



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDA4HTLO120V-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] BS100LEDA4HTLO120V-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	610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	12
Total Luminaire Watts	50
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	1025	508	375
55	855	314	233
65	636	160	101
75	360	34	6
85	62	2	2

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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	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813
2.5	326.461	318.990	323.164	319.291	323.066	320.541	321.227	318.751	320.622	321.617
5.0	317.565	316.189	319.153	319.599	317.411	317.439	318.925	321.442	320.143	318.341
7.5	314.760	315.612	314.544	317.261	320.151	322.831	320.163	319.636	320.663	317.922
10.0	312.466	313.883	312.608	311.199	313.087	314.922	315.661	315.604	314.354	318.824
12.5	309.896	311.568	308.584	310.850	309.847	311.849	312.661	312.774	310.363	314.167
15.0	302.917	305.097	304.654	304.281	303.578	305.357	304.687	304.658	305.710	306.071
17.5	296.733	297.850	296.989	297.756	299.141	297.529	299.145	297.131	299.932	299.908
20.0	290.903	290.655	289.941	294.472	291.346	290.769	289.876	289.007	283.591	284.805
22.5	281.577	283.579	284.777	282.986	282.515	280.400	275.731	275.398	273.161	271.582
25.0	275.503	277.107	275.751	272.828	273.745	267.416	263.920	259.962	256.011	253.113
27.5	267.168	265.248	265.979	266.389	260.421	255.212	248.561	239.491	236.503	231.932
30.0	256.677	258.086	257.940	254.420	248.618	237.323	227.315	218.396	213.938	209.334
32.5	246.247	246.982	246.361	240.941	233.081	220.056	207.161	195.578	189.882	187.454
35.0	234.128	236.166	233.409	228.338	216.776	199.679	184.182	174.304	170.301	166.764
37.5	224.445	224.006	221.408	213.552	198.185	178.896	164.885	154.686	150.533	148.202
40.0	210.820	212.346	209.009	196.679	178.806	159.473	146.631	138.430	135.438	131.710
42.5	198.002	197.876	193.248	180.276	158.986	141.653	130.172	124.614	120.956	119.644
45.0	185.242	184.901	178.949	161.271	140.025	125.300	115.779	110.842	108.658	106.607
47.5	170.731	171.433	162.095	143.984	123.387	109.916	103.558	98.577	96.084	95.572
50.0	157.219	156.200	145.746	127.740	108.142	97.497	90.932	86.770	85.942	84.692
52.5	144.012	142.733	129.847	110.927	92.812	85.228	79.751	76.442	74.846	74.014
55.0	130.432	127.289	114.147	94.967	80.908	73.356	69.012	65.878	64.400	63.640
57.5	116.039	113.371	98.723	80.587	69.020	62.512	58.655	55.821	54.136	53.486
60.0	102.750	98.475	83.567	67.230	57.896	52.605	48.139	45.825	44.619	43.531
62.5	88.691	85.406	69.158	55.480	47.774	42.955	39.110	36.609	35.241	34.067
65.0	76.101	71.480	56.414	43.771	37.238	34.092	30.791	27.701	26.358	25.440
67.5	63.243	57.928	44.380	34.884	28.976	25.140	22.318	19.484	18.018	17.308
70.0	51.615	45.444	33.548	25.866	21.019	17.438	14.563	12.355	10.666	10.118
72.5	40.162	34.425	24.072	17.864	14.405	11.047	7.949	5.603	4.141	3.739
75.0	29.873	24.872	15.745	11.632	8.112	5.172	2.655	1.608	1.405	1.352
77.5	20.913	15.931	9.890	6.435	3.398	1.543	1.173	1.129	1.100	1.092
80.0	12.765	9.082	4.965	2.513	1.084	0.930	0.913	0.857	0.844	0.832
82.5	6.671	4.222	1.876	0.780	0.670	0.650	0.617	0.597	0.593	0.581
85.0	2.720	1.409	0.512	0.418	0.394	0.386	0.365	0.361	0.345	0.349
87.5	0.398	0.223	0.171	0.154	0.146	0.146	0.134	0.134	0.126	0.122
90.0	0.004	0.004	0.004	0.004	0.004	0.004	0.008	0.004	0.004	0.004
