



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTR66.181.19.0039.15 EP-LUNA-TD7090-5_IESNA2002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTR66.181.19.0039.15
 [TESTLAB] BEST Test Service Shenzhen Co.,Ltd
 [TESTDATE] 2020-11-24
 [ISSUEDATE] 2020-11-24 10:21:29
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] AC240V/50Hz
 [MANUFAC] EMERALD PLANET ENVIRONMENTAL PTY LTD
 [LAMPCAT] EP-LUNA-TD7090-5
 [LAMP] AC240V/50Hz 5W 3000K

CHARACTERISTICS

Lumens Per Lamp	559.82 (1 lamp)
Total Lamp Lumens	559.82
Luminaire Lumens	560
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	4.9439
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.06 m (Diameter)
Luminous Width (90-270)	0.06 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	69539	67736	69394
55	54206	52214	53348
65	40302	38082	38592
75	28884	26078	25975
85	23961	20098	18449

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	281.977	281.977	281.977	281.977	281.977	281.977	281.977	281.977	281.977	281.977
1	281.880	281.640	281.580	281.540	282.260	281.790	281.960	281.990	281.780	281.790
2	281.530	281.430	281.430	281.250	281.720	281.930	281.810	281.840	281.690	281.950
3	281.250	281.250	281.220	280.600	281.660	281.570	281.360	281.420	281.200	281.270
4	280.530	280.440	280.260	280.200	281.390	280.870	280.890	280.650	280.450	280.630
5	280.170	279.790	279.610	279.520	280.620	280.300	280.030	279.880	279.850	280.080
6	279.210	278.770	278.700	278.550	279.640	279.350	279.130	279.020	279.110	278.900
7	278.050	277.810	277.780	277.100	278.530	277.990	277.900	277.900	277.900	277.930
8	276.800	276.240	276.320	275.900	277.350	277.040	276.780	276.710	276.920	276.660
9	275.580	275.300	274.860	274.500	276.250	275.740	275.570	275.310	275.570	275.450
10	274.000	273.680	273.470	272.570	274.730	274.310	273.860	273.690	273.540	273.680
11	272.060	272.090	271.560	270.750	272.960	272.600	272.270	272.210	271.940	272.030
12	270.200	269.970	269.810	268.990	271.430	270.720	270.330	270.000	269.950	270.190
13	268.320	267.940	267.490	266.770	269.380	268.650	268.170	267.750	267.930	268.260
14	266.060	265.730	265.330	264.440	267.230	266.500	265.830	265.750	265.870	266.080
15	263.640	263.390	262.780	262.000	264.730	264.280	263.450	263.470	263.570	263.500
16	261.450	261.000	260.440	259.310	262.330	261.890	261.350	261.020	261.020	261.110
17	258.770	258.640	257.490	256.890	259.940	259.310	258.760	258.530	258.530	258.580
18	256.080	255.790	254.790	253.990	257.340	256.480	256.040	255.720	255.640	256.000
19	253.300	252.840	251.980	251.090	254.440	253.880	252.780	252.700	252.770	253.190
20	250.380	249.920	249.000	248.040	251.400	250.660	249.830	249.470	249.660	250.020
21	246.920	246.560	245.770	244.910	248.350	247.530	246.740	246.380	246.380	246.720
22	243.600	242.980	242.420	241.220	245.210	244.070	243.200	242.680	242.780	243.380
23	240.100	239.500	238.480	237.520	241.640	240.370	239.440	238.970	239.050	239.710
