



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-22-LED35-HO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]BTRI-22-LED35-HO  
 [TESTLAB]INTERTEK  
 [ISSUE DATE] 8-9-18  
 [MANUFAC] PRUDENTIAL  
 [\_TOTAL LUMINAIRE LUMENS] 3031.7

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	52
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	38120	24745	21362
55	37959	21992	18240
65	38430	19183	15310
75	40350	15796	11966
85	46256	10935	7733

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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>	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622
<b>2.5</b>	1525.524	1539.720	1537.354	1528.800	1523.886	1528.072	1535.170	1542.996	1530.620	1542.996
<b>5.0</b>	1524.614	1538.264	1536.080	1529.710	1525.524	1529.346	1532.440	1545.362	1538.992	1545.362
<b>7.5</b>	1525.888	1533.532	1531.530	1529.346	1522.794	1516.424	1523.886	1539.720	1523.522	1539.720
<b>10.0</b>	1505.322	1521.884	1516.242	1514.240	1508.052	1505.140	1514.604	1523.522	1514.604	1523.522
<b>12.5</b>	1488.578	1498.224	1500.590	1495.858	1491.490	1489.124	1500.408	1506.414	1495.130	1506.414
<b>15.0</b>	1468.194	1479.478	1479.114	1474.382	1465.100	1468.194	1480.752	1484.210	1476.384	1484.210
<b>17.5</b>	1444.534	1450.358	1454.180	1450.722	1439.074	1445.080	1456.910	1459.276	1450.540	1459.276
<b>20.0</b>	1417.780	1419.600	1425.242	1425.788	1408.316	1416.324	1423.058	1429.246	1426.698	1429.246
<b>22.5</b>	1381.744	1384.292	1394.666	1392.482	1375.556	1383.928	1387.204	1395.576	1389.024	1395.576
<b>25.0</b>	1346.618	1348.620	1356.446	1354.626	1337.336	1349.530	1348.256	1357.538	1352.260	1357.538
<b>27.5</b>	1310.582	1311.492	1317.134	1318.226	1298.570	1308.944	1310.218	1318.954	1314.404	1318.954
<b>30.0</b>	1266.720	1267.448	1275.456	1279.642	1261.078	1271.998	1272.180	1278.368	1277.822	1278.368
<b>32.5</b>	1230.320	1226.134	1236.144	1238.146	1215.032	1230.866	1229.774	1235.962	1236.690	1235.962
<b>35.0</b>	1189.916	1183.182	1195.376	1197.742	1172.808	1188.460	1186.458	1195.376	1197.742	1195.376
<b>37.5</b>	1147.692	1142.414	1153.880	1155.700	1130.402	1148.420	1141.686	1152.060	1156.792	1152.060
<b>40.0</b>	1102.556	1099.280	1113.658	1115.842	1087.996	1104.558	1102.010	1113.658	1116.752	1113.658
<b>42.5</b>	1061.970	1057.056	1075.256	1078.896	1046.864	1059.968	1058.694	1070.524	1078.350	1070.524
<b>45.0</b>	1018.290	1012.284	1033.942	1038.856	1005.914	1017.016	1015.924	1029.756	1040.130	1029.756