92.5	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.004	0.008	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.008	0.004	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.004	0.004	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.004	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.004	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	0.004	0.000	0.000	0.000	0.004	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.004
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	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	0.004	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									
	100	110	120	130	140	150	160	170	180	190
0.0	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813
2.5	318.081	320.638	327.427	322.782	318.852	319.977	320.090	321.349	318.621	323.639
5.0	318.219	317.500	322.997	317.691	322.319	315.896	322.839	319.770	321.394	317.062
7.5	315.750	312.896	313.343	320.269	318.763	318.081	315.243	316.936	317.411	313.663
10.0	318.150	317.439	313.732	311.751	314.410	312.644	311.329	308.873	312.579	312.937
12.5	310.943	311.532	312.035	308.889	306.753	308.260	309.689	308.069	307.565	309.177
15.0	306.790	303.493	304.338	305.040	304.748	305.608	305.288	301.621	302.957	303.660
17.5	298.743	296.713	296.567	299.518	300.322	297.740	299.393	296.283	295.028	298.447
20.0	287.050	286.571	286.604	286.490	290.318	294.736	291.524	293.095	290.400	291.853
22.5	271.577	276.157	279.267	279.852	282.198	282.763	282.994	281.212	283.262	284.659
25.0	255.593	257.546	265.033	269.909	273.538	275.065	276.149	273.104	276.807	273.819
27.5	234.319	238.468	246.568	255.601	260.993	264.842	265.849	264.525	266.036	266.214
30.0	211.964	219.208	227.608	238.752	248.151	253.242	255.398	257.112	255.029	256.645
32.5	188.242	195.457	206.983	219.504	230.178	242.496	246.223	247.989	245.821	246.608
35.0	169.351	174.150	185.526	200.556	215.497	225.606	235.407	236.227	234.908	236.763
37.5	151.560	155.758	164.828	180.252	197.933	213.223	221.782	224.189	222.050	223.483
40.0	135.860	139.043	146.850	160.240	179.586	197.170	207.417	211.088	210.365	210.332
42.5	120.221	123.424	130.505	141.938	160.346	180.098	192.075	197.551	197.730	196.687
45.0	107.830	111.122	115.751	124.614	140.801	161.767	178.364	185.583	183.727	184.340
47.5	96.185	97.891	102.560	110.643	124.268	144.268	161.974	170.569	170.613	171.563
50.0	85.353	87.115	90.851	96.380	108.621	126.972	146.095	157.487	157.634	157.520
52.5	74.712	76.304	79.889	84.460	93.283	110.010	128.625	143.342	144.499	142.116
55.0	64.785	66.109	68.598	73.039	80.477	95.235	114.366	127.378	130.294	128.203
57.5	54.120	56.625	58.980	62.333	67.952	80.583	99.681	112.994	115.349	113.339
60.0	44.364	45.992	49.016	52.378	57.331	67.518	83.250	99.186	102.698	99.486
62.5	35.054	37.003	39.593	42.703	47.003	55.041	69.942	84.476	89.263	84.688
65.0	26.682	28.079	30.665	33.885	38.391	44.067	55.870	70.823	76.612	71.606
67.5	18.201	19.512	22.025	25.631	29.090	34.762	44.741	58.330	64.038	58.326
70.0	10.528	12.204	15.006	17.507	21.473	25.834	33.515	45.951	52.009	45.703
72.5	4.133	5.469	8.051	10.954	14.486	18.108	24.177	34.721	40.616	34.823
75.0	1.409	1.600	2.643	5.176	8.355	11.551	16.159	24.035	29.995	24.104
77.5	1.112	1.133	1.165	1.510	3.447	6.512	9.712	15.948	20.832	15.838
80.0	0.840	0.857	0.901	0.926	1.084	2.493	4.978	9.200	13.012	9.188

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CANDELA TABULATION - (Cont.)