24	236.660	235.940	234.580	233.490	237.820	236.450	235.450	234.940	235.140	235.650
25	232.860	232.170	230.780	229.250	233.720	232.400	231.560	230.540	231.230	231.750
26	228.790	227.740	226.420	224.710	229.490	228.150	226.910	226.260	226.560	227.500
27	224.520	223.250	222.010	220.220	225.020	223.530	222.440	221.800	222.040	223.120
28	219.940	218.900	217.410	215.600	220.350	218.970	217.740	217.280	217.290	218.290
29	214.990	213.790	212.460	210.350	215.630	214.170	212.790	212.400	212.420	213.660
30	210.160	209.030	207.190	205.480	210.590	209.090	207.800	207.330	207.620	208.670
31	205.140	204.040	202.370	200.330	205.470	204.010	202.720	202.160	202.570	203.710
32	200.170	198.850	197.050	195.040	200.640	198.900	197.580	196.920	197.330	198.530
33	194.940	193.570	191.730	189.630	195.420	193.610	192.360	191.730	192.070	193.370
34	189.700	188.170	186.260	184.300	189.950	188.180	186.790	186.040	186.570	187.910
35	184.190	182.720	181.150	178.760	184.480	182.760	181.220	180.360	181.070	182.450
36	178.700	177.310	175.490	173.400	179.010	177.340	175.650	175.070	175.560	176.990
37	173.250	171.840	169.910	167.970	173.550	171.660	170.280	169.580	170.050	171.530
38	167.850	166.470	164.390	162.420	167.920	166.120	164.800	164.120	164.370	166.040
39	162.420	160.910	158.990	156.960	162.500	160.620	159.140	158.470	159.000	160.390
40	156.780	155.400	153.390	151.350	156.930	155.040	153.640	152.970	153.440	155.000
41	151.560	149.850	148.090	145.990	151.400	149.610	148.000	147.380	147.830	149.420
42	145.850	144.520	142.700	140.460	145.890	144.090	142.550	141.930	142.480	143.900
43	140.530	138.980	137.120	135.090	140.480	138.630	137.090	136.330	136.880	138.390
44	135.310	133.740	131.930	129.960	135.080	133.240	131.560	130.920	131.390	133.090
45	129.970	128.530	126.600	124.600	129.700	127.900	126.290	125.670	126.200	127.690
46	124.830	123.340	121.270	119.340	124.470	122.590	121.120	120.460	120.910	122.510
47	119.660	118.200	116.220	114.300	119.360	117.480	115.950	115.440	115.740	117.360
48	114.640	113.220	111.310	109.350	114.160	112.240	110.660	110.110	110.600	112.150
49	109.770	108.400	106.500	104.560	109.120	107.220	105.770	105.140	105.610	107.250
50	104.840	103.350	101.600	99.680	104.210	102.320	100.810	100.170	100.680	102.260
51	100.080	98.660	96.880	95.070	99.420	97.380	96.010	95.410	95.860	97.520
52	95.270	94.000	92.220	90.350	94.580	92.710	91.330	90.720	91.260	92.800
53	90.810	89.500	87.720	85.860	89.920	88.110	86.700	86.130	86.670	88.210
54	86.370	85.110	83.360	81.070	85.410	83.570	82.200	81.590	82.210	83.700
55	82.180	80.890	79.160	77.060	80.880	79.240	77.750	77.190	77.760	79.260
56	78.040	76.670	74.960	73.080	76.750	74.840	73.560	73.020	73.590	75.100
57	73.910	72.460	70.760	68.960	72.510	70.660	69.380	68.960	69.430	70.910
58	69.780	68.500	66.890	65.070	68.430	66.610	65.330	64.940	65.450	66.920

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CANDELA TABULATION - (Cont.)

