



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTR66.181.19.0039.16 EP-LUNA-TD7090-10_IESNA2002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTR66.181.19.0039.16
 [TESTLAB] BEST Test Service Shenzhen Co.,Ltd
 [TESTDATE] 2020-11-23
 [ISSUEDATE] 2020-11-24 10:23:42
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] AC240V/50Hz
 [MANUFAC] EMERALD PLANET ENVIRONMENTAL PTY LTD
 [LAMPCAT] EP-LUNA-TD7090-10
 [LAMP] AC240V/50Hz 10W 3000K

CHARACTERISTICS

Lumens Per Lamp	882.54 (1 lamp)
Total Lamp Lumens	882.54
Luminaire Lumens	883
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	9.414
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.18
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	107816	103723	107184
55	83762	80220	82845
65	62351	58591	58940
75	44832	38473	33518
85	38243	27564	15757

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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	449.329	449.329	449.329	449.329	449.329	449.329	449.329	449.329	449.329	449.329
1	449.180	449.000	448.850	448.700	449.410	449.500	449.520	449.590	449.140	449.680
2	449.020	448.280	448.130	448.100	449.160	448.860	448.810	448.950	448.850	448.960
3	448.030	447.600	447.300	446.860	448.380	448.260	448.410	448.440	447.990	448.500
4	447.020	446.520	446.040	445.440	447.450	447.130	447.340	447.190	446.980	447.460
5	445.550	445.010	444.390	444.020	446.260	446.020	445.660	445.790	446.150	446.380
6	444.040	443.440	442.520	441.890	444.330	444.490	444.010	444.660	444.940	444.850
7	442.170	441.570	440.550	439.740	442.630	442.230	442.120	442.130	442.840	443.500
8	440.210	439.010	438.200	437.330	440.310	440.220	440.070	440.370	440.780	441.420
9	437.510	436.770	435.780	434.650	438.000	437.650	437.470	437.620	438.790	439.270
10	434.540	433.490	432.820	431.350	435.080	434.900	434.980	435.370	435.850	436.600
11	431.930	430.840	429.590	427.990	432.520	431.690	432.410	432.680	433.330	433.970
12	428.640	427.520	425.940	424.700	428.920	428.630	428.810	429.310	430.040	430.550
13	425.410	424.000	422.110	420.700	425.480	424.880	424.890	425.910	426.440	427.520
14	421.540	420.150	418.120	416.940	421.780	421.320	421.700	422.350	422.970	423.690
15	417.340	415.740	414.540	412.920	417.560	417.430	417.570	418.250	419.050	420.050
16	413.410	411.570	410.080	408.450	413.360	413.260	413.500	414.080	415.110	416.420
17	409.080	407.110	405.370	403.650	408.970	408.550	409.030	409.790	410.440	411.920
18	404.170	402.690	400.560	398.830	404.360	404.030	404.550	405.230	406.170	407.540
19	399.480	397.710	395.360	393.570	399.420	399.200	399.270	400.160	401.430	402.750
20	394.220	392.530	390.200	388.070	394.440	394.000	393.910	394.820	396.390	398.030
21	388.840	387.180	384.990	382.370	388.960	388.480	388.760	389.700	390.850	392.790
22	383.690	381.520	379.080	376.310	383.180	382.390	382.390	383.740	385.140	387.210
23	377.900	375.520	372.910	369.760	376.520	375.830	375.890	377.380	379.060	381.150