82.5	0.593	0.613	0.621	0.629	0.686	0.763	1.908	4.356	6.882	4.247
85.0	0.349	0.369	0.365	0.382	0.398	0.434	0.536	1.498	2.635	1.372
87.5	0.134	0.138	0.138	0.138	0.146	0.154	0.166	0.227	0.390	0.215
90.0	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
92.5	0.008	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.004	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000
112.5	0.004	0.004	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	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813	323.813
2.5	319.648	317.468	316.514	314.987	318.446	318.539	312.929	315.519	314.853	326.290
5.0	316.185	322.392	318.657	325.673	319.640	320.196	325.421	315.157	319.331	316.956
7.5	318.369	316.323	316.899	321.126	320.253	319.863	316.786	319.250	323.671	313.968
10.0	313.944	313.773	315.397	315.515	315.044	316.172	319.055	319.010	315.121	314.171
12.5	309.989	309.823	310.322	311.585	310.350	310.537	309.015	311.658	312.803	309.875
15.0	303.465	304.545	306.538	303.453	302.628	305.686	306.331	306.282	304.723	300.793
17.5	299.441	299.949	297.050	297.484	298.548	297.436	299.539	296.973	298.609	301.155
20.0	291.070	292.210	291.406	291.484	290.879	288.256	287.582	283.891	285.909	287.346
22.5	284.078	284.553	283.940	278.902	278.281	275.089	274.172	272.065	273.579	276.287
25.0	275.093	274.907	274.622	268.541	263.579	260.749	256.872	257.822	258.695	260.177
27.5	267.383	264.846	262.487	254.737	248.979	241.075	237.063	236.008	236.747	240.892

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	256.365	253.486	247.709	241.810	228.261	219.938	214.973	212.245	213.381	220.803
32.5	247.035	241.814	232.804	221.887	207.588	199.744	192.639	190.637	190.475	197.645
35.0	234.197	228.513	216.447	203.264	187.418	174.795	170.950	168.401	169.915	176.403
37.5	222.277	213.065	198.916	181.831	166.204	156.184	152.254	149.424	151.081	157.349
40.0	207.377	197.361	180.548	161.426	146.615	139.278	134.784	134.289	135.754	139.027
42.5	194.466	181.819	161.685	142.936	131.227	124.642	122.295	121.008	121.483	124.240
45.0	179.724	164.284	142.733	126.173	116.165	110.972	107.972	108.702	108.564	111.954
47.5	163.464	146.261	125.381	111.479	103.465	100.002	96.246	95.662	96.868	98.650
50.0	147.061	127.890	109.133	97.525	91.427	88.078	85.317	84.046	85.548	87.712
52.5	130.375	110.452	94.728	85.280	80.632	76.365	75.715	74.010	74.704	77.453
55.0	115.004	95.227	81.184	73.640	68.602	65.780	63.929	63.957	64.116	65.557
57.5	99.032	80.518	68.951	62.345	58.838	55.878	54.424	53.856	54.477	55.987
60.0	84.619	67.932	58.172	52.877	48.440	45.805	44.575	44.323	44.059	45.967
62.5	69.848	55.220	47.169	43.117	39.808	37.064	35.432	35.091	35.216	36.763
65.0	56.763	44.928	37.912	33.601	31.128	28.083	26.199	25.513	26.138	28.063
67.5	44.920	34.697	29.662	25.432	22.338	20.044	18.152	18.014	18.274	19.886
70.0	33.694	25.923	21.542	17.982	14.977	12.537	10.844	9.959	10.775	12.273
72.5	24.234	18.132	14.527	11.189	8.006	5.716	4.267	3.853	4.226	5.716
75.0	16.727	11.811	8.636	5.428	2.704	1.628	1.401	1.368	1.384	1.652
77.5	10.061	6.533	3.524	1.518	1.186	1.129	1.125	1.076	1.092	1.137
80.0	5.124	2.542	1.108	0.942	0.881	0.865	0.816	0.836	0.844	0.881
82.5	1.973	0.780	0.690	0.650	0.609	0.597	0.593	0.589	0.593	0.609
85.0	0.536	0.426	0.406	0.386	0.382	0.357	0.353	0.345	0.337	0.341
87.5	0.166	0.154	0.154	0.146	0.134	0.138	0.126	0.134	0.130	0.130
90.0	0.004	0.000	0.004	0.004	0.004	0.004	0.004	0.012	0.000	0.004
92.5	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.004	0.000	0.000
95.0	0.000	0.000	0.004	0.000	0.000	0.004	0.004	0.000	0.004	0.000
97.5	0.000	0.000	0.000	0.000	0.004	0.008	0.004	0.004	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.000	0.004	0.004
102.5	0.000	0.000	0.004	0.004	0.004	0.000	0.004	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.004	0.000	0.000	0.004	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.004	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.004	0.004
115.0	0.000	0.000	0.000	0.000	0.000	0.004	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	0.004	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
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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

