



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-PRO-22-LED35-MO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]BTRI-22-LED35-MO  
 [TESTLAB]INTERTEK  
 [ISSUE DATE] 8-9-18  
 [MANUFAC] PRUDENTIAL  
 [\_TOTALLUMINAIRELUMENS] 3031.7

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.29 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.15 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34560	22434	19366
55	34413	19938	16536
65	34840	17391	13880
75	36581	14320	10848
85	41936	9914	7011

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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>
<b>0.0</b>	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465
<b>2.5</b>	1383.030	1395.900	1393.755	1386.000	1381.545	1385.340	1391.775	1398.870	1387.650	1398.870
<b>5.0</b>	1382.205	1394.580	1392.600	1386.825	1383.030	1386.495	1389.300	1401.015	1395.240	1401.015
<b>7.5</b>	1383.360	1390.290	1388.475	1386.495	1380.555	1374.780	1381.545	1395.900	1381.215	1395.900
<b>10.0</b>	1364.715	1379.730	1374.615	1372.800	1367.190	1364.550	1373.130	1381.215	1373.130	1381.215
<b>12.5</b>	1349.535	1358.280	1360.425	1356.135	1352.175	1350.030	1360.260	1365.705	1355.475	1365.705
<b>15.0</b>	1331.055	1341.285	1340.955	1336.665	1328.250	1331.055	1342.440	1345.575	1338.480	1345.575
<b>17.5</b>	1309.605	1314.885	1318.350	1315.215	1304.655	1310.100	1320.825	1322.970	1315.050	1322.970
<b>20.0</b>	1285.350	1287.000	1292.115	1292.610	1276.770	1284.030	1290.135	1295.745	1293.435	1295.745
<b>22.5</b>	1252.680	1254.990	1264.395	1262.415	1247.070	1254.660	1257.630	1265.220	1259.280	1265.220
<b>25.0</b>	1220.835	1222.650	1229.745	1228.095	1212.420	1223.475	1222.320	1230.735	1225.950	1230.735
<b>27.5</b>	1188.165	1188.990	1194.105	1195.095	1177.275	1186.680	1187.835	1195.755	1191.630	1195.755
<b>30.0</b>	1148.400	1149.060	1156.320	1160.115	1143.285	1153.185	1153.350	1158.960	1158.465	1158.960
<b>32.5</b>	1115.400	1111.605	1120.680	1122.495	1101.540	1115.895	1114.905	1120.515	1121.175	1120.515
<b>35.0</b>	1078.770	1072.665	1083.720	1085.865	1063.260	1077.450	1075.635	1083.720	1085.865	1083.720
<b>37.5</b>	1040.490	1035.705	1046.100	1047.750	1024.815	1041.150	1035.045	1044.450	1048.740	1044.450
<b>40.0</b>	999.570	996.600	1009.635	1011.615	986.370	1001.385	999.075	1009.635	1012.440	1009.635
<b>42.5</b>	962.775	958.320	974.820	978.120	949.080	960.960	959.805	970.530	977.625	970.530
<b>45.0</b>	923.175	917.730	937.365	941.820	911.955	922.020	921.030	933.570	942.975	933.570
<b>47.5</b>	887.700	879.285	902.220	907.500	872.850	880.935	879.120	894.135	906.180	894.135
<b>50.0</b>	846.450	840.675	864.600	869.550	837.210	839.190	840.345	857.505	870.705	857.505
<b>52.5</b>	805.530	802.230	826.815	835.395	797.775	798.765	802.725	820.875	834.405	820.875