24	372.110	369.150	365.850	362.980	370.240	369.180	369.690	370.530	372.600	374.950
25	365.630	362.260	359.190	355.610	363.540	362.000	362.150	363.740	366.110	368.420
26	358.770	355.330	351.610	347.840	355.770	354.850	354.520	356.470	358.820	361.390
27	351.680	348.070	343.860	340.380	348.290	347.620	347.620	348.950	351.480	354.380
28	344.670	340.440	336.160	332.780	340.920	339.730	339.990	341.300	344.150	346.980
29	336.570	332.630	328.020	324.330	333.080	332.200	332.170	333.380	335.980	339.440
30	328.840	324.430	319.910	316.610	325.100	324.160	324.140	325.470	327.970	331.780
31	320.640	316.180	311.680	308.410	316.840	315.950	316.070	317.120	319.800	323.580
32	312.280	307.880	303.550	299.890	308.690	307.880	307.580	308.780	311.480	315.470
33	303.870	299.230	294.970	291.460	300.580	299.590	299.160	300.270	303.000	307.190
34	295.360	291.070	286.300	283.010	292.010	291.280	290.680	291.600	294.520	298.400
35	286.950	282.580	277.840	274.490	284.030	282.760	282.130	282.850	285.810	290.510
36	278.090	273.710	269.060	265.820	275.400	274.210	273.700	274.240	277.000	281.760
37	269.770	265.120	260.650	257.470	266.740	265.680	264.980	265.640	268.040	273.160
38	260.890	256.330	251.960	248.990	258.500	257.350	256.310	257.120	259.550	264.380
39	252.000	247.620	243.470	240.270	250.110	248.530	247.610	248.250	250.770	255.680
40	243.530	239.180	235.130	232.230	241.530	240.210	239.100	239.740	242.150	247.040
41	235.000	230.630	226.680	223.750	233.050	231.980	230.630	230.930	233.560	238.510
42	226.410	222.210	218.350	215.560	224.840	223.450	221.990	222.570	224.800	229.770
43	218.150	213.680	209.840	207.340	216.740	215.070	213.840	213.780	216.390	221.390
44	209.590	205.720	201.940	199.330	208.490	206.820	205.600	205.540	208.030	212.910
45	201.510	197.240	193.860	191.290	200.330	199.100	197.350	197.310	199.620	204.580
46	193.330	189.550	186.040	183.620	192.430	190.910	189.100	189.090	191.350	196.370
47	185.510	181.740	178.350	175.820	184.540	182.710	180.850	180.870	183.090	188.160
48	177.500	173.820	170.640	168.250	176.650	174.490	172.920	172.690	175.250	179.950
49	169.880	166.350	163.150	160.810	168.910	166.860	165.250	164.910	167.560	172.040
50	162.140	158.820	155.720	153.470	161.260	159.290	157.460	157.240	159.880	164.580
51	154.960	151.700	148.680	146.400	154.030	151.770	149.920	149.810	152.200	156.830
52	147.710	144.590	141.620	139.370	146.720	144.550	142.540	142.420	144.860	149.510
53	140.660	137.510	134.760	132.560	139.430	137.110	135.390	135.240	137.540	142.080
54	133.800	130.770	128.120	125.840	132.520	130.030	128.240	128.350	130.610	135.100
55	126.990	124.050	121.620	119.380	125.600	123.170	121.200	121.340	123.570	128.060
56	120.500	117.740	115.010	112.930	118.950	116.450	114.520	114.680	116.960	121.330
57	114.150	111.480	109.060	106.730	112.490	109.840	108.110	108.180	110.550	114.660
58	107.940	105.280	102.990	100.680	106.100	103.400	101.740	101.790	104.160	108.320