	300	310	320	330	340	350	360
0.0	323.813	323.813	323.813	323.813	323.813	323.813	323.813
2.5	319.205	317.431	319.327	317.541	323.066	321.235	326.461
5.0	321.455	318.998	316.233	320.440	316.140	322.112	317.565
7.5	318.775	318.576	314.305	316.704	314.666	318.044	314.784
10.0	312.405	314.544	312.015	314.102	311.966	314.175	312.466
12.5	309.656	310.168	310.777	310.614	310.204	309.831	309.896
15.0	304.516	305.572	304.638	303.314	306.575	304.707	302.917
17.5	300.943	300.883	301.325	297.785	298.800	298.954	296.733
20.0	290.266	291.646	292.426	292.247	292.377	290.704	290.903
22.5	278.455	280.684	284.261	284.699	284.172	283.900	281.581
25.0	265.707	271.391	271.573	273.441	276.892	276.104	275.503
27.5	249.934	256.300	262.361	265.540	266.787	266.291	267.168
30.0	229.995	238.107	248.862	253.584	257.680	257.209	256.681
32.5	207.068	220.255	234.822	243.332	246.340	248.643	246.247
35.0	187.272	202.622	216.975	228.282	234.002	236.515	234.128
37.5	164.694	181.214	199.147	214.149	220.523	225.509	224.445
40.0	147.508	161.478	179.756	197.600	209.074	210.738	210.820
42.5	131.353	142.681	161.823	180.568	195.302	199.171	198.002
45.0	117.342	126.518	142.965	163.232	180.061	183.788	185.242
47.5	103.278	111.780	125.600	145.754	162.879	171.271	170.731
50.0	90.298	97.696	108.625	127.098	146.148	156.663	157.219
52.5	79.868	85.004	94.448	110.103	130.582	142.059	144.012
55.0	68.663	73.003	81.107	95.678	114.845	127.784	130.436
57.5	59.601	62.666	68.277	80.924	98.605	114.098	116.039
60.0	49.264	52.626	58.005	66.803	83.437	99.186	102.750
62.5	39.548	43.032	47.713	55.585	69.649	85.008	88.691
65.0	30.925	34.059	38.318	44.648	56.710	71.054	76.101
67.5	22.602	25.407	29.626	34.896	44.327	58.257	63.243
70.0	14.937	17.775	21.140	25.623	33.779	46.187	51.615
72.5	7.909	11.266	14.510	18.197	24.222	34.193	40.162
75.0	2.736	5.274	8.221	11.685	16.260	24.693	29.873
77.5	1.190	1.527	3.573	6.602	9.898	15.822	20.913
80.0	0.897	0.934	1.084	2.432	5.250	9.184	12.765
82.5	0.629	0.633	0.682	0.792	1.916	4.218	6.671
85.0	0.365	0.382	0.406	0.426	0.524	1.348	2.720
87.5	0.138	0.142	0.154	0.158	0.175	0.227	0.398
90.0	0.008	0.004	0.004	0.004	0.004	0.004	0.004
92.5	0.008	0.000	0.004	0.000	0.000	0.000	0.000
95.0	0.004	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	0.004	0.004	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	0.004	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

