



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-33-LED35-MO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTRI-33-LED35-MO
 [TESTLAB] INTERTEK
 [ISSUE DATE] 8-9-18
 [MANUFAC] PRUDENTIAL
 [_TOTALLUMINAIRELUMENS] 4579

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.29 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	30117	19194	16654
55	30321	17166	14282
65	31496	15057	12012
75	34384	12540	9430
85	45088	9155	6334

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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>
0.0	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345
2.5	1685.205	1672.650	1676.700	1684.530	1688.040	1681.695	1676.430	1671.570	1690.200	1671.570
5.0	1690.065	1675.620	1679.400	1688.175	1688.850	1678.590	1672.650	1674.000	1689.120	1674.000
7.5	1673.730	1663.200	1670.625	1679.805	1685.610	1674.540	1672.650	1670.895	1695.330	1670.895
10.0	1660.635	1647.135	1661.175	1667.385	1671.570	1664.415	1652.535	1657.125	1675.755	1657.125
12.5	1645.920	1628.775	1647.135	1650.375	1652.805	1642.545	1634.985	1643.625	1654.560	1643.625
15.0	1623.240	1606.770	1625.805	1627.830	1629.180	1619.730	1612.305	1615.545	1633.500	1615.545
17.5	1597.725	1579.365	1597.320	1601.235	1597.050	1596.105	1587.870	1592.460	1607.580	1592.460
20.0	1565.055	1545.885	1563.840	1571.130	1563.570	1566.675	1554.255	1556.955	1584.630	1556.955
22.5	1530.900	1512.675	1528.875	1534.140	1526.715	1534.680	1520.235	1519.560	1537.380	1519.560
25.0	1497.015	1471.095	1487.430	1495.530	1487.295	1494.180	1485.135	1482.840	1499.040	1482.840
27.5	1454.220	1428.705	1446.660	1460.970	1445.850	1453.275	1445.850	1448.145	1462.455	1448.145
30.0	1405.350	1388.610	1405.350	1414.260	1401.840	1411.425	1400.085	1400.085	1424.115	1400.085
32.5	1363.635	1343.655	1364.310	1371.465	1356.075	1366.200	1353.375	1357.560	1377.675	1357.560
35.0	1321.245	1298.025	1319.355	1326.915	1310.175	1318.815	1308.015	1314.900	1335.285	1314.900
37.5	1274.940	1252.665	1274.670	1284.255	1265.085	1271.970	1263.735	1271.025	1292.760	1271.025
40.0	1224.990	1206.630	1230.255	1240.110	1222.965	1223.775	1218.915	1230.795	1248.750	1230.795
42.5	1176.795	1161.540	1187.190	1198.125	1175.175	1177.605	1173.825	1184.490	1206.900	1184.490
45.0	1134.540	1116.990	1142.505	1155.600	1126.440	1130.085	1126.575	1141.290	1165.185	1141.290
47.5	1088.640	1070.280	1102.005	1111.320	1080.945	1083.375	1081.485	1099.710	1120.635	1099.710
50.0	1041.525	1025.460	1056.375	1068.390	1037.340	1035.045	1036.260	1054.755	1079.055	1054.755
52.5	991.305	978.885	1013.040	1023.975	988.335	986.850	989.010	1007.640	1034.505	1007.640
55.0	943.380	932.850	968.625	978.615	940.140	937.710	938.520	963.630	991.710	963.630
57.5	895.185	885.465	922.995	932.985	894.240	888.030	889.920	917.460	945.000	917.460
60.0	848.070	837.675	875.745	887.760	844.695	838.080	840.240	868.050	898.155	868.050
62.5	796.635	788.265	828.360	838.080	795.150	787.050	788.805	818.235	846.450	818.235
65.0	743.580	737.235	777.195	787.320	744.930	731.025	736.020	768.825	795.150	768.825