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CANDELA TABULATION - (Cont.)

59	102.010	99.430	97.030	94.800	99.800	97.140	95.490	95.580	97.950	102.190
60	96.100	93.650	91.490	89.090	93.790	90.940	89.400	89.600	91.940	95.860
61	90.530	88.160	85.910	83.700	87.870	85.060	83.500	83.880	86.170	90.070
62	85.070	82.890	80.720	78.300	82.120	79.310	77.780	78.160	80.430	84.290
63	79.920	77.620	75.530	72.910	76.500	73.770	72.250	72.770	75.040	78.780
64	74.790	72.360	70.340	67.790	71.220	68.380	67.000	67.460	69.740	73.430
65	69.650	67.570	65.450	62.800	65.840	63.140	61.820	62.350	64.590	68.230
66	64.880	62.910	60.760	58.100	60.970	58.220	57.010	57.570	59.780	63.250
67	60.310	58.340	56.300	53.480	55.960	53.410	52.250	52.830	54.950	58.340
68	56.050	54.030	51.890	49.090	51.180	48.820	47.760	48.470	50.540	53.790
69	51.780	49.900	47.690	44.790	46.430	44.250	43.450	44.130	46.180	49.340
70	47.840	45.980	43.740	40.680	41.920	39.940	39.480	40.090	42.080	45.160
71	44.000	42.090	39.810	36.730	37.610	35.690	35.510	36.220	38.120	41.060
72	40.440	38.510	36.160	32.970	33.600	31.760	31.980	32.560	34.400	37.280
73	36.980	35.100	32.700	29.460	29.820	27.980	28.640	29.160	30.970	33.640
74	33.710	31.810	29.370	26.220	26.240	24.570	25.490	26.010	27.680	30.240
75	30.670	28.750	26.320	23.220	22.930	21.550	22.510	23.110	24.640	27.040
76	27.640	25.750	23.380	20.380	20.400	19.150	20.010	20.660	21.830	24.060
77	24.830	22.950	20.710	17.720	17.880	16.750	17.500	18.220	19.540	21.330
78	22.140	20.350	18.230	15.350	15.370	14.360	15.020	15.800	17.250	19.090
79	19.600	17.910	16.030	13.380	13.540	12.530	13.290	14.130	14.970	16.840
80	17.240	15.770	14.280	11.760	11.810	10.830	11.810	12.700	13.430	14.620
81	15.200	14.060	12.780	10.150	10.110	9.140	10.230	11.170	11.940	13.090
82	13.610	12.600	11.250	8.640	8.350	7.390	8.610	9.530	10.280	11.510
83	12.110	11.010	9.610	7.130	6.610	5.680	7.000	7.870	8.590	9.810
84	10.470	9.330	7.980	5.630	4.900	4.220	5.490	6.210	6.910	8.110
85	8.810	7.680	6.350	4.250	3.630	3.090	4.050	4.590	5.270	6.440
86	7.150	6.040	4.720	2.890	2.600	2.070	2.620	3.000	3.670	4.780
87	5.500	4.430	3.160	1.570	1.580	1.070	1.240	1.470	2.080	3.190
88	3.900	2.850	1.590	0.340	0.630	0.180	0.120	0.210	0.620	1.620
89	2.340	1.330	0.270	0.020	0.020	0.010	0.000	0.000	0.000	0.280
90	0.840	0.130	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.010
91	0.040	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.010
92	0.010	0.000	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010
93	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
95	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
100	0.000	0.000	0.000	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	0.000	0.000	0.010
102	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
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	0.010
108	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
110	0.000	0.000	0.000	0.010	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	0.000	0.000	0.010
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	0.010
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.010	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	0.010
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	0.010
119	0.010	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	0.010
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	0.010	0.000	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010
125	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010
126	0.010	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010
127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
128	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010
129	0.010	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010	0.010
130	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010
133	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.010
134	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010
135	0.000	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010
136	0.000	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010
137	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010
138	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010
139	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.010
140	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.010
141	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.010
142	0.010	0.010	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.010
143	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.000	0.000	0.010
144	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.010	0.000	0.010
145	0.010	0.010	0.000	0.010	0.000	0.000	0.010	0.010	0.010	0.010
146	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.010	0.010	0.000
147	0.010	0.010	0.010	0.000	0.010	0.000	0.010	0.010	0.000	0.010
148	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
149	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.000	0.010	0.010
150	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.020	0.010
151	0.000	0.010	0.010	0.000	0.010	0.010	0.000	0.010	0.020	0.010
152	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