59	65.860	64.670	63.080	61.230	64.540	62.740	61.420	61.030	61.570	63.020
60	62.170	60.850	59.340	57.550	60.610	58.840	57.590	57.230	57.770	59.180
61	58.510	57.320	55.760	53.990	56.880	55.170	53.980	53.580	54.120	55.470
62	54.950	53.810	52.280	50.500	53.230	51.610	50.430	50.010	50.570	51.920
63	51.570	50.440	48.960	47.210	49.740	48.090	46.970	46.620	47.240	48.540
64	48.240	47.150	45.680	43.890	46.350	44.760	43.660	43.350	43.930	45.280
65	45.020	43.970	42.540	40.810	43.110	41.550	40.500	40.160	40.740	41.950
66	42.000	40.940	39.530	37.810	40.010	38.460	37.490	37.170	37.700	38.940
67	39.040	38.010	36.640	34.960	37.000	35.510	34.550	34.280	34.850	35.960
68	36.270	35.300	33.970	32.260	34.170	32.720	31.770	31.560	32.130	33.220
69	33.550	32.560	31.240	29.610	31.400	30.040	29.130	28.930	29.430	30.510
70	30.960	30.030	28.730	27.190	28.830	27.500	26.640	26.420	26.880	27.960
71	28.500	27.570	26.310	24.760	26.300	25.070	24.240	24.030	24.530	25.540
72	26.160	25.290	24.020	22.540	23.970	22.760	22.010	21.830	22.260	23.190
73	23.940	23.080	21.870	20.420	21.750	20.610	19.990	19.820	20.220	21.050
74	21.780	20.980	19.780	18.410	19.760	18.670	17.970	17.800	18.190	19.080
75	19.760	19.000	17.840	16.510	17.770	16.720	15.960	15.790	16.160	17.110
76	17.780	17.070	15.970	14.710	15.790	14.790	14.180	14.020	14.370	15.140
77	15.960	15.270	14.220	13.070	14.020	13.110	12.560	12.410	12.700	13.400
78	14.210	13.550	12.580	11.520	12.410	11.580	11.070	10.950	11.190	11.820
79	12.550	11.970	11.100	10.170	10.820	10.180	9.790	9.680	9.880	10.400
80	11.050	10.550	9.820	9.020	9.490	9.030	8.770	8.690	8.840	9.250
81	9.750	9.360	8.770	7.930	8.460	8.010	7.860	7.750	7.900	8.290
82	8.710	8.320	7.770	6.850	7.450	6.950	6.870	6.730	6.870	7.270
83	7.670	7.290	6.780	5.760	6.390	5.860	5.820	5.650	5.790	6.200
84	6.630	6.250	5.690	4.680	5.310	4.780	4.740	4.600	4.720	5.100
85	5.520	5.160	4.630	3.620	4.250	3.740	3.700	3.560	3.670	4.060
86	4.440	4.080	3.560	2.660	3.190	2.730	2.660	2.530	2.630	2.990
87	3.360	3.030	2.520	1.830	2.220	1.930	1.670	1.530	1.630	1.980
88	2.320	2.000	1.510	0.890	1.490	1.020	0.710	0.580	0.680	1.000
89	1.320	1.010	0.540	0.110	0.580	0.180	0.040	0.010	0.020	0.150
90	0.370	0.150	0.020	0.010	0.010	0.000	0.000	0.000	0.000	0.000
91	0.010	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
101	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.020	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119	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.)

120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.010	0.000	0.000
135	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
137	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139	0.000	0.010	0.010	0.010	0.000	0.000	0.010	0.010	0.000	0.000
140	0.000	0.000	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.000
141	0.000	0.000	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.010
142	0.000	0.000	0.010	0.000	0.000	0.010	0.010	0.000	0.000	0.010
143	0.000	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.010	0.010
144	0.010	0.010	0.000	0.000	0.010	0.010	0.010	0.010	0.000	0.010
145	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
146	0.000	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010
147	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010
148	0.000	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010
149	0.020	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
150	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010
151	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010
152	0.000	0.010	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010
153	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
154	0.000	0.010	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010
155	0.020	0.010	0.010	0.000	0.000	0.000	0.010	0.010	0.010	0.010
156	0.010	0.010	0.010	0.000	0.000	0.000	0.010	0.010	0.010	0.010
157	0.010	0.010	0.010	0.000	0.000	0.000	0.010	0.010	0.010	0.010
158	0.010	0.000	0.010	0.010	0.000	0.000	0.010	0.010	0.010	0.010
159	0.010	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010
160	0.010	0.010	0.000	0.010	0.000	0.010	0.010	0.000	0.010	0.010
161	0.010	0.010	0.010	0.000	0.000	0.000	0.010	0.000	0.010	0.010
162	0.010	0.000	0.010	0.000	0.000	0.000	0.010	0.010	0.010	0.010
163	0.010	0.010	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010
164	0.020	0.010	0.010	0.010	0.000	0.000	0.010	0.010	0.000	0.010
165	0.010	0.010	0.010	0.000	0.000	0.000	0.010	0.020	0.010	0.010
166	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.010	0.010	0.010
167	0.010	0.010	0.010	0.000	0.000	0.010	0.010	0.000	0.010	0.010
168	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
169	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.010	0.000
170	0.010	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.010	0.000
171	0.010	0.010	0.000	0.010	0.000	0.010	0.000	0.000	0.010	0.000
172	0.010	0.010	0.020	0.000	0.000	0.000	0.010	0.000	0.010	0.010
173	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.010	0.010
174	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000
175	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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.)