67.5	689.310	687.015	726.705	736.560	690.525	678.915	682.965	716.040	744.795	716.040
70.0	637.200	632.745	673.380	683.775	637.335	622.620	628.020	660.420	688.905	660.420
72.5	585.900	580.635	621.270	630.450	584.145	570.105	574.290	606.825	630.990	606.825
75.0	529.065	526.095	567.270	575.235	531.090	515.160	519.615	551.205	577.395	551.205
77.5	472.365	473.310	512.325	520.425	474.660	461.025	463.725	495.315	518.805	495.315
80.0	418.635	417.150	457.650	465.750	421.740	405.810	409.050	440.370	463.050	440.370
82.5	363.690	361.665	401.625	409.185	365.850	350.325	355.185	384.480	403.110	384.480
85.0	301.995	303.345	343.170	348.840	309.825	291.060	294.840	326.160	341.955	326.160
87.5	225.720	228.555	265.140	269.055	238.410	213.030	214.650	244.215	255.555	244.215
90.0	153.765	156.735	188.190	197.370	169.560	157.005	155.655	180.630	194.130	180.630
92.5	141.345	143.775	172.260	181.305	157.680	148.095	148.635	169.560	180.495	169.560
95.0	139.725	139.995	167.400	178.470	164.160	155.250	157.815	174.285	174.420	174.285
97.5	151.200	146.880	172.395	185.895	173.070	168.345	169.020	176.580	180.900	176.580
100.0	161.325	153.225	168.885	175.230	159.705	160.245	158.085	164.295	179.955	164.295
102.5	158.760	150.120	159.570	161.190	144.855	146.745	145.395	153.090	174.285	153.090
105.0	150.795	142.155	154.575	150.255	134.325	133.785	132.300	147.690	165.645	147.690
107.5	140.130	136.080	149.175	142.830	122.985	124.875	127.440	142.695	161.325	142.695
110.0	135.000	132.975	144.585	135.945	117.720	116.505	122.850	137.160	155.520	137.160
112.5	128.790	127.035	135.135	131.355	113.940	111.645	117.180	130.275	150.930	130.275
115.0	125.820	117.855	126.090	125.415	108.945	107.595	108.810	122.850	145.125	122.850
117.5	116.640	104.085	119.340	119.880	104.895	103.275	102.870	119.475	137.700	119.475
120.0	111.915	94.500	112.995	113.940	101.925	98.685	93.555	113.265	131.490	113.265
122.5	98.820	89.640	106.110	109.620	97.875	93.150	88.155	105.705	126.495	105.705
125.0	88.425	84.645	100.440	103.005	91.935	90.045	83.430	101.655	119.205	101.655
127.5	80.730	79.110	95.715	98.145	87.210	83.295	78.705	96.795	112.590	96.795
130.0	74.520	75.600	90.450	93.150	82.620	76.680	74.655	89.640	105.030	89.640
132.5	70.605	73.035	86.670	88.290	76.275	72.765	71.415	84.240	97.470	84.240

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CANDELA TABULATION - (Cont.)

135.0	66.015	68.580	83.970	83.295	68.985	68.310	67.230	79.650	92.070	79.650
137.5	63.450	67.230	81.810	83.160	67.095	64.125	64.260	74.655	85.590	74.655
140.0	57.510	64.530	78.300	78.030	60.885	59.400	60.750	72.090	81.945	72.090
142.5	55.350	60.480	75.330	73.980	58.455	53.460	56.970	69.120	75.870	69.120
145.0	50.895	58.995	69.390	70.335	52.650	49.815	52.245	64.260	71.145	64.260
147.5	46.980	57.915	67.230	65.745	49.680	45.900	49.275	59.670	64.125	59.670
150.0	43.065	56.700	61.695	62.775	47.115	41.715	45.765	55.755	60.615	55.755
152.5	40.770	52.785	58.860	56.700	45.090	37.935	44.145	52.245	53.730	52.245