153	0.010	0.010	0.020	0.000	0.010	0.010	0.000	0.010	0.000	0.010
154	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.010	0.020	0.000
155	0.020	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010
156	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010
157	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
158	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.000
159	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.000	0.030
160	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.000	0.010
161	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.000	0.000
162	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
163	0.010	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010
164	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
165	0.010	0.030	0.010	0.000	0.010	0.010	0.000	0.010	0.010	0.010
166	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.010	0.010	0.010
167	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.010
168	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
169	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
170	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.010	0.010	0.000
171	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.010
172	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
173	0.010	0.010	0.010	0.010	0.000	0.000	0.010	0.010	0.010	0.010
174	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.010	0.010	0.010
175	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010
176	0.010	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000
177	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.000
178	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	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	449.329	449.329	449.329	449.329	449.329	449.329	449.329
1	449.230	449.320	449.590	449.600	449.630	449.590	449.180
2	448.750	449.340	449.130	449.150	448.910	448.910	449.020
3	448.730	448.630	448.290	448.270	448.550	448.140	448.030
4	447.400	447.850	447.200	447.620	447.390	447.590	447.020
5	446.920	446.700	446.310	446.480	446.210	445.890	445.550
6	445.510	445.990	444.310	445.090	444.730	444.540	444.040
7	444.270	444.410	442.680	443.070	443.360	442.610	442.170
8	441.630	442.520	440.510	441.100	440.930	440.440	440.210
9	440.020	440.240	438.340	438.570	438.450	438.270	437.510
10	437.230	437.870	435.530	436.190	435.930	435.990	434.540
11	434.630	435.600	432.460	432.900	433.170	432.500	431.930
12	431.520	432.710	429.150	429.840	429.830	429.290	428.640
13	428.550	429.190	426.030	426.230	426.550	426.240	425.410
14	424.970	425.780	421.970	422.720	422.900	422.560	421.540
15	421.490	422.360	417.960	418.840	418.910	418.530	417.340
16	417.360	418.010	413.760	414.700	414.550	414.390	413.410
17	413.440	413.850	409.550	410.390	410.210	409.890	409.080
18	408.980	409.670	404.860	405.420	405.900	405.360	404.170
19	404.070	405.330	399.780	400.390	401.080	400.810	399.480
20	399.230	400.530	394.810	395.670	395.840	395.540	394.220
21	394.230	395.310	389.730	390.220	390.760	390.380	388.840
22	388.890	390.060	383.970	384.870	385.090	384.870	383.690
23	382.960	384.850	378.350	379.310	379.610	379.040	377.900
24	377.190	379.070	372.930	373.310	373.420	373.110	372.110
25	370.730	373.270	366.760	367.380	367.500	367.130	365.630
26	364.300	366.900	360.230	360.800	361.430	360.840	358.770
27	357.100	360.420	353.760	354.490	354.830	354.420	351.680
28	350.320	353.630	346.560	347.840	348.210	347.080	344.670
29	343.150	346.270	339.100	340.580	340.760	339.370	336.570
30	335.030	338.650	331.570	333.260	333.140	331.790	328.840
31	327.540	331.190	323.670	325.080	325.010	323.730	320.640
32	319.670	323.260	315.570	317.080	317.170	315.430	312.280
33	311.210	314.950	307.590	308.910	308.670	307.260	303.870
34	303.400	306.880	298.750	300.460	300.360	298.750	295.360
35	294.960	298.690	290.370	292.180	291.820	290.420	286.950
36	286.530	290.540	281.870	283.330	283.180	281.410	278.090
37	278.080	281.950	273.580	274.770	274.770	272.980	269.770
38	269.600	273.540	265.150	266.080	265.830	264.220	260.890
39	260.940	265.370	256.600	257.620	257.210	255.710	252.000
40	252.790	256.730	248.030	249.130	248.480	246.780	243.530
41	244.010	248.470	240.040	240.450	240.140	238.330	235.000
42	235.560	240.150	231.600	232.170	231.760	229.830	226.410
43	227.010	231.680	223.070	223.640	223.070	221.360	218.150
44	218.870	223.440	215.230	215.520	214.830	212.890	209.590
45	210.590	215.320	207.020	207.240	206.310	204.320	201.510
46	202.330	207.310	198.900	199.270	198.370	196.370	193.330
47	194.300	199.270	191.230	191.270	190.380	188.340	185.510
48	186.280	191.390	183.380	183.600	182.460	180.570	177.500
49	178.250	183.510	175.890	176.010	174.810	172.820	169.880
50	170.620	175.810	168.220	168.400	167.150	165.230	162.140
51	162.870	168.220	161.010	161.100	159.900	157.790	154.960
52	155.440	160.760	153.880	153.880	152.540	150.510	147.710
53	147.980	153.250	146.820	147.030	145.470	143.420	140.660
54	140.980	146.170	139.910	140.040	138.640	136.500	133.800
55	133.790	139.050	133.020	133.350	131.850	129.710	126.990
56	126.910	132.180	126.590	126.700	125.320	123.060	120.500
57	120.290	125.460	119.900	120.290	118.910	116.790	114.150