<b>55.0</b>	764.775	759.495	791.175	797.115	757.845	758.505	759.990	780.285	797.445	780.285
<b>57.5</b>	723.855	720.060	752.565	760.155	721.215	718.740	718.245	742.335	760.650	742.335
<b>60.0</b>	683.430	680.460	713.460	722.040	680.790	676.995	678.480	702.570	722.370	702.570
<b>62.5</b>	637.560	639.045	675.840	681.450	640.860	630.960	635.910	662.970	682.770	662.970
<b>65.0</b>	594.330	596.145	632.610	640.035	599.280	589.050	593.340	619.080	638.880	619.080
<b>67.5</b>	548.790	551.595	589.875	597.135	555.885	545.490	550.110	575.850	599.610	575.850
<b>70.0</b>	506.550	508.035	548.295	552.915	511.830	499.785	505.065	532.785	554.235	532.785
<b>72.5</b>	461.670	463.815	501.765	508.365	468.930	455.070	460.020	487.245	508.695	487.245
<b>75.0</b>	416.130	418.275	457.710	464.145	425.370	410.685	417.285	443.520	463.980	443.520
<b>77.5</b>	367.785	371.745	412.335	419.100	379.830	363.495	368.775	396.825	415.305	396.825
<b>80.0</b>	322.245	327.525	366.465	370.755	334.620	318.945	322.575	348.975	369.930	348.975
<b>82.5</b>	276.540	282.150	317.130	324.060	288.750	271.920	273.405	305.085	319.770	305.085
<b>85.0</b>	224.235	230.505	263.505	269.445	238.755	217.470	219.780	250.800	263.670	250.800
<b>87.5</b>	170.610	175.065	206.580	213.345	181.830	164.340	169.455	193.875	204.600	193.875
<b>90.0</b>	135.465	135.630	164.670	166.815	143.385	131.175	131.670	152.625	167.310	152.625
<b>92.5</b>	123.255	127.380	150.810	154.770	132.825	125.070	125.235	143.220	154.935	143.220
<b>95.0</b>	119.625	120.945	141.405	145.035	124.905	120.615	118.965	136.455	146.850	136.455
<b>97.5</b>	116.160	115.170	135.300	141.075	125.235	116.160	120.120	134.310	137.940	134.310
<b>100.0</b>	116.490	111.540	134.145	139.095	124.905	119.790	121.110	133.320	137.115	133.320
<b>102.5</b>	113.025	111.045	130.350	136.620	119.460	121.275	118.965	128.040	135.630	128.040
<b>105.0</b>	114.510	109.890	119.790	126.060	114.180	114.015	114.180	115.335	130.680	115.335
<b>107.5</b>	113.850	102.795	114.345	116.490	106.260	107.085	106.425	107.250	120.945	107.250
<b>110.0</b>	102.630	94.380	108.405	108.900	96.195	99.495	94.545	100.650	116.655	100.650
<b>112.5</b>	97.680	88.605	101.310	103.290	90.585	91.575	89.265	97.350	107.910	97.350
<b>115.0</b>	88.440	84.975	97.680	95.865	83.985	86.130	82.335	92.730	101.310	92.730
<b>117.5</b>	86.955	82.005	89.925	90.585	76.890	80.850	77.880	88.605	99.000	88.605
<b>120.0</b>	81.345	79.695	86.955	87.120	72.930	77.220	76.065	82.665	92.730	82.665
<b>122.5</b>	79.695	74.745	82.665	82.500	68.805	73.920	72.930	78.540	87.945	78.540
<b>125.0</b>	73.590	70.290	79.860	78.705	67.320	68.640	69.135	77.385	84.810	77.385
<b>127.5</b>	70.785	66.495	75.075	73.260	63.195	64.515	62.865	72.930	81.345	72.930
<b>130.0</b>	68.805	60.225	71.610	69.630	59.565	64.020	58.080	68.970	77.055	68.970
<b>132.5</b>	59.730	56.100	66.825	65.010	57.750	60.225	56.595	65.835	72.270	65.835

