6	8.1	8.1	8.6	9.1

Maximum UGR = 14.9

POLAR GRAPH



Maximum Candela = 458.881 Located At Horizontal Angle = 120, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (120 - 300) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)