



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDA2HT120-277V_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 12:12:22 2016

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LEDA2HT120-277V_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: 90

[OTHER] Lumens per lamp: 21.7

[OTHER] Input watts: 30

[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	366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	12
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.29 ft
Luminous Width (90-270)	0.58 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	1094	508	418
55	853	313	254
65	565	150	97
75	269	23	7
85	14	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	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760
2.5	221.550	214.836	217.652	218.048	218.040	219.624	217.379	220.297	217.609	225.967
5.0	215.411	215.582	213.912	218.086	216.374	215.334	219.641	215.381	217.153	222.508
7.5	215.705	215.769	212.983	214.879	215.283	211.535	214.269	218.108	216.016	212.761
10.0	213.277	212.208	213.115	210.410	211.577	212.186	213.737	211.897	211.309	212.097
12.5	208.361	207.539	208.595	210.465	208.284	208.050	206.653	205.796	208.685	206.103
15.0	203.930	206.418	204.885	204.782	203.326	202.755	202.865	201.238	201.843	200.045
17.5	199.636	199.871	198.891	198.793	200.028	196.510	193.945	193.174	191.806	190.614
20.0	194.754	194.814	194.980	192.867	192.518	189.485	186.554	180.858	180.228	178.899
22.5	188.577	188.654	188.871	186.609	183.657	178.520	174.243	169.395	165.825	164.376
25.0	182.869	183.154	181.787	180.019	173.957	166.732	159.430	154.416	150.148	148.785
27.5	176.121	176.040	173.569	170.353	162.689	155.115	145.888	138.488	134.995	133.986
30.0	168.977	168.074	167.009	160.321	151.264	140.631	129.904	123.825	122.322	119.318
32.5	160.219	159.699	157.539	149.569	138.280	125.985	118.466	111.574	108.038	107.245
35.0	152.154	150.868	148.218	138.420	126.007	112.268	104.532	99.373	97.426	96.655
37.5	143.319	141.888	136.955	126.505	112.967	100.723	94.325	89.388	87.462	87.500
40.0	133.913	133.172	126.688	114.015	100.378	90.457	84.574	80.297	80.369	79.249
42.5	124.017	122.513	115.190	101.912	88.412	80.825	75.641	73.736	72.079	71.879
45.0	114.321	112.975	104.183	89.907	77.626	70.635	68.075	66.942	64.526	63.960
47.5	104.089	103.216	92.974	79.372	68.765	63.465	60.479	58.324	58.008	57.506
50.0	95.066	92.672	82.324	69.408	59.785	55.640	53.229	52.236	51.231	50.161
52.5	86.393	83.245	71.866	59.112	51.925	49.101	46.259	44.998	44.521	43.661
55.0	77.251	73.123	61.761	50.481	44.930	41.876	39.771	38.838	37.935	37.296
57.5	67.500	63.713	52.411	42.660	37.594	35.162	33.075	32.504	31.354	30.634
60.0	59.193	54.128	43.767	35.418	31.341	29.232	27.503	25.803	24.529	24.955
62.5	50.149	46.076	35.899	29.015	25.377	23.128	21.475	20.393	19.294	18.761
65.0	41.774	37.318	28.218	22.932	19.967	18.131	16.222	14.880	13.734	13.197
67.5	34.868	29.718	21.875	17.526	14.867	13.117	11.255	9.640	8.456	8.222
70.0	27.481	22.548	16.243	12.507	10.480	8.443	6.884	5.129	4.119	3.621
72.5	20.712	16.554	11.234	8.554	6.697	4.682	2.846	1.713	1.201	1.120
75.0	14.761	11.136	7.485	5.227	3.472	1.751	0.958	0.895	0.852	0.843
77.5	9.615	6.850	4.196	2.624	1.235	0.733	0.711	0.677	0.665	0.673
80.0	5.295	3.647	2.028	0.963	0.571	0.545	0.515	0.520	0.494	0.498
82.5	2.309	1.529	0.673	0.413	0.388	0.379	0.371	0.358	0.349	0.341
85.0	0.469	0.383	0.243	0.230	0.226	0.226	0.217	0.209	0.209	0.200
87.5	0.068	0.072	0.089	0.081	0.081	0.081	0.081	0.077	0.077	0.072
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.009	0.004	0.004
92.5	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.004	0.009
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.004	0.004	0.004
100.0	0.000	0.000	0.000	0.000	0.000	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	0.004	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000