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-PRO-22-LED35-MO.IES**

**CANDELA TABULATION - (Cont.)**

135.0	54.780	52.305	62.700	62.205	55.440	54.615	52.800	63.360	69.960	63.360
137.5	45.210	50.325	58.905	57.915	51.315	50.160	49.995	60.390	67.650	60.390
140.0	40.920	47.355	56.100	53.790	49.500	48.345	47.520	55.275	62.370	55.275
142.5	39.105	43.395	52.470	51.975	44.055	43.065	43.890	52.635	58.905	52.635
145.0	34.485	39.105	48.675	47.850	42.240	40.095	41.910	49.500	55.935	49.500
147.5	30.525	38.280	44.715	46.200	39.600	34.980	37.620	46.860	48.015	46.860
150.0	28.380	34.980	41.580	41.415	36.960	32.670	36.300	42.405	46.695	42.405
152.5	27.390	31.515	39.765	37.785	33.495	28.875	33.000	39.105	40.260	39.105
155.0	21.945	28.875	34.815	35.145	27.555	27.225	28.875	35.145	38.115	35.145
157.5	21.780	26.235	33.495	32.835	26.895	23.595	29.040	31.845	32.175	31.845
160.0	18.645	25.080	30.195	30.525	24.420	21.285	23.430	28.875	30.030	28.875
162.5	17.160	22.605	26.070	26.895	21.450	18.150	20.130	25.905	28.380	25.905
165.0	14.190	19.635	23.265	22.440	19.140	16.170	19.800	21.780	23.760	21.780
167.5	15.015	18.645	18.975	20.295	15.015	14.190	17.325	18.645	18.810	18.645
170.0	14.355	14.520	14.850	16.500	13.365	11.880	14.190	14.355	16.830	14.355
172.5	13.365	12.045	12.375	12.705	11.220	10.890	11.550	12.870	14.355	12.870
175.0	9.075	10.230	9.570	10.065	10.065	9.075	10.065	10.395	9.900	10.395
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>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>
0.0	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465	1389.465
2.5	1391.775	1385.340	1381.545	1386.000	1393.755	1395.900	1383.030
5.0	1389.300	1386.495	1383.030	1386.825	1392.600	1394.580	1382.205
7.5	1381.545	1374.780	1380.555	1386.495	1388.475	1390.290	1383.360
10.0	1373.130	1364.550	1367.190	1372.800	1374.615	1379.730	1364.715
12.5	1360.260	1350.030	1352.175	1356.135	1360.425	1358.280	1349.535
15.0	1342.440	1331.055	1328.250	1336.665	1340.955	1341.285	1331.055
17.5	1320.825	1310.100	1304.655	1315.215	1318.350	1314.885	1309.605
20.0	1290.135	1284.030	1276.770	1292.610	1292.115	1287.000	1285.350
22.5	1257.630	1254.660	1247.070	1262.415	1264.395	1254.990	1252.680
25.0	1222.320	1223.475	1212.420	1228.095	1229.745	1222.650	1220.835
27.5	1187.835	1186.680	1177.275	1195.095	1194.105	1188.990	1188.165
30.0	1153.350	1153.185	1143.285	1160.115	1156.320	1149.060	1148.400
32.5	1114.905	1115.895	1101.540	1122.495	1120.680	1111.605	1115.400
35.0	1075.635	1077.450	1063.260	1085.865	1083.720	1072.665	1078.770
37.5	1035.045	1041.150	1024.815	1047.750	1046.100	1035.705	1040.490
40.0	999.075	1001.385	986.370	1011.615	1009.635	996.600	999.570
42.5	959.805	960.960	949.080	978.120	974.820	958.320	962.775
45.0	921.030	922.020	911.955	941.820	937.365	917.730	923.175
47.5	879.120	880.935	872.850	907.500	902.220	879.285	887.700
50.0	840.345	839.190	837.210	869.550	864.600	840.675	846.450
52.5	802.725	798.765	797.775	835.395	826.815	802.230	805.530
55.0	759.990	758.505	757.845	797.115	791.175	759.495	764.775
57.5	718.245	718.740	721.215	760.155	752.565	720.060	723.855
60.0	678.480	676.995	680.790	722.040	713.460	680.460	683.430
62.5	635.910	630.960	640.860	681.450	675.840	639.045	637.560
65.0	593.340	589.050	599.280	640.035	632.610	596.145	594.330
67.5	550.110	545.490	555.885	597.135	589.875	551.595	548.790
70.0	505.065	499.785	511.830	552.915	548.295	508.035	506.550
72.5	460.020	455.070	468.930	508.365	501.765	463.815	461.670
75.0	417.285	410.685	425.370	464.145	457.710	418.275	416.130
77.5	368.775	363.495	379.830	419.100	412.335	371.745	367.785
80.0	322.575	318.945	334.620	370.755	366.465	327.525	322.245

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**CANDELA TABULATION - (Cont.)**