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	281.977	281.977	281.977	281.977	281.977	281.977	281.977
1	281.960	281.840	281.960	281.960	281.960	281.730	281.880
2	281.690	281.750	281.820	281.640	281.790	281.690	281.530
3	281.210	281.360	281.050	281.520	281.230	281.400	281.250
4	280.750	280.660	280.410	281.130	280.860	280.860	280.530
5	280.150	279.980	279.670	279.920	280.090	280.060	280.170
6	279.200	279.490	278.600	278.820	279.000	279.160	279.210
7	278.200	278.300	277.350	277.990	277.960	278.090	278.050
8	277.010	277.140	276.000	276.710	276.890	276.860	276.800
9	275.670	275.860	274.570	274.900	275.340	275.460	275.580
10	274.190	274.460	272.790	273.610	273.590	273.710	274.000
11	272.180	272.750	271.140	271.680	271.910	272.070	272.060
12	270.670	270.760	269.260	269.620	270.030	270.390	270.200
13	268.590	268.890	267.140	267.640	268.030	268.300	268.320
14	266.470	266.720	264.630	265.400	266.150	266.060	266.060
15	264.080	264.620	262.460	262.860	263.580	263.600	263.640
16	261.770	262.280	259.800	260.460	260.940	261.210	261.450
17	259.060	259.670	256.930	257.870	258.310	258.770	258.770
18	256.540	256.990	254.470	255.120	255.800	255.970	256.080
19	253.710	254.200	251.250	252.320	252.530	253.080	253.300
20	250.430	251.410	248.430	249.240	249.920	250.240	250.380
21	247.510	248.200	244.900	245.900	246.580	247.190	246.920
22	244.240	244.990	241.770	242.580	243.380	243.730	243.600
23	241.050	241.910	238.240	239.100	239.940	240.300	240.100
24	237.320	238.320	234.470	235.450	236.390	236.710	236.660
25	233.070	234.570	230.830	231.790	232.620	232.990	232.860
26	228.880	230.380	226.430	227.860	228.610	228.970	228.790
27	224.480	226.040	222.260	223.510	224.430	224.780	224.520
28	219.860	221.690	217.580	218.790	219.970	220.280	219.940
29	215.340	217.200	213.000	214.330	215.130	215.770	214.990
30	210.410	212.630	207.980	209.500	210.400	211.170	210.160
31	205.490	207.610	202.840	204.510	205.380	205.820	205.140
32	200.630	202.750	197.800	199.390	200.290	200.640	200.170
33	195.290	197.360	192.720	194.360	195.030	195.450	194.940
34	189.910	192.340	187.230	188.970	189.880	190.250	189.700
35	184.530	186.880	181.920	183.520	184.600	184.790	184.190
36	179.150	181.410	176.490	178.040	179.120	179.310	178.700
37	173.700	175.940	170.990	172.920	173.580	173.880	173.250
38	168.240	170.510	165.530	167.270	168.180	168.490	167.850
39	162.660	164.960	160.110	161.860	162.820	162.980	162.420
40	157.150	159.510	154.610	156.350	157.270	157.530	156.780
41	151.630	154.170	149.260	151.020	151.890	152.080	151.560
42	146.210	148.650	143.830	145.590	146.590	146.560	145.850
43	140.740	143.210	138.430	140.160	140.960	141.240	140.530
44	135.310	137.850	133.120	135.000	135.790	135.750	135.310
45	130.080	132.580	127.900	129.670	130.510	130.510	129.970
46	124.730	127.340	122.720	124.440	125.290	125.520	124.830
47	119.600	122.160	117.790	119.260	120.210	120.310	119.660
48	114.540	117.050	112.640	114.280	115.190	115.360	114.640
49	109.490	112.030	107.850	109.450	110.380	110.360	109.770
50	104.660	107.060	103.010	104.540	105.350	105.500	104.840
51	99.730	102.320	98.190	99.700	100.640	100.670	100.080
52	95.060	97.570	93.610	95.070	95.960	95.970	95.270
53	90.510	92.930	89.090	90.670	91.320	91.450	90.810
54	86.000	88.380	84.730	86.110	87.000	87.010	86.370
55	81.490	83.880	80.500	81.600	82.640	82.820	82.180
56	77.250	79.660	76.270	77.520	78.520	78.670	78.040
57	73.100	75.380	72.040	73.460	74.400	74.520	73.910