112.5	0.004	0.000	0.000	0.000	0.004	0.004	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.004	0.000	0.000
120.0	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.013	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	0.017	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	0.004	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	0.009	0.009	0.009	0.004	0.004	0.000	0.000	0.000
147.5	0.013	0.004	0.017	0.026	0.021	0.009	0.000	0.000	0.000	0.000
150.0	0.030	0.026	0.026	0.017	0.026	0.017	0.013	0.004	0.000	0.000
152.5	0.043	0.030	0.038	0.047	0.055	0.026	0.013	0.013	0.017	0.017
155.0	0.043	0.038	0.017	0.051	0.047	0.038	0.043	0.021	0.013	0.013
157.5	0.051	0.060	0.043	0.064	0.060	0.047	0.034	0.030	0.026	0.021
160.0	0.051	0.055	0.055	0.060	0.051	0.068	0.043	0.047	0.043	0.051
162.5	0.098	0.081	0.064	0.077	0.051	0.047	0.060	0.064	0.060	0.064
165.0	0.060	0.081	0.068	0.089	0.047	0.089	0.077	0.047	0.081	0.072
167.5	0.106	0.111	0.102	0.115	0.051	0.111	0.038	0.060	0.068	0.094
170.0	0.030	0.111	0.068	0.072	0.077	0.055	0.072	0.043	0.030	0.072
172.5	0.072	0.051	0.051	0.064	0.064	0.047	0.072	0.021	0.064	0.030
175.0	0.030	0.132	0.068	0.055	0.128	0.030	0.047	0.034	0.077	0.077
177.5	0.077	0.068	0.030	0.038	0.060	0.106	0.132	0.102	0.055	0.068
180.0	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0.0	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760
2.5	220.642	223.514	219.825	220.681	217.145	215.782	218.372	214.402	215.347	221.341
5.0	219.658	218.683	217.520	220.135	220.306	213.132	217.494	215.939	215.565	216.161
7.5	213.826	214.960	216.314	213.477	214.891	217.166	214.823	213.924	215.935	215.467
10.0	211.560	210.009	211.479	211.432	212.493	213.720	212.242	210.840	211.347	211.965
12.5	207.918	207.505	207.083	208.536	210.044	209.690	208.433	206.755	209.426	208.940
15.0	201.728	202.039	200.446	201.741	207.292	205.132	203.986	204.071	204.714	203.815
17.5	190.333	192.326	195.883	195.312	198.806	200.084	198.823	200.160	198.874	198.776
20.0	179.418	182.008	183.870	186.524	191.138	193.353	195.385	193.975	195.594	193.745
22.5	166.178	167.605	173.501	178.102	183.981	186.166	186.550	188.245	187.849	188.714
25.0	150.595	154.975	159.827	166.907	173.327	178.196	180.569	181.945	181.757	180.654
27.5	135.425	138.160	143.830	152.955	162.170	169.710	172.057	174.720	174.843	174.089
30.0	121.065	123.088	130.586	140.167	151.060	159.950	164.159	166.127	168.773	166.281
32.5	108.681	111.672	116.826	126.539	137.151	147.477	154.689	158.229	159.200	158.037
35.0	98.432	100.195	105.350	112.234	124.464	136.703	146.220	149.419	149.488	150.604
37.5	87.926	90.734	93.554	100.451	111.578	124.320	134.390	139.928	139.996	140.282
40.0	80.335	81.715	83.568	89.912	98.879	111.842	124.652	131.187	132.081	130.292
42.5	72.147	73.677	75.572	79.355	87.765	100.340	114.061	120.051	122.032	119.736
45.0	65.421	65.808	67.444	71.035	76.637	88.361	101.520	110.585	111.753	111.825
47.5	57.868	58.511	59.900	62.903	67.909	78.307	91.543	101.043	103.160	101.056
50.0	50.626	51.631	53.378	54.813	59.107	68.245	80.314	90.887	94.274	90.397
52.5	44.526	44.700	45.859	48.449	51.397	58.848	70.120	81.694	84.156	81.272
55.0	37.812	38.502	39.541	40.794	44.432	49.961	60.475	71.951	75.500	71.709
57.5	30.732	32.086	32.938	34.344	37.309	41.803	51.469	62.460	66.183	62.469
60.0	24.921	25.914	27.302	29.087	30.996	34.736	42.357	53.493	57.821	53.450
62.5	19.477	20.001	21.854	23.349	24.874	28.295	35.068	44.875	49.620	44.964
65.0	13.709	14.774	15.941	17.773	19.881	22.391	28.052	36.823	40.849	36.500
67.5	8.422	9.772	10.995	12.848	14.867	17.189	21.351	29.023	33.991	29.057
70.0	3.958	5.044	6.718	8.533	10.322	12.448	15.843	22.284	27.349	22.386
72.5	1.180	1.632	2.897	4.656	6.594	8.554	11.021	16.158	19.915	16.533
75.0	0.839	0.856	0.933	1.717	3.429	5.274	7.033	11.067	14.556	10.816
77.5	0.669	0.673	0.699	0.720	1.189	2.547	4.175	6.671	9.176	6.756
80.0	0.490	0.498	0.511	0.524	0.575	0.899	1.972	3.485	5.193	3.472