82.5	273.405	271.920	288.750	324.060	317.130	282.150	276.540
85.0	219.780	217.470	238.755	269.445	263.505	230.505	224.235
87.5	169.455	164.340	181.830	213.345	206.580	175.065	170.610
90.0	131.670	131.175	143.385	166.815	164.670	135.630	135.465
92.5	125.235	125.070	132.825	154.770	150.810	127.380	123.255
95.0	118.965	120.615	124.905	145.035	141.405	120.945	119.625
97.5	120.120	116.160	125.235	141.075	135.300	115.170	116.160
100.0	121.110	119.790	124.905	139.095	134.145	111.540	116.490
102.5	118.965	121.275	119.460	136.620	130.350	111.045	113.025
105.0	114.180	114.015	114.180	126.060	119.790	109.890	114.510
107.5	106.425	107.085	106.260	116.490	114.345	102.795	113.850
110.0	94.545	99.495	96.195	108.900	108.405	94.380	102.630
112.5	89.265	91.575	90.585	103.290	101.310	88.605	97.680
115.0	82.335	86.130	83.985	95.865	97.680	84.975	88.440
117.5	77.880	80.850	76.890	90.585	89.925	82.005	86.955
120.0	76.065	77.220	72.930	87.120	86.955	79.695	81.345
122.5	72.930	73.920	68.805	82.500	82.665	74.745	79.695
125.0	69.135	68.640	67.320	78.705	79.860	70.290	73.590
127.5	62.865	64.515	63.195	73.260	75.075	66.495	70.785
130.0	58.080	64.020	59.565	69.630	71.610	60.225	68.805
132.5	56.595	60.225	57.750	65.010	66.825	56.100	59.730
135.0	52.800	54.615	55.440	62.205	62.700	52.305	54.780
137.5	49.995	50.160	51.315	57.915	58.905	50.325	45.210
140.0	47.520	48.345	49.500	53.790	56.100	47.355	40.920
142.5	43.890	43.065	44.055	51.975	52.470	43.395	39.105
145.0	41.910	40.095	42.240	47.850	48.675	39.105	34.485
147.5	37.620	34.980	39.600	46.200	44.715	38.280	30.525
150.0	36.300	32.670	36.960	41.415	41.580	34.980	28.380
152.5	33.000	28.875	33.495	37.785	39.765	31.515	27.390
155.0	28.875	27.225	27.555	35.145	34.815	28.875	21.945
157.5	29.040	23.595	26.895	32.835	33.495	26.235	21.780
160.0	23.430	21.285	24.420	30.525	30.195	25.080	18.645
162.5	20.130	18.150	21.450	26.895	26.070	22.605	17.160
165.0	19.800	16.170	19.140	22.440	23.265	19.635	14.190
167.5	17.325	14.190	15.015	20.295	18.975	18.645	15.015
170.0	14.190	11.880	13.365	16.500	14.850	14.520	14.355
172.5	11.550	10.890	11.220	12.705	12.375	12.045	13.365
175.0	10.065	9.075	10.065	10.065	9.570	10.230	9.075
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	509.37	N.A.	10.20
0-30	1073.66	N.A.	21.50
0-40	1748.97	N.A.	35.00
0-60	3157.86	N.A.	63.10
0-80	4220.45	N.A.	84.40
0-90	4484.21	N.A.	89.60
10-90	4352.06	N.A.	87.00
20-40	1239.6	N.A.	24.80
20-50	1955.98	N.A.	39.10
40-70	2013.52	N.A.	40.20
60-80	1062.58	N.A.	21.20
70-80	457.96	N.A.	9.20
80-90	263.76	N.A.	5.30
90-110	267.82	N.A.	5.40
90-120	357.72	N.A.	7.20
90-130	423.74	N.A.	8.50
90-150	497.01	N.A.	9.90
90-180	518.67	N.A.	10.40
110-180	250.85	N.A.	5.00
0-180	5002.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.15
10-20	377.22
20-30	564.28
30-40	675.31
40-50	716.39
50-60	692.51
60-70	604.63
70-80	457.96
80-90	263.76
90-100	144.88
100-110	122.94
110-120	89.90
120-130	66.03
130-140	45.24
140-150	28.02
150-160	14.80
160-170	5.89
170-180	0.97