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CANDELA TABULATION - (Cont.)

58	68.940	71.320	68.120	69.430	70.280	70.380	69.780
59	65.070	67.350	64.230	65.530	66.340	66.340	65.860
60	61.220	63.470	60.460	61.850	62.590	62.650	62.170
61	57.500	59.690	56.860	58.150	58.910	59.010	58.510
62	53.890	56.050	53.320	54.600	55.370	55.460	54.950
63	50.430	52.530	49.970	51.240	51.950	52.090	51.570
64	47.060	49.100	46.600	47.900	48.590	48.740	48.240
65	43.800	45.840	43.430	44.690	45.350	45.550	45.020
66	40.660	42.660	40.350	41.620	42.290	42.440	42.000
67	37.700	39.620	37.410	38.660	39.310	39.440	39.040
68	34.830	36.670	34.610	35.780	36.550	36.670	36.270
69	32.080	33.820	31.890	33.080	33.790	33.900	33.550
70	29.410	31.150	29.340	30.520	31.160	31.340	30.960
71	26.920	28.570	26.860	28.000	28.680	28.850	28.500
72	24.590	26.110	24.480	25.580	26.320	26.460	26.160
73	22.320	23.830	22.260	23.350	24.030	24.250	23.940
74	20.280	21.610	20.190	21.210	21.860	22.090	21.780
75	18.240	19.600	18.160	19.170	19.800	20.070	19.760
76	16.200	17.600	16.250	17.190	17.850	18.070	17.780
77	14.420	15.600	14.450	15.360	15.990	16.240	15.960
78	12.750	13.860	12.770	13.640	14.240	14.450	14.210
79	11.220	12.210	11.240	12.020	12.580	12.790	12.550
80	9.910	10.750	9.820	10.590	11.090	11.260	11.050
81	8.830	9.500	8.730	9.400	9.780	9.920	9.750
82	7.860	8.450	7.580	8.250	8.740	8.890	8.710
83	6.810	7.340	6.440	7.110	7.690	7.830	7.670
84	5.700	6.180	5.310	5.970	6.650	6.770	6.630
85	4.630	5.030	4.210	4.830	5.550	5.660	5.520
86	3.550	3.900	3.140	3.740	4.440	4.570	4.440
87	2.520	2.840	2.110	2.680	3.360	3.500	3.360
88	1.510	1.980	1.370	1.810	2.300	2.440	2.320
89	0.550	1.100	0.450	0.930	1.310	1.440	1.320
90	0.010	0.220	0.010	0.120	0.350	0.460	0.370
91	0.000	0.010	0.010	0.010	0.010	0.010	0.010
92	0.000	0.000	0.000	0.010	0.000	0.000	0.000
93	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139	0.010	0.000	0.000	0.000	0.000	0.000	0.000
140	0.010	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142	0.000	0.010	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.010	0.000	0.010
145	0.010	0.000	0.000	0.000	0.010	0.000	0.000
146	0.010	0.000	0.000	0.000	0.010	0.010	0.000
147	0.010	0.010	0.000	0.010	0.010	0.010	0.010
148	0.010	0.000	0.000	0.010	0.010	0.010	0.000