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CANDELA TABULATION - (Cont.)

82.5	0.337	0.341	0.371	0.362	0.379	0.396	0.639	1.393	2.156	1.470
85.0	0.200	0.204	0.209	0.209	0.226	0.234	0.226	0.349	0.426	0.337
87.5	0.068	0.068	0.072	0.077	0.081	0.085	0.081	0.077	0.064	0.072
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	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	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.004	0.004	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	0.000	0.004	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
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	0.009	0.004
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.026	0.004
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.017	0.009
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.013
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.017	0.013
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.026	0.021
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.030	0.043	0.013
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.021	0.026	0.021
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.009	0.030	0.021
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.013	0.013	0.013
145.0	0.000	0.000	0.000	0.004	0.004	0.004	0.009	0.009	0.004	0.009
147.5	0.000	0.000	0.000	0.009	0.017	0.009	0.009	0.009	0.013	0.004
150.0	0.000	0.004	0.004	0.026	0.030	0.026	0.043	0.038	0.013	0.013
152.5	0.004	0.009	0.021	0.026	0.047	0.038	0.043	0.013	0.030	0.038
155.0	0.026	0.021	0.030	0.038	0.047	0.055	0.060	0.038	0.055	0.043
157.5	0.021	0.021	0.060	0.060	0.060	0.055	0.038	0.055	0.047	0.043
160.0	0.047	0.051	0.034	0.072	0.043	0.064	0.064	0.068	0.060	0.072
162.5	0.064	0.026	0.051	0.068	0.068	0.047	0.055	0.060	0.081	0.119
165.0	0.068	0.081	0.081	0.085	0.081	0.094	0.077	0.094	0.043	0.081
167.5	0.106	0.038	0.072	0.055	0.094	0.072	0.085	0.098	0.072	0.089
170.0	0.026	0.051	0.047	0.030	0.085	0.047	0.047	0.072	0.102	0.055
172.5	0.064	0.060	0.030	0.085	0.038	0.085	0.081	0.077	0.055	0.060
175.0	0.132	0.098	0.034	0.081	0.072	0.060	0.085	0.017	0.064	0.017
177.5	0.064	0.077	0.187	0.094	0.000	0.000	0.081	0.102	0.098	0.064
180.0	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026

**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	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760	218.760
2.5	219.884	217.064	214.010	216.208	219.539	217.115	217.418	221.162	220.408	221.328
5.0	216.212	215.680	218.644	219.739	217.605	216.800	214.913	218.099	219.266	220.429
7.5	212.416	214.755	216.144	217.298	216.438	214.120	213.878	217.209	213.856	216.106
10.0	214.167	213.000	212.229	211.722	211.343	213.375	211.594	211.006	210.985	211.944
12.5	209.277	206.857	208.220	207.125	206.410	209.886	206.444	207.279	207.994	206.704
15.0	203.534	206.388	203.956	204.160	202.278	198.831	201.911	201.613	200.169	198.490
17.5	199.342	199.577	197.941	196.586	194.575	191.789	191.410	190.431	191.112	193.924
20.0	194.469	192.893	190.852	187.142	184.807	180.867	180.049	178.745	180.002	181.165
22.5	187.781	186.545	182.869	177.693	172.513	169.454	166.255	165.058	166.877	169.987
25.0	180.471	176.411	173.450	166.340	158.327	152.286	149.799	148.499	150.114	154.050
27.5	174.110	168.922	161.313	154.127	145.858	137.526	134.522	133.875	135.089	137.922

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LEDA2HT120-277V_P.IES

CANDELA TABULATION - (Cont.)