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CANDELA TABULATION - (Cont.)

58	113.720	118.910	113.670	114.150	112.730	110.480	107.940
59	107.350	112.560	107.620	108.090	106.690	104.460	102.010
60	101.080	106.250	101.540	102.130	100.670	98.590	96.100
61	94.990	100.130	95.780	96.370	94.940	92.960	90.530
62	89.180	94.120	90.080	90.780	89.510	87.440	85.070
63	83.530	88.370	84.450	85.390	83.820	82.260	79.920
64	77.980	82.700	79.300	80.300	78.860	77.080	74.790
65	72.550	77.230	74.140	75.210	73.900	71.910	69.650
66	67.500	72.070	68.990	70.120	69.110	67.100	64.880
67	62.510	66.860	64.030	65.240	64.390	62.530	60.310
68	57.850	62.100	59.360	60.710	59.970	58.180	56.050
69	53.160	57.290	54.730	56.160	55.560	53.850	51.780
70	48.830	52.800	50.430	51.900	51.490	49.820	47.840
71	44.590	48.370	46.180	47.760	47.440	45.920	44.000
72	40.660	44.280	42.140	43.760	43.650	42.240	40.440
73	36.910	40.340	38.310	39.980	39.950	38.740	36.980
74	33.330	36.560	34.660	36.280	36.420	35.330	33.710
75	29.980	33.000	31.260	32.820	33.070	32.200	30.670
76	26.760	29.630	27.960	29.490	29.820	29.080	27.640
77	23.830	26.490	24.940	26.380	26.800	26.180	24.830
78	21.480	23.570	22.110	23.490	23.890	23.410	22.140
79	19.130	21.060	19.480	20.760	21.200	20.780	19.600
80	16.770	18.550	16.940	18.260	18.650	18.290	17.240
81	14.430	16.060	14.750	15.980	16.400	16.100	15.200
82	12.950	14.230	13.100	14.110	14.590	14.330	13.610
83	11.290	12.560	11.330	12.390	13.020	12.810	12.110
84	9.600	10.750	9.620	10.600	11.430	11.210	10.470
85	7.890	8.910	7.930	8.850	9.720	9.530	8.810
86	6.210	7.160	6.240	7.180	8.050	7.860	7.150
87	4.550	5.480	4.550	5.510	6.380	6.190	5.500
88	2.940	4.020	3.120	3.900	4.700	4.570	3.900
89	1.410	2.670	1.890	2.680	3.150	2.990	2.340
90	0.170	1.190	0.480	1.190	1.590	1.460	0.840
91	0.020	0.090	0.030	0.120	0.270	0.190	0.040
92	0.020	0.020	0.020	0.020	0.020	0.020	0.010
93	0.020	0.020	0.020	0.020	0.020	0.010	0.000
94	0.010	0.010	0.010	0.010	0.010	0.010	0.000
95	0.010	0.010	0.000	0.010	0.010	0.010	0.010
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	0.010	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	0.010	0.010
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	0.010
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	0.010
116	0.000	0.010	0.000	0.000	0.000	0.010	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	0.010	0.000	0.000

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CANDELA TABULATION - (Cont.)