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PHOTOMETRIC FILENAME : BS100LEDA4HTLO120V-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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	116.12	N.A.	19.00
0-30	238.88	N.A.	39.20
0-40	367.13	N.A.	60.20
0-60	555.07	N.A.	91.00
0-80	609.01	N.A.	99.80
0-90	610.07	N.A.	100.00
10-90	579.73	N.A.	95.00
20-40	251.01	N.A.	41.10
20-50	360.49	N.A.	59.10
40-70	230.14	N.A.	37.70
60-80	53.94	N.A.	8.80
70-80	11.73	N.A.	1.90
80-90	1.06	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	610.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.34
10-20	85.79
20-30	122.76
30-40	128.25
40-50	109.48
50-60	78.46
60-70	42.21
70-80	11.73
80-90	1.06
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 : BS100LEDA4HTLO120V-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

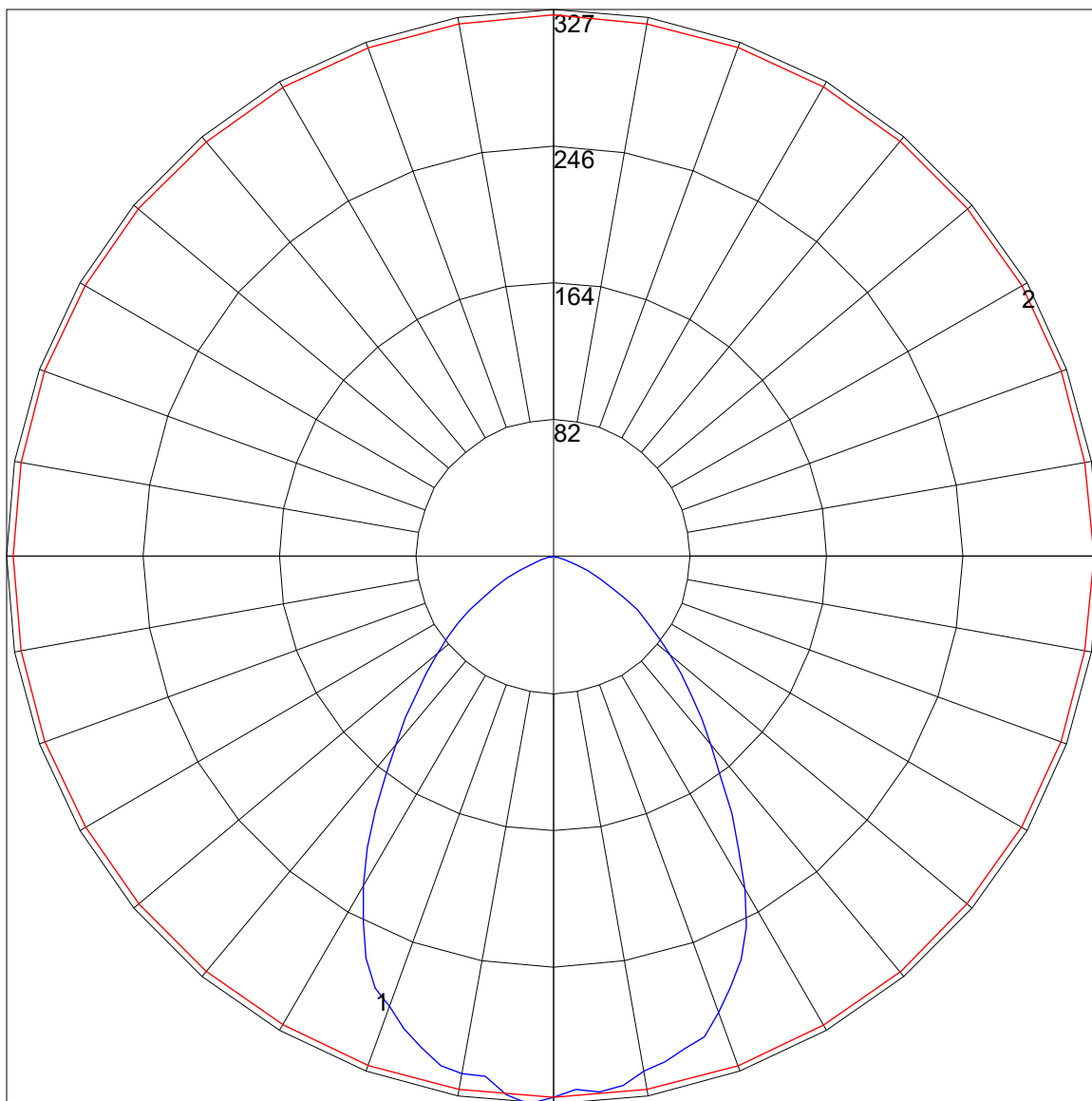
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UGR TABLE - CORRECTED