149	0.010	0.000	0.000	0.000	0.010	0.010	0.020
150	0.010	0.010	0.010	0.000	0.010	0.010	0.000
151	0.010	0.010	0.000	0.000	0.010	0.010	0.000
152	0.000	0.000	0.000	0.000	0.010	0.010	0.000
153	0.010	0.000	0.010	0.010	0.000	0.010	0.000
154	0.010	0.000	0.000	0.010	0.010	0.010	0.000
155	0.010	0.000	0.010	0.000	0.010	0.010	0.020
156	0.010	0.000	0.000	0.000	0.000	0.000	0.010
157	0.010	0.000	0.000	0.010	0.010	0.020	0.010
158	0.010	0.000	0.000	0.000	0.000	0.010	0.010
159	0.010	0.000	0.000	0.010	0.000	0.000	0.010
160	0.000	0.000	0.000	0.000	0.010	0.000	0.010
161	0.010	0.000	0.010	0.010	0.010	0.010	0.010
162	0.010	0.000	0.000	0.000	0.010	0.000	0.010
163	0.010	0.000	0.000	0.010	0.000	0.010	0.010
164	0.010	0.000	0.000	0.000	0.010	0.010	0.020
165	0.000	0.000	0.000	0.010	0.020	0.020	0.010
166	0.000	0.000	0.000	0.000	0.010	0.020	0.010
167	0.000	0.000	0.010	0.020	0.010	0.010	0.010
168	0.010	0.050	0.010	0.010	0.010	0.010	0.010
169	0.000	0.010	0.000	0.010	0.010	0.010	0.010
170	0.000	0.000	0.000	0.010	0.000	0.010	0.010
171	0.000	0.010	0.000	0.000	0.010	0.010	0.010
172	0.000	0.000	0.000	0.000	0.000	0.010	0.010
173	0.000	0.000	0.000	0.000	0.000	0.010	0.000
174	0.000	0.000	0.000	0.000	0.010	0.010	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178	0.000	0.010	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

180	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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IES INDOOR REPORT**PHOTOMETRIC FILENAME : BTR66.181.19.0039.15 EP-LUNA-TD7090-5_IESNA2002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	100.71	18.00	18.00
0-30	207.08	37.00	37.00
0-40	321.13	57.40	57.40
0-60	492.28	87.90	87.90
0-80	554.78	99.10	99.10
0-90	559.80	100.00	100.00
10-90	533.27	95.30	95.30
20-40	220.42	39.40	39.40
20-50	319.52	57.10	57.10
40-70	214.22	38.30	38.30
60-80	62.50	11.20	11.20
70-80	19.43	3.50	3.50
80-90	5.02	0.90	0.90
90-110	0.01	0.00	0.00
90-120	0.01	0.00	0.00
90-130	0.01	0.00	0.00
90-150	0.01	0.00	0.00
90-180	0.02	0.00	0.00
110-180	0.01	0.00	0.00
0-180	559.82	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.53
10-20	74.18
20-30	106.38
30-40	114.05
40-50	99.09
50-60	72.06
60-70	43.07
70-80	19.43
80-90	5.02
90-100	0.01
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