119	0.000	0.000	0.000	0.010	0.000	0.000	0.010
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	0.010
127	0.000	0.000	0.010	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000	0.010	0.010
129	0.000	0.000	0.000	0.010	0.000	0.000	0.010
130	0.000	0.010	0.000	0.010	0.000	0.010	0.010
131	0.000	0.010	0.010	0.010	0.000	0.000	0.000
132	0.000	0.000	0.010	0.000	0.010	0.000	0.010
133	0.010	0.010	0.010	0.010	0.010	0.000	0.000
134	0.000	0.010	0.010	0.010	0.000	0.000	0.000
135	0.010	0.010	0.010	0.010	0.000	0.000	0.000
136	0.000	0.010	0.010	0.000	0.000	0.010	0.000
137	0.000	0.010	0.010	0.000	0.010	0.010	0.010
138	0.010	0.010	0.010	0.000	0.010	0.020	0.010
139	0.010	0.010	0.000	0.000	0.020	0.010	0.010
140	0.010	0.010	0.010	0.010	0.010	0.010	0.010
141	0.010	0.010	0.010	0.010	0.010	0.010	0.010
142	0.010	0.010	0.010	0.010	0.010	0.010	0.010
143	0.010	0.010	0.000	0.000	0.010	0.010	0.010
144	0.010	0.010	0.000	0.010	0.010	0.010	0.010
145	0.010	0.010	0.010	0.010	0.010	0.010	0.010
146	0.010	0.010	0.010	0.010	0.010	0.010	0.010
147	0.010	0.010	0.020	0.010	0.010	0.010	0.010
148	0.010	0.010	0.010	0.010	0.010	0.010	0.010
149	0.010	0.020	0.010	0.010	0.010	0.010	0.010
150	0.010	0.010	0.010	0.010	0.010	0.010	0.010
151	0.010	0.010	0.010	0.010	0.010	0.010	0.000
152	0.010	0.000	0.010	0.010	0.010	0.010	0.010
153	0.010	0.010	0.010	0.010	0.010	0.010	0.010
154	0.010	0.000	0.010	0.010	0.010	0.010	0.010
155	0.010	0.000	0.010	0.010	0.010	0.010	0.020
156	0.010	0.000	0.010	0.010	0.010	0.010	0.010
157	0.010	0.000	0.010	0.010	0.010	0.010	0.010
158	0.000	0.010	0.000	0.010	0.010	0.010	0.010
159	0.000	0.000	0.010	0.010	0.010	0.010	0.010
160	0.060	0.000	0.010	0.010	0.010	0.010	0.010
161	0.010	0.000	0.010	0.010	0.010	0.010	0.010
162	0.010	0.010	0.010	0.020	0.020	0.010	0.010
163	0.010	0.010	0.000	0.010	0.010	0.010	0.010
164	0.010	0.010	0.010	0.010	0.010	0.010	0.010
165	0.010	0.010	0.010	0.010	0.010	0.010	0.010
166	0.010	0.010	0.000	0.010	0.010	0.010	0.010
167	0.010	0.010	0.000	0.010	0.010	0.010	0.010
168	0.010	0.010	0.010	0.010	0.010	0.010	0.010
169	0.010	0.000	0.000	0.010	0.010	0.010	0.010
170	0.010	0.010	0.010	0.010	0.010	0.010	0.010
171	0.010	0.010	0.010	0.010	0.010	0.010	0.010
172	0.010	0.000	0.010	0.010	0.010	0.010	0.010
173	0.010	0.010	0.000	0.010	0.010	0.010	0.010
174	0.010	0.010	0.010	0.010	0.010	0.010	0.010
175	0.000	0.000	0.010	0.010	0.010	0.010	0.010
176	0.010	0.010	0.010	0.010	0.000	0.010	0.010
177	0.000	0.000	0.000	0.000	0.010	0.010	0.010
178	0.010	0.000	0.000	0.000	0.000	0.000	0.010
179	0.000	0.000	0.000	0.000	0.000	0.010	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 : BTR66.181.19.0039.16 EP-LUNA-TD7090-10_IESNA2002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	159.82	18.10	18.10
0-30	327.29	37.10	37.10
0-40	506.16	57.40	57.40
0-60	776.30	88.00	88.00
0-80	874.91	99.10	99.10
0-90	882.49	100.00	100.00
10-90	840.26	95.20	95.20
20-40	346.34	39.20	39.20
20-50	502.27	56.90	56.90
40-70	338.59	38.40	38.40
60-80	98.61	11.20	11.20
70-80	30.15	3.40	3.40
80-90	7.57	0.90	0.90
90-110	0.03	0.00	0.00
90-120	0.03	0.00	0.00
90-130	0.04	0.00	0.00
90-150	0.04	0.00	0.00
90-180	0.05	0.00	0.00
110-180	0.02	0.00	0.00
0-180	882.54	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.22
10-20	117.60
20-30	167.47
30-40	178.87
40-50	155.93
50-60	114.20
60-70	68.46
70-80	30.15
80-90	7.57
90-100	0.03
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