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	10.2	11.7	10.6	12.0	12.3	6.1	7.5	6.5	7.8	8.2
	3H	11.4	12.7	11.8	13.0	13.4	6.4	7.7	6.8	8.0	8.4
	4H	11.7	12.9	12.1	13.3	13.7	6.3	7.5	6.7	7.9	8.3
	6H	11.9	12.9	12.3	13.3	13.7	6.3	7.4	6.7	7.7	8.1
	8H	11.8	12.9	12.3	13.3	13.7	6.2	7.3	6.7	7.7	8.1
	12H	11.8	12.8	12.2	13.2	13.6	6.2	7.2	6.6	7.6	8.0
4H	2H	10.2	11.4	10.6	11.7	12.1	6.4	7.5	6.8	7.9	8.3
	3H	11.4	12.4	11.8	12.8	13.2	6.7	7.7	7.1	8.1	8.5
	4H	11.7	12.6	12.2	13.0	13.5	6.6	7.5	7.1	7.9	8.4
	6H	11.9	12.6	12.3	13.1	13.5	6.6	7.3	7.0	7.8	8.2
	8H	11.8	12.5	12.3	13.0	13.5	6.5	7.2	7.0	7.7	8.1
	12H	11.8	12.4	12.3	12.9	13.4	6.5	7.1	7.0	7.6	8.1
8H	4H	11.6	12.3	12.1	12.8	13.2	6.6	7.3	7.1	7.7	8.2
	6H	11.7	12.3	12.2	12.8	13.3	6.5	7.1	7.0	7.6	8.1
	8H	11.7	12.2	12.2	12.7	13.2	6.5	7.0	7.0	7.5	8.0
	12H	11.7	12.1	12.2	12.6	13.2	6.4	6.9	6.9	7.4	7.9
12H	4H	11.6	12.2	12.1	12.7	13.2	6.6	7.2	7.0	7.7	8.1
	6H	11.7	12.2	12.2	12.7	13.2	6.5	7.0	7.0	7.4	8.0
	8H	11.7	12.1	12.2	12.6	13.2	6.4	6.9	6.9	7.4	7.9

Maximum UGR = 13.7

POLAR GRAPH



Maximum Candela = 327.427 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)