<b>47.5</b>	979.160	969.878	995.176	1001.000	962.780	971.698	969.696	986.258	999.544	986.258
<b>50.0</b>	933.660	927.290	953.680	959.140	923.468	925.652	926.926	945.854	960.414	945.854
<b>52.5</b>	888.524	884.884	912.002	921.466	879.970	881.062	885.430	905.450	920.374	905.450
<b>55.0</b>	843.570	837.746	872.690	879.242	835.926	836.654	838.292	860.678	879.606	860.678
<b>57.5</b>	798.434	794.248	830.102	838.474	795.522	792.792	792.246	818.818	839.020	818.818
<b>60.0</b>	753.844	750.568	786.968	796.432	750.932	746.746	748.384	774.956	796.796	774.956
<b>62.5</b>	703.248	704.886	745.472	751.660	706.888	695.968	701.428	731.276	753.116	731.276
<b>65.0</b>	655.564	657.566	697.788	705.978	661.024	649.740	654.472	682.864	704.704	682.864
<b>67.5</b>	605.332	608.426	650.650	658.658	613.158	601.692	606.788	635.180	661.388	635.180
<b>70.0</b>	558.740	560.378	604.786	609.882	564.564	551.278	557.102	587.678	611.338	587.678
<b>72.5</b>	509.236	511.602	553.462	560.742	517.244	501.956	507.416	537.446	561.106	537.446
<b>75.0</b>	459.004	461.370	504.868	511.966	469.196	452.998	460.278	489.216	511.784	489.216
<b>77.5</b>	405.678	410.046	454.818	462.280	418.964	400.946	406.770	437.710	458.094	437.710
<b>80.0</b>	355.446	361.270	404.222	408.954	369.096	351.806	355.810	384.930	408.044	384.930
<b>82.5</b>	305.032	311.220	349.804	357.448	318.500	299.936	301.574	336.518	352.716	336.518
<b>85.0</b>	247.338	254.254	290.654	297.206	263.354	239.876	242.424	276.640	290.836	276.640
<b>87.5</b>	188.188	193.102	227.864	235.326	200.564	181.272	186.914	213.850	225.680	213.850
<b>90.0</b>	149.422	149.604	181.636	184.002	158.158	144.690	145.236	168.350	184.548	168.350
<b>92.5</b>	135.954	140.504	166.348	170.716	146.510	137.956	138.138	157.976	170.898	157.976
<b>95.0</b>	131.950	133.406	155.974	159.978	137.774	133.042	131.222	150.514	161.980	150.514
<b>97.5</b>	128.128	127.036	149.240	155.610	138.138	128.128	132.496	148.148	152.152	148.148
<b>100.0</b>	128.492	123.032	147.966	153.426	137.774	132.132	133.588	147.056	151.242	147.056
<b>102.5</b>	124.670	122.486	143.780	150.696	131.768	133.770	131.222	141.232	149.604	141.232
<b>105.0</b>	126.308	121.212	132.132	139.048	125.944	125.762	125.944	127.218	144.144	127.218
<b>107.5</b>	125.580	113.386	126.126	128.492	117.208	118.118	117.390	118.300	133.406	118.300
<b>110.0</b>	113.204	104.104	119.574	120.120	106.106	109.746	104.286	111.020	128.674	111.020
<b>112.5</b>	107.744	97.734	111.748	113.932	99.918	101.010	98.462	107.380	119.028	107.380