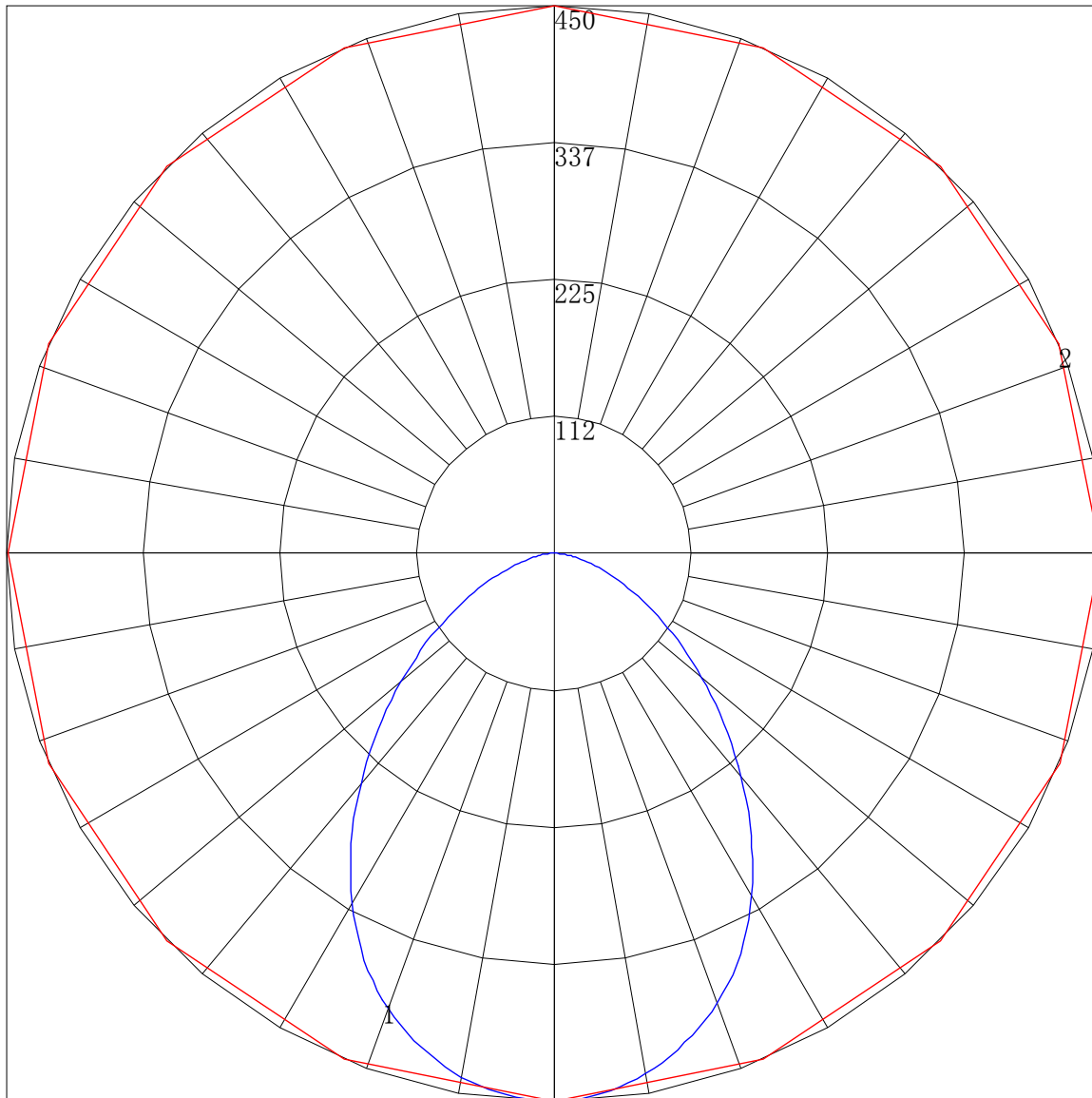
Effective Floor Cavity Reflectance 0.20

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	88	83	89	85	81	86	83	79	83	80	78	76
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	73	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	49	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	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	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 = 449.68 Located At Horizontal Angle = 202.5, Vertical Angle = 1

1 - Vertical Plane Through Horizontal Angles (202.5 - 22.5) (Through Max. Cd.)

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