155.0	35.640	49.410	53.730	51.570	39.150	34.290	41.175	47.655	47.250	47.655
157.5	37.260	46.035	47.925	46.035	38.610	33.480	40.365	42.795	42.930	42.795
160.0	38.880	39.420	42.930	42.390	34.560	32.805	35.910	38.475	38.610	38.475
162.5	34.830	34.695	36.855	35.370	30.915	31.320	31.995	33.750	31.590	33.750
165.0	29.970	31.320	31.860	29.835	26.055	25.920	27.135	28.215	29.160	28.215
167.5	24.570	24.840	27.270	27.270	22.815	21.060	22.140	22.950	23.895	22.950
170.0	21.195	20.925	22.005	20.655	20.115	17.550	17.145	19.440	18.765	19.440
172.5	16.470	17.280	18.090	18.495	15.795	14.715	14.445	13.635	13.365	13.635
175.0	13.770	13.770	13.770	13.635	13.230	12.825	11.475	11.205	10.395	11.205
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	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345	1680.345
2.5	1676.430	1681.695	1688.040	1684.530	1676.700	1672.650	1685.205
5.0	1672.650	1678.590	1688.850	1688.175	1679.400	1675.620	1690.065
7.5	1672.650	1674.540	1685.610	1679.805	1670.625	1663.200	1673.730
10.0	1652.535	1664.415	1671.570	1667.385	1661.175	1647.135	1660.635
12.5	1634.985	1642.545	1652.805	1650.375	1647.135	1628.775	1645.920
15.0	1612.305	1619.730	1629.180	1627.830	1625.805	1606.770	1623.240
17.5	1587.870	1596.105	1597.050	1601.235	1597.320	1579.365	1597.725
20.0	1554.255	1566.675	1563.570	1571.130	1563.840	1545.885	1565.055
22.5	1520.235	1534.680	1526.715	1534.140	1528.875	1512.675	1530.900
25.0	1485.135	1494.180	1487.295	1495.530	1487.430	1471.095	1497.015
27.5	1445.850	1453.275	1445.850	1460.970	1446.660	1428.705	1454.220
30.0	1400.085	1411.425	1401.840	1414.260	1405.350	1388.610	1405.350
32.5	1353.375	1366.200	1356.075	1371.465	1364.310	1343.655	1363.635
35.0	1308.015	1318.815	1310.175	1326.915	1319.355	1298.025	1321.245
37.5	1263.735	1271.970	1265.085	1284.255	1274.670	1252.665	1274.940
40.0	1218.915	1223.775	1222.965	1240.110	1230.255	1206.630	1224.990
42.5	1173.825	1177.605	1175.175	1198.125	1187.190	1161.540	1176.795
45.0	1126.575	1130.085	1126.440	1155.600	1142.505	1116.990	1134.540
47.5	1081.485	1083.375	1080.945	1111.320	1102.005	1070.280	1088.640
50.0	1036.260	1035.045	1037.340	1068.390	1056.375	1025.460	1041.525
52.5	989.010	986.850	988.335	1023.975	1013.040	978.885	991.305
55.0	938.520	937.710	940.140	978.615	968.625	932.850	943.380
57.5	889.920	888.030	894.240	932.985	922.995	885.465	895.185
60.0	840.240	838.080	844.695	887.760	875.745	837.675	848.070
62.5	788.805	787.050	795.150	838.080	828.360	788.265	796.635
65.0	736.020	731.025	744.930	787.320	777.195	737.235	743.580
67.5	682.965	678.915	690.525	736.560	726.705	687.015	689.310
70.0	628.020	622.620	637.335	683.775	673.380	632.745	637.200
72.5	574.290	570.105	584.145	630.450	621.270	580.635	585.900
75.0	519.615	515.160	531.090	575.235	567.270	526.095	529.065
77.5	463.725	461.025	474.660	520.425	512.325	473.310	472.365
80.0	409.050	405.810	421.740	465.750	457.650	417.150	418.635

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CANDELA TABULATION - (Cont.)