<b>115.0</b>	97.552	93.730	107.744	105.742	92.638	95.004	90.818	102.284	111.748	102.284
<b>117.5</b>	95.914	90.454	99.190	99.918	84.812	89.180	85.904	97.734	109.200	97.734
<b>120.0</b>	89.726	87.906	95.914	96.096	80.444	85.176	83.902	91.182	102.284	91.182
<b>122.5</b>	87.906	82.446	91.182	91.000	75.894	81.536	80.444	86.632	97.006	86.632
<b>125.0</b>	81.172	77.532	88.088	86.814	74.256	75.712	76.258	85.358	93.548	85.358
<b>127.5</b>	78.078	73.346	82.810	80.808	69.706	71.162	69.342	80.444	89.726	80.444
<b>130.0</b>	75.894	66.430	78.988	76.804	65.702	70.616	64.064	76.076	84.994	76.076
<b>132.5</b>	65.884	61.880	73.710	71.708	63.700	66.430	62.426	72.618	79.716	72.618

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**CANDELA TABULATION - (Cont.)**

135.0	60.424	57.694	69.160	68.614	61.152	60.242	58.240	69.888	77.168	69.888
137.5	49.868	55.510	64.974	63.882	56.602	55.328	55.146	66.612	74.620	66.612
140.0	45.136	52.234	61.880	59.332	54.600	53.326	52.416	60.970	68.796	60.970
142.5	43.134	47.866	57.876	57.330	48.594	47.502	48.412	58.058	64.974	58.058
145.0	38.038	43.134	53.690	52.780	46.592	44.226	46.228	54.600	61.698	54.600
147.5	33.670	42.224	49.322	50.960	43.680	38.584	41.496	51.688	52.962	51.688
150.0	31.304	38.584	45.864	45.682	40.768	36.036	40.040	46.774	51.506	46.774
152.5	30.212	34.762	43.862	41.678	36.946	31.850	36.400	43.134	44.408	43.134
155.0	24.206	31.850	38.402	38.766	30.394	30.030	31.850	38.766	42.042	38.766
157.5	24.024	28.938	36.946	36.218	29.666	26.026	32.032	35.126	35.490	35.126
160.0	20.566	27.664	33.306	33.670	26.936	23.478	25.844	31.850	33.124	31.850
162.5	18.928	24.934	28.756	29.666	23.660	20.020	22.204	28.574	31.304	28.574
165.0	15.652	21.658	25.662	24.752	21.112	17.836	21.840	24.024	26.208	24.024
167.5	16.562	20.566	20.930	22.386	16.562	15.652	19.110	20.566	20.748	20.566
170.0	15.834	16.016	16.380	18.200	14.742	13.104	15.652	15.834	18.564	15.834
172.5	14.742	13.286	13.650	14.014	12.376	12.012	12.740	14.196	15.834	14.196
175.0	10.010	11.284	10.556	11.102	11.102	10.010	11.102	11.466	10.920	11.466
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	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622	1532.622
2.5	1535.170	1528.072	1523.886	1528.800	1537.354	1539.720	1525.524
5.0	1532.440	1529.346	1525.524	1529.710	1536.080	1538.264	1524.614
7.5	1523.886	1516.424	1522.794	1529.346	1531.530	1533.532	1525.888
10.0	1514.604	1505.140	1508.052	1514.240	1516.242	1521.884	1505.322
12.5	1500.408	1489.124	1491.490	1495.858	1500.590	1498.224	1488.578