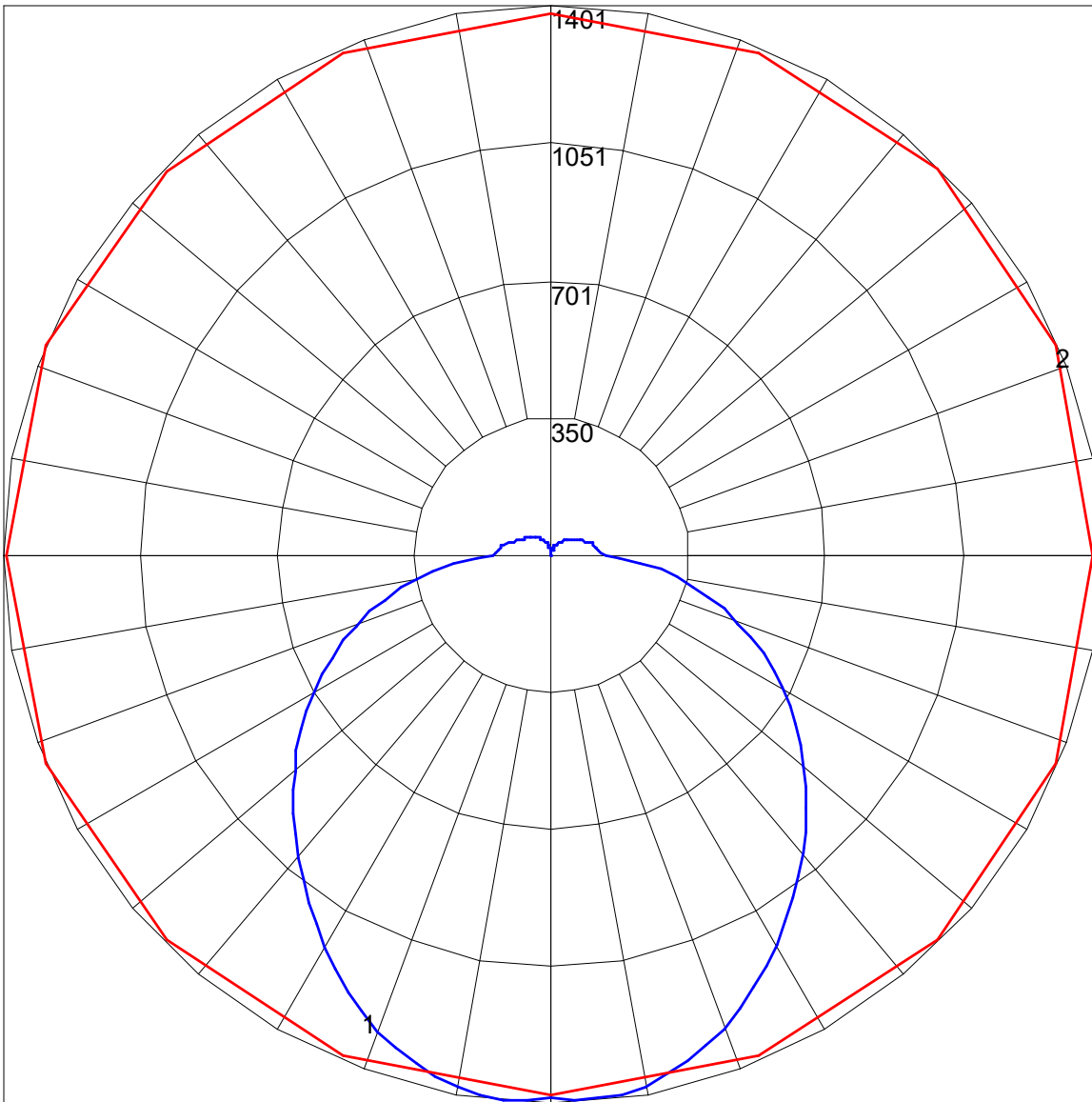
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	67	64	60	57
3	85	74	65	58	82	72	64	57	67	60	55	63	57	52	59	54	50	48
4	78	65	56	49	75	63	55	48	59	52	46	56	49	44	52	47	43	40
5	71	58	49	42	69	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	36	63	51	42	36	48	40	34	45	38	33	42	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	26
8	57	43	34	28	55	42	34	28	40	32	27	38	31	26	36	30	26	23
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 1401.015 Located At Horizontal Angle = 157.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)