30.0	164.564	157.957	150.357	140.529	131.178	124.349	120.848	119.723	120.221	124.724
32.5	155.984	148.265	137.313	126.045	116.170	110.769	108.268	107.297	107.531	111.020
35.0	146.037	137.372	124.175	112.728	104.732	99.846	98.044	96.515	97.746	99.833
37.5	135.217	125.346	111.139	100.455	94.039	90.086	88.506	87.283	88.161	90.005
40.0	124.729	113.171	98.261	89.754	84.621	80.970	79.964	79.815	80.267	81.132
42.5	113.584	100.038	87.573	80.216	75.470	72.935	71.887	71.841	71.619	73.332
45.0	102.785	89.958	77.779	71.074	67.606	65.442	65.263	65.438	64.403	66.196
47.5	90.955	77.877	67.764	63.248	59.977	58.554	57.936	57.514	58.520	59.359
50.0	80.995	67.432	59.291	55.414	53.203	52.355	50.962	51.209	51.201	51.665
52.5	70.460	58.477	51.371	47.746	46.149	44.709	44.815	44.594	44.969	45.203
55.0	60.884	50.076	43.801	41.854	39.644	38.915	37.612	37.343	38.123	38.596
57.5	50.928	41.889	37.271	35.307	33.292	32.137	31.405	31.098	31.430	32.291
60.0	42.685	35.230	30.825	29.087	27.370	26.263	25.151	24.644	25.321	26.063
62.5	34.523	28.627	24.742	23.064	21.517	20.278	19.438	18.868	19.208	20.197
65.0	27.929	22.506	19.455	17.675	16.056	14.731	13.713	13.278	13.790	14.978
67.5	21.381	17.206	14.688	12.852	11.195	9.508	8.503	8.222	8.656	9.934
70.0	16.090	12.601	10.373	8.431	6.705	4.886	3.958	3.630	4.043	5.180
72.5	11.067	8.503	6.594	4.746	2.820	1.636	1.218	1.095	1.201	1.704
75.0	7.331	5.129	3.340	1.695	0.916	0.861	0.856	0.861	0.839	0.882
77.5	4.149	2.543	1.201	0.716	0.690	0.673	0.677	0.673	0.660	0.690
80.0	1.977	0.933	0.554	0.537	0.511	0.511	0.507	0.486	0.515	0.520
82.5	0.639	0.388	0.379	0.375	0.349	0.345	0.345	0.345	0.341	0.349
85.0	0.230	0.230	0.222	0.217	0.209	0.200	0.196	0.209	0.204	0.217
87.5	0.085	0.081	0.077	0.077	0.077	0.072	0.072	0.072	0.072	0.081
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.004
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.004
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004
110.0	0.000	0.000	0.000	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	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	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.013	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.013	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.013	0.009	0.017	0.004	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.017	0.013	0.017	0.009	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.034	0.021	0.021	0.017	0.004	0.009	0.000	0.000	0.004	0.000
152.5	0.017	0.021	0.026	0.034	0.021	0.013	0.009	0.009	0.017	0.017
155.0	0.030	0.051	0.047	0.051	0.017	0.043	0.017	0.013	0.030	0.030
157.5	0.055	0.077	0.034	0.051	0.047	0.030	0.043	0.038	0.026	0.021
160.0	0.064	0.089	0.060	0.047	0.034	0.043	0.051	0.034	0.034	0.038
162.5	0.068	0.047	0.064	0.060	0.047	0.060	0.051	0.043	0.043	0.060
165.0	0.072	0.081	0.034	0.077	0.047	0.051	0.055	0.072	0.068	0.043
167.5	0.102	0.064	0.043	0.021	0.043	0.068	0.047	0.051	0.055	0.064

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CANDELA TABULATION - (Cont.)