15.0	1480.752	1468.194	1465.100	1474.382	1479.114	1479.478	1468.194
17.5	1456.910	1445.080	1439.074	1450.722	1454.180	1450.358	1444.534
20.0	1423.058	1416.324	1408.316	1425.788	1425.242	1419.600	1417.780
22.5	1387.204	1383.928	1375.556	1392.482	1394.666	1384.292	1381.744
25.0	1348.256	1349.530	1337.336	1354.626	1356.446	1348.620	1346.618
27.5	1310.218	1308.944	1298.570	1318.226	1317.134	1311.492	1310.582
30.0	1272.180	1271.998	1261.078	1279.642	1275.456	1267.448	1266.720
32.5	1229.774	1230.866	1215.032	1238.146	1236.144	1226.134	1230.320
35.0	1186.458	1188.460	1172.808	1197.742	1195.376	1183.182	1189.916
37.5	1141.686	1148.420	1130.402	1155.700	1153.880	1142.414	1147.692
40.0	1102.010	1104.558	1087.996	1115.842	1113.658	1099.280	1102.556
42.5	1058.694	1059.968	1046.864	1078.896	1075.256	1057.056	1061.970
45.0	1015.924	1017.016	1005.914	1038.856	1033.942	1012.284	1018.290
47.5	969.696	971.698	962.780	1001.000	995.176	969.878	979.160
50.0	926.926	925.652	923.468	959.140	953.680	927.290	933.660
52.5	885.430	881.062	879.970	921.466	912.002	884.884	888.524
55.0	838.292	836.654	835.926	879.242	872.690	837.746	843.570
57.5	792.246	792.792	795.522	838.474	830.102	794.248	798.434
60.0	748.384	746.746	750.932	796.432	786.968	750.568	753.844
62.5	701.428	695.968	706.888	751.660	745.472	704.886	703.248
65.0	654.472	649.740	661.024	705.978	697.788	657.566	655.564
67.5	606.788	601.692	613.158	658.658	650.650	608.426	605.332
70.0	557.102	551.278	564.564	609.882	604.786	560.378	558.740
72.5	507.416	501.956	517.244	560.742	553.462	511.602	509.236
75.0	460.278	452.998	469.196	511.966	504.868	461.370	459.004
77.5	406.770	400.946	418.964	462.280	454.818	410.046	405.678
80.0	355.810	351.806	369.096	408.954	404.222	361.270	355.446

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**CANDELA TABULATION - (Cont.)**

82.5	301.574	299.936	318.500	357.448	349.804	311.220	305.032
85.0	242.424	239.876	263.354	297.206	290.654	254.254	247.338
87.5	186.914	181.272	200.564	235.326	227.864	193.102	188.188
90.0	145.236	144.690	158.158	184.002	181.636	149.604	149.422
92.5	138.138	137.956	146.510	170.716	166.348	140.504	135.954
95.0	131.222	133.042	137.774	159.978	155.974	133.406	131.950
97.5	132.496	128.128	138.138	155.610	149.240	127.036	128.128
100.0	133.588	132.132	137.774	153.426	147.966	123.032	128.492
102.5	131.222	133.770	131.768	150.696	143.780	122.486	124.670
105.0	125.944	125.762	125.944	139.048	132.132	121.212	126.308
107.5	117.390	118.118	117.208	128.492	126.126	113.386	125.580