82.5	355.185	350.325	365.850	409.185	401.625	361.665	363.690
85.0	294.840	291.060	309.825	348.840	343.170	303.345	301.995
87.5	214.650	213.030	238.410	269.055	265.140	228.555	225.720
90.0	155.655	157.005	169.560	197.370	188.190	156.735	153.765
92.5	148.635	148.095	157.680	181.305	172.260	143.775	141.345
95.0	157.815	155.250	164.160	178.470	167.400	139.995	139.725
97.5	169.020	168.345	173.070	185.895	172.395	146.880	151.200
100.0	158.085	160.245	159.705	175.230	168.885	153.225	161.325
102.5	145.395	146.745	144.855	161.190	159.570	150.120	158.760
105.0	132.300	133.785	134.325	150.255	154.575	142.155	150.795
107.5	127.440	124.875	122.985	142.830	149.175	136.080	140.130
110.0	122.850	116.505	117.720	135.945	144.585	132.975	135.000
112.5	117.180	111.645	113.940	131.355	135.135	127.035	128.790
115.0	108.810	107.595	108.945	125.415	126.090	117.855	125.820
117.5	102.870	103.275	104.895	119.880	119.340	104.085	116.640
120.0	93.555	98.685	101.925	113.940	112.995	94.500	111.915
122.5	88.155	93.150	97.875	109.620	106.110	89.640	98.820
125.0	83.430	90.045	91.935	103.005	100.440	84.645	88.425
127.5	78.705	83.295	87.210	98.145	95.715	79.110	80.730
130.0	74.655	76.680	82.620	93.150	90.450	75.600	74.520
132.5	71.415	72.765	76.275	88.290	86.670	73.035	70.605
135.0	67.230	68.310	68.985	83.295	83.970	68.580	66.015
137.5	64.260	64.125	67.095	83.160	81.810	67.230	63.450
140.0	60.750	59.400	60.885	78.030	78.300	64.530	57.510
142.5	56.970	53.460	58.455	73.980	75.330	60.480	55.350
145.0	52.245	49.815	52.650	70.335	69.390	58.995	50.895
147.5	49.275	45.900	49.680	65.745	67.230	57.915	46.980
150.0	45.765	41.715	47.115	62.775	61.695	56.700	43.065
152.5	44.145	37.935	45.090	56.700	58.860	52.785	40.770
155.0	41.175	34.290	39.150	51.570	53.730	49.410	35.640
157.5	40.365	33.480	38.610	46.035	47.925	46.035	37.260
160.0	35.910	32.805	34.560	42.390	42.930	39.420	38.880