170.0	0.077	0.038	0.085	0.077	0.094	0.055	0.081	0.081	0.047	0.038
172.5	0.119	0.077	0.089	0.060	0.081	0.094	0.060	0.064	0.043	0.060
175.0	0.043	0.068	0.128	0.064	0.021	0.013	0.085	0.000	0.068	0.119
177.5	0.081	0.064	0.102	0.038	0.089	0.175	0.132	0.055	0.034	0.000
180.0	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026

Vert. Horizontal Angles

Angles	300	310	320	330	340	350	360
0.0	218.760	218.760	218.760	218.760	218.760	218.760	218.760
2.5	213.967	218.998	219.079	215.454	218.048	216.749	221.550
5.0	218.487	218.027	217.226	215.973	214.734	217.447	215.428
7.5	212.855	215.620	214.065	213.724	213.277	213.000	215.718
10.0	212.868	212.276	212.450	212.110	210.282	210.159	213.277
12.5	210.095	208.804	207.603	206.861	206.452	207.283	208.361
15.0	202.601	203.645	203.453	207.522	206.022	205.191	203.930
17.5	194.141	194.861	198.179	198.640	201.477	199.398	199.636
20.0	184.100	189.681	192.254	193.532	193.694	194.397	194.754
22.5	173.906	179.129	183.444	186.162	187.138	190.247	188.577
25.0	160.146	167.520	174.289	179.465	181.859	183.972	182.869
27.5	145.155	153.441	162.928	170.293	174.370	174.605	176.125
30.0	130.786	141.751	152.039	159.409	166.945	167.972	168.977
32.5	116.801	127.123	138.970	149.986	157.177	161.113	160.219
35.0	104.962	113.316	125.989	138.280	147.422	151.771	152.154
37.5	93.916	101.886	111.373	126.322	136.818	142.612	143.319
40.0	84.476	90.393	99.352	113.746	126.015	132.955	133.913
42.5	75.858	80.275	88.536	101.933	116.451	123.255	124.017
45.0	67.589	71.640	78.320	90.410	104.459	112.315	114.321
47.5	61.105	63.410	68.151	79.100	93.567	101.848	104.089
50.0	53.186	55.491	60.398	68.923	82.376	92.429	95.066
52.5	46.566	48.087	51.857	59.491	71.193	82.891	86.393
55.0	40.555	41.808	44.543	50.541	61.140	72.556	77.251
57.5	34.280	35.550	37.424	42.677	52.351	64.002	67.500
60.0	27.579	29.126	31.592	35.639	43.610	54.515	59.193
62.5	21.922	23.375	25.713	28.874	35.626	46.008	50.149
65.0	16.418	18.216	20.192	22.851	28.401	37.629	41.774
67.5	11.332	13.210	14.948	17.509	21.960	29.650	34.868
70.0	6.761	8.626	10.548	12.699	16.303	22.961	27.481
72.5	2.931	4.839	6.727	8.771	11.046	16.712	20.716
75.0	0.976	1.823	3.472	5.529	7.408	11.080	14.761
77.5	0.716	0.745	1.227	2.552	4.243	6.982	9.615
80.0	0.528	0.550	0.567	0.946	1.972	3.600	5.295
82.5	0.366	0.383	0.400	0.422	0.694	1.465	2.309
85.0	0.209	0.217	0.226	0.234	0.243	0.345	0.469
87.5	0.089	0.072	0.085	0.085	0.081	0.081	0.068
90.0	0.004	0.009	0.000	0.000	0.000	0.000	0.000
92.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.004	0.004	0.000	0.000	0.000	0.000	0.000
97.5	0.004	0.004	0.000	0.000	0.000	0.000	0.000
100.0	0.004	0.000	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	0.000	0.000	0.000	0.000	0.000
107.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000
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	0.004
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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	0.004
122.5	0.000	0.000	0.000	0.000	0.000	0.004	0.004
125.0	0.000	0.000	0.000	0.000	0.000	0.004	0.004
127.5	0.000	0.000	0.000	0.000	0.000	0.013	0.009
130.0	0.000	0.000	0.000	0.000	0.013	0.009	0.009
132.5	0.000	0.000	0.000	0.000	0.004	0.017	0.013
135.0	0.000	0.000	0.000	0.000	0.000	0.004	0.017
137.5	0.000	0.000	0.000	0.000	0.004	0.004	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.004
142.5	0.000	0.000	0.013	0.004	0.000	0.000	0.000
145.0	0.004	0.004	0.013	0.004	0.004	0.000	0.000
147.5	0.000	0.009	0.013	0.017	0.009	0.017	0.013
150.0	0.026	0.017	0.017	0.030	0.026	0.026	0.030
152.5	0.021	0.034	0.051	0.038	0.034	0.026	0.043
155.0	0.000	0.047	0.055	0.051	0.026	0.038	0.043
157.5	0.038	0.047	0.060	0.055	0.068	0.055	0.051
160.0	0.047	0.064	0.068	0.047	0.081	0.072	0.051
162.5	0.047	0.068	0.038	0.051	0.051	0.064	0.098
165.0	0.060	0.077	0.106	0.055	0.064	0.038	0.060
167.5	0.043	0.047	0.064	0.124	0.064	0.055	0.106
170.0	0.034	0.111	0.043	0.038	0.038	0.064	0.030
172.5	0.030	0.055	0.089	0.068	0.047	0.077	0.072
175.0	0.098	0.094	0.047	0.060	0.068	0.051	0.030
177.5	0.094	0.098	0.089	0.102	0.000	0.068	0.077
180.0	0.026	0.026	0.026	0.026	0.026	0.026	0.026