110.0	104.286	109.746	106.106	120.120	119.574	104.104	113.204
112.5	98.462	101.010	99.918	113.932	111.748	97.734	107.744
115.0	90.818	95.004	92.638	105.742	107.744	93.730	97.552
117.5	85.904	89.180	84.812	99.918	99.190	90.454	95.914
120.0	83.902	85.176	80.444	96.096	95.914	87.906	89.726
122.5	80.444	81.536	75.894	91.000	91.182	82.446	87.906
125.0	76.258	75.712	74.256	86.814	88.088	77.532	81.172
127.5	69.342	71.162	69.706	80.808	82.810	73.346	78.078
130.0	64.064	70.616	65.702	76.804	78.988	66.430	75.894
132.5	62.426	66.430	63.700	71.708	73.710	61.880	65.884
135.0	58.240	60.242	61.152	68.614	69.160	57.694	60.424
137.5	55.146	55.328	56.602	63.882	64.974	55.510	49.868
140.0	52.416	53.326	54.600	59.332	61.880	52.234	45.136
142.5	48.412	47.502	48.594	57.330	57.876	47.866	43.134
145.0	46.228	44.226	46.592	52.780	53.690	43.134	38.038
147.5	41.496	38.584	43.680	50.960	49.322	42.224	33.670
150.0	40.040	36.036	40.768	45.682	45.864	38.584	31.304
152.5	36.400	31.850	36.946	41.678	43.862	34.762	30.212
155.0	31.850	30.030	30.394	38.766	38.402	31.850	24.206
157.5	32.032	26.026	29.666	36.218	36.946	28.938	24.024
160.0	25.844	23.478	26.936	33.670	33.306	27.664	20.566
162.5	22.204	20.020	23.660	29.666	28.756	24.934	18.928
165.0	21.840	17.836	21.112	24.752	25.662	21.658	15.652
167.5	19.110	15.652	16.562	22.386	20.930	20.566	16.562
170.0	15.652	13.104	14.742	18.200	16.380	16.016	15.834
172.5	12.740	12.012	12.376	14.014	13.650	13.286	14.742
175.0	11.102	10.010	11.102	11.102	10.556	11.284	10.010
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	561.85	N.A.	10.20
0-30	1184.27	N.A.	21.50
0-40	1929.16	N.A.	35.00
0-60	3483.22	N.A.	63.10
0-80	4655.28	N.A.	84.40
0-90	4946.22	N.A.	89.60
10-90	4800.45	N.A.	87.00
20-40	1367.31	N.A.	24.80
20-50	2157.51	N.A.	39.10
40-70	2220.98	N.A.	40.20
60-80	1172.06	N.A.	21.20
70-80	505.14	N.A.	9.20
80-90	290.93	N.A.	5.30
90-110	295.41	N.A.	5.40
90-120	394.57	N.A.	7.20
90-130	467.40	N.A.	8.50
90-150	548.21	N.A.	9.90
90-180	572.11	N.A.	10.40
110-180	276.70	N.A.	5.00
0-180	5518.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.77
10-20	416.09
20-30	622.42
30-40	744.89
40-50	790.20
50-60	763.86
60-70	666.92
70-80	505.14
80-90	290.93
90-100	159.81
100-110	135.61
110-120	99.16
120-130	72.83
130-140	49.90
140-150	30.91
150-160	16.32
160-170	6.50
170-180	1.07

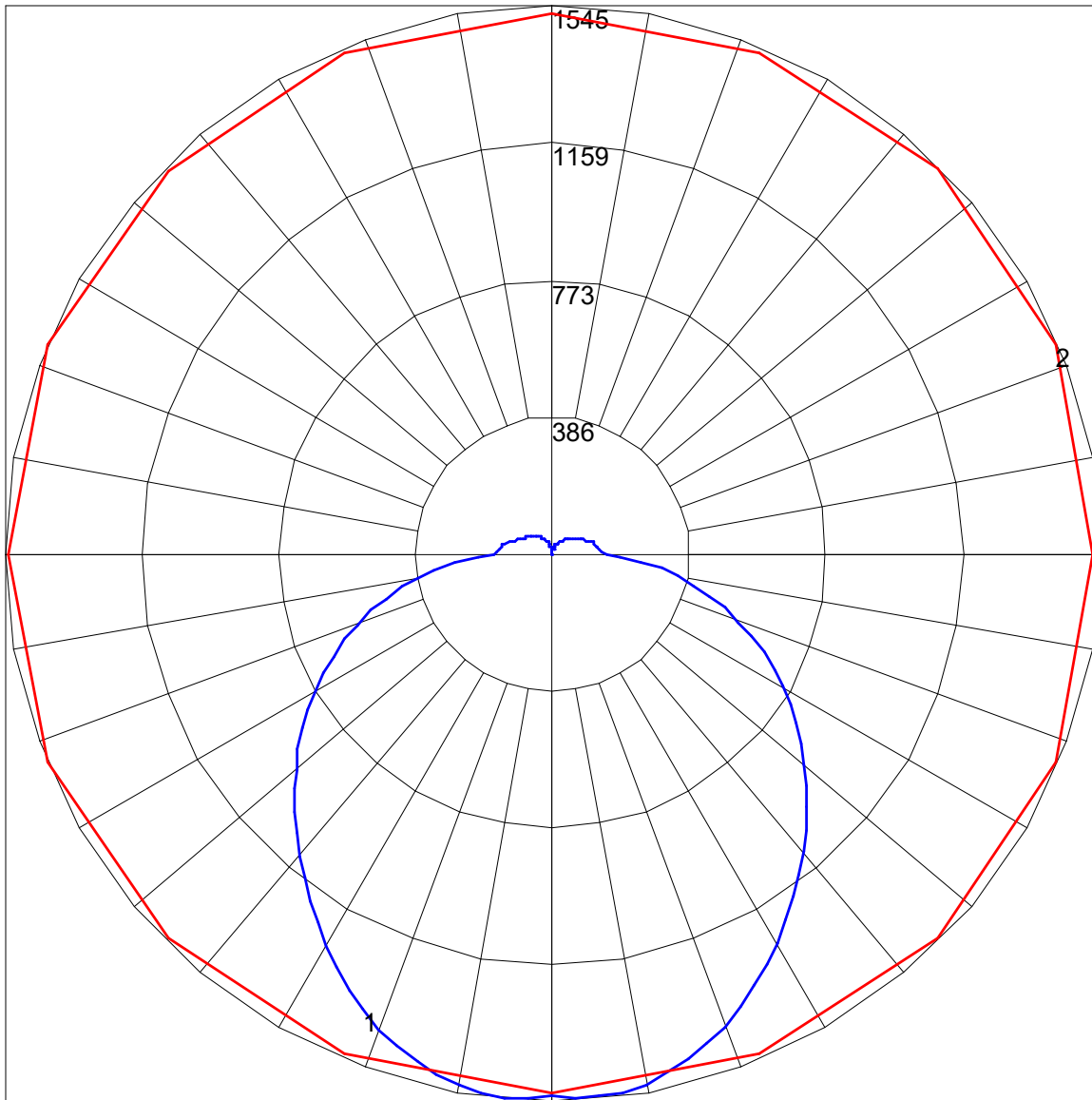
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1545.362 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.)