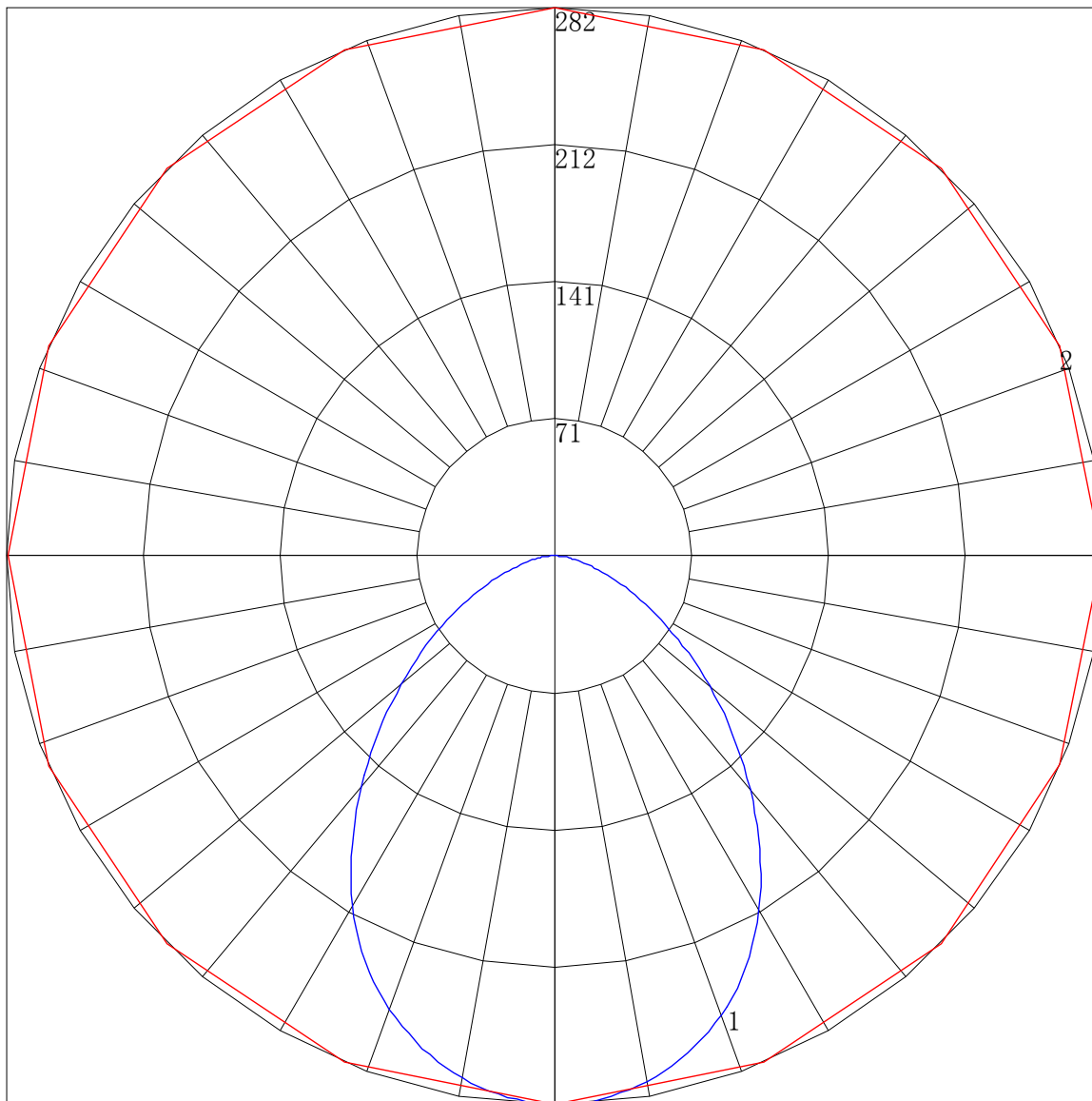
Effective Floor Cavity Reflectance 0.20

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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

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POLAR GRAPH



Maximum Candela = 282.26 Located At Horizontal Angle = 90, Vertical Angle = 1

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)