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	77.45	N.A.	21.10
0-30	154.37	N.A.	42.10
0-40	230.75	N.A.	63.00
0-60	338.48	N.A.	92.40
0-80	365.87	N.A.	99.90
0-90	366.31	N.A.	100.00
10-90	345.75	N.A.	94.40
20-40	153.30	N.A.	41.80
20-50	216.93	N.A.	59.20
40-70	129.78	N.A.	35.40
60-80	27.38	N.A.	7.50
70-80	5.33	N.A.	1.50
80-90	0.44	N.A.	0.10
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	0.01	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.05	N.A.	0.00
0-180	366.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.56
10-20	56.89
20-30	76.92
30-40	76.38
40-50	63.63
50-60	44.10
60-70	22.05
70-80	5.33
80-90	0.44
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	0.02
160-170	0.02
170-180	0.01

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	74	81	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

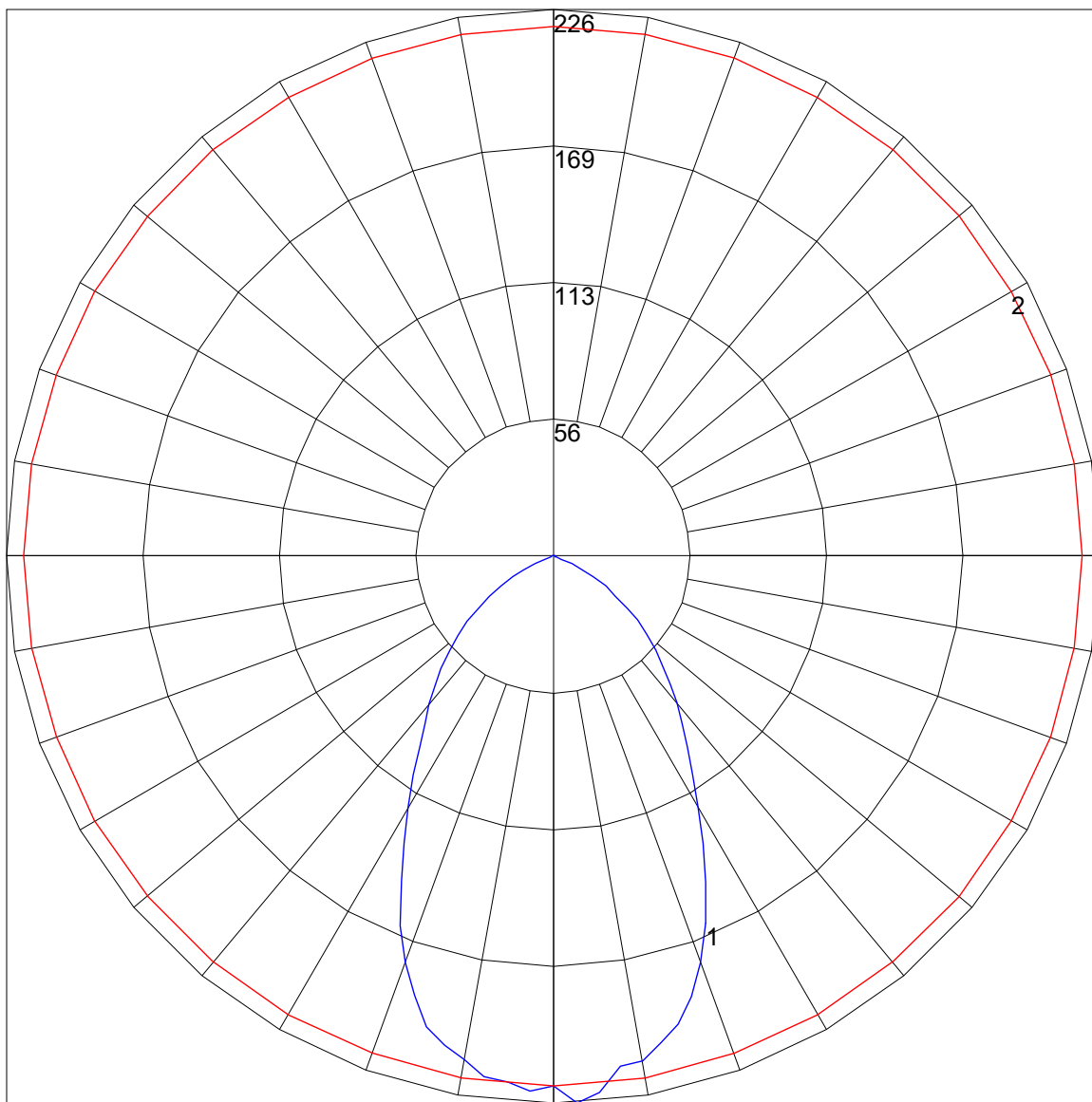
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UGR TABLE - CORRECTED

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	9.6	11.0	9.9	11.3	11.6	5.9	7.3	6.3	7.6	7.9