162.5	31.995	31.320	30.915	35.370	36.855	34.695	34.830
165.0	27.135	25.920	26.055	29.835	31.860	31.320	29.970
167.5	22.140	21.060	22.815	27.270	27.270	24.840	24.570
170.0	17.145	17.550	20.115	20.655	22.005	20.925	21.195
172.5	14.445	14.715	15.795	18.495	18.090	17.280	16.470
175.0	11.475	12.825	13.230	13.635	13.770	13.770	13.770
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	616.93	N.A.	10.00
0-30	1302.84	N.A.	21.10
0-40	2127.1	N.A.	34.40
0-60	3858.76	N.A.	62.40
0-80	5180.15	N.A.	83.80
0-90	5516.79	N.A.	89.20
10-90	5356.97	N.A.	86.60
20-40	1510.17	N.A.	24.40
20-50	2388.36	N.A.	38.60
40-70	2480.6	N.A.	40.10
60-80	1321.39	N.A.	21.40
70-80	572.45	N.A.	9.30
80-90	336.64	N.A.	5.40
90-110	334.17	N.A.	5.40
90-120	452.58	N.A.	7.30
90-130	537.97	N.A.	8.70
90-150	634.73	N.A.	10.30
90-180	665.68	N.A.	10.80
110-180	331.51	N.A.	5.40
0-180	6182.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	159.82
10-20	457.11
20-30	685.91
30-40	824.26
40-50	878.19
50-60	853.47
60-70	748.94
70-80	572.45
80-90	336.64
90-100	180.01
100-110	154.16
110-120	118.42
120-130	85.39
130-140	58.75
140-150	38.01
150-160	21.22
160-170	8.44
170-180	1.29

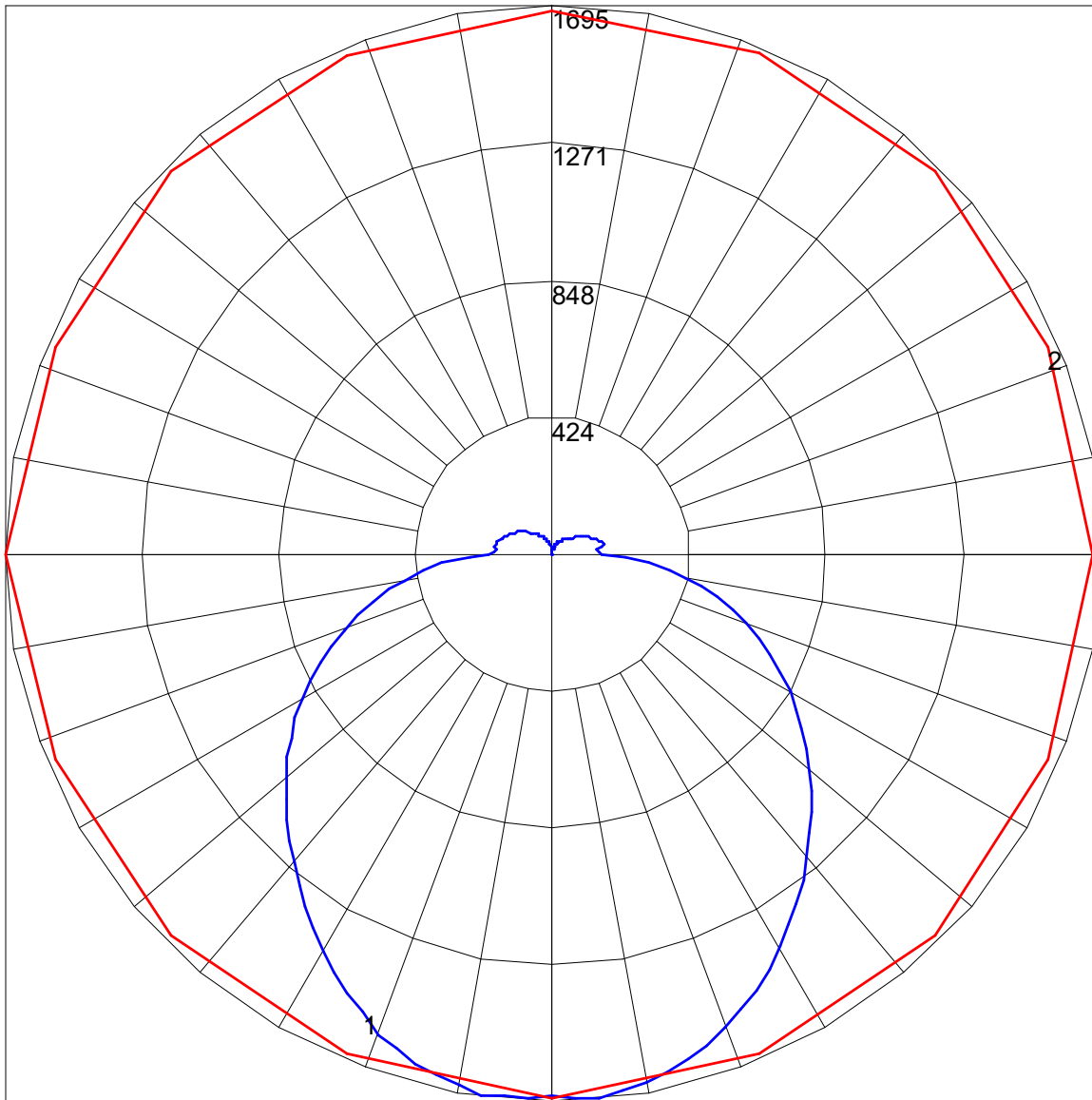
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	104	99	94	89	100	95	91	87	89	85	82	83	80	77	78	75	73	70
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	67	63	60	57
3	85	74	65	58	82	71	63	57	67	60	54	63	57	52	59	54	50	47
4	78	65	56	49	74	63	54	48	59	52	46	55	49	44	52	47	42	40
5	71	58	48	41	68	56	47	41	53	45	39	49	43	38	47	41	36	34
6	66	52	43	36	63	50	42	35	47	40	34	45	38	33	42	36	32	30
7	61	47	38	32	58	46	37	31	43	36	30	41	34	29	38	33	28	26
8	57	43	34	28	54	42	33	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	33	27	23	21
10	49	36	28	23	48	35	27	22	33	26	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 1695.33 Located At Horizontal Angle = 180, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)