	3H	10.6	11.8	11.0	12.2	12.5	6.0	7.3	6.4	7.6	8.0
	4H	10.8	11.9	11.2	12.3	12.7	6.0	7.1	6.4	7.5	7.8
	6H	10.8	11.9	11.2	12.3	12.7	5.9	6.9	6.3	7.3	7.7
	8H	10.8	11.8	11.2	12.2	12.6	5.9	6.8	6.3	7.2	7.6
	12H	10.8	11.7	11.2	12.1	12.5	5.8	6.8	6.2	7.1	7.6
4H	2H	9.5	10.6	9.9	11.0	11.4	6.1	7.2	6.5	7.6	8.0
	3H	10.6	11.5	11.0	11.9	12.3	6.3	7.2	6.7	7.6	8.0
	4H	10.8	11.6	11.2	12.0	12.5	6.2	7.0	6.6	7.4	7.9
	6H	10.8	11.5	11.3	12.0	12.5	6.1	6.8	6.6	7.3	7.7
	8H	10.8	11.5	11.2	11.9	12.4	6.0	6.7	6.5	7.2	7.6
	12H	10.8	11.3	11.2	11.8	12.3	6.0	6.6	6.5	7.1	7.6
8H	4H	10.6	11.3	11.1	11.8	12.2	6.1	6.8	6.6	7.2	7.7
	6H	10.7	11.2	11.2	11.7	12.2	6.0	6.6	6.5	7.1	7.5
	8H	10.7	11.1	11.2	11.7	12.1	6.0	6.4	6.5	7.0	7.5
	12H	10.6	11.0	11.1	11.5	12.1	5.9	6.3	6.4	6.8	7.4
12H	4H	10.6	11.2	11.1	11.7	12.2	6.1	6.7	6.5	7.1	7.6
	6H	10.6	11.1	11.2	11.6	12.1	6.0	6.5	6.5	6.9	7.5
	8H	10.6	11.0	11.1	11.5	12.1	5.9	6.3	6.4	6.8	7.4

Maximum UGR = 12.7

POLAR GRAPH



Maximum Candela = 225.967 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)