



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-PRO-33-LED35-HO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTRI-33-LED35-HO
 [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	12960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	112
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	63133	40237	34912
55	63563	35985	29939
65	66026	31565	25180
75	72079	26288	19767
85	94518	19193	13278

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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	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501
2.5	3532.689	3506.370	3514.860	3531.274	3538.632	3525.331	3514.294	3504.106	3543.160	3504.106
5.0	3542.877	3512.596	3520.520	3538.915	3540.330	3518.822	3506.370	3509.200	3540.896	3509.200
7.5	3508.634	3486.560	3502.125	3521.369	3533.538	3510.332	3506.370	3502.691	3553.914	3502.691
10.0	3481.183	3452.883	3482.315	3495.333	3504.106	3489.107	3464.203	3473.825	3512.879	3473.825
12.5	3450.336	3414.395	3452.883	3459.675	3464.769	3443.261	3427.413	3445.525	3468.448	3445.525
15.0	3402.792	3368.266	3408.169	3412.414	3415.244	3395.434	3379.869	3386.661	3424.300	3386.661
17.5	3349.305	3310.817	3348.456	3356.663	3347.890	3345.909	3328.646	3338.268	3369.964	3338.268
20.0	3280.819	3240.633	3278.272	3293.554	3277.706	3284.215	3258.179	3263.839	3321.854	3263.839
22.5	3209.220	3171.015	3204.975	3216.012	3200.447	3217.144	3186.863	3185.448	3222.804	3185.448
25.0	3138.187	3083.851	3118.094	3135.074	3117.811	3132.244	3113.283	3108.472	3142.432	3108.472
27.5	3048.476	2994.989	3032.628	3062.626	3030.930	3046.495	3030.930	3035.741	3065.739	3035.741
30.0	2946.030	2910.938	2946.030	2964.708	2938.672	2958.765	2934.993	2934.993	2985.367	2934.993
32.5	2858.583	2816.699	2859.998	2874.997	2842.735	2863.960	2837.075	2845.848	2888.015	2845.848
35.0	2769.721	2721.045	2765.759	2781.607	2746.515	2764.627	2741.987	2756.420	2799.153	2756.420
37.5	2672.652	2625.957	2672.086	2692.179	2651.993	2666.426	2649.163	2664.445	2710.008	2664.445
40.0	2567.942	2529.454	2578.979	2599.638	2563.697	2565.395	2555.207	2580.111	2617.750	2580.111
42.5	2466.911	2434.932	2488.702	2511.625	2463.515	2468.609	2460.685	2483.042	2530.020	2483.042
45.0	2378.332	2341.542	2395.029	2422.480	2361.352	2368.993	2361.635	2392.482	2442.573	2392.482
47.5	2282.112	2243.624	2310.129	2329.656	2265.981	2271.075	2267.113	2305.318	2349.183	2305.318
50.0	2183.345	2149.668	2214.475	2239.662	2174.572	2169.761	2172.308	2211.079	2262.019	2211.079
52.5	2078.069	2052.033	2123.632	2146.555	2071.843	2068.730	2073.258	2112.312	2168.629	2112.312
55.0	1977.604	1955.530	2030.525	2051.467	1970.812	1965.718	1967.416	2020.054	2078.918	2020.054
57.5	1876.573	1856.197	1934.871	1955.813	1874.592	1861.574	1865.536	1923.268	1981.000	1923.268
60.0	1777.806	1756.015	1835.821	1861.008	1770.731	1756.864	1761.392	1819.690	1882.799	1819.690
62.5	1669.983	1652.437	1736.488	1756.864	1666.870	1649.890	1653.569	1715.263	1774.410	1715.263
65.0	1558.764	1545.463	1629.231	1650.456	1561.594	1532.445	1542.916	1611.685	1666.870	1611.685
67.5	1444.998	1440.187	1523.389	1544.048	1447.545	1423.207	1431.697	1501.032	1561.311	1501.032
70.0	1335.760	1326.421	1411.604	1433.395	1336.043	1305.196	1316.516	1384.436	1444.149	1384.436
72.5	1228.220	1217.183	1302.366	1321.610	1224.541	1195.109	1203.882	1272.085	1322.742	1272.085
75.0	1109.077	1102.851	1189.166	1205.863	1113.322	1079.928	1089.267	1155.489	1210.391	1155.489
77.5	990.217	992.198	1073.985	1090.965	995.028	966.445	972.105	1038.327	1087.569	1038.327
80.0	877.583	874.470	959.370	976.350	884.092	850.698	857.490	923.146	970.690	923.146
82.5	762.402	758.157	841.925	857.773	766.930	734.385	744.573	805.984	845.038	805.984
85.0	633.071	635.901	719.386	731.272	649.485	610.148	618.072	683.728	716.839	683.728
87.5	473.176	479.119	555.812	564.019	499.778	446.574	449.970	511.947	535.719	511.947
90.0	322.337	328.563	394.502	413.746	355.448	329.129	326.299	378.654	406.954	378.654
92.5	296.301	301.395	361.108	380.069	330.544	310.451	311.583	355.448	378.371	355.448
95.0	292.905	293.471	350.920	374.126	344.128	325.450	330.827	365.353	365.636	365.353
97.5	316.960	307.904	361.391	389.691	362.806	352.901	354.316	370.164	379.220	370.164
100.0	338.185	321.205	354.033	367.334	334.789	335.921	331.393	344.411	377.239	344.411
102.5	332.808	314.696	334.506	337.902	303.659	307.621	304.791	320.922	365.353	320.922
105.0	316.111	297.999	324.035	314.979	281.585	280.453	277.340	309.602	347.241	309.602
107.5	293.754	285.264	312.715	299.414	257.813	261.775	267.152	299.131	338.185	299.131
110.0	283.000	278.755	303.093	284.981	246.776	244.229	257.530	287.528	326.016	287.528
112.5	269.982	266.303	283.283	275.359	238.852	234.041	245.644	273.095	316.394	273.095
115.0	263.756	247.059	264.322	262.907	228.381	225.551	228.098	257.530	304.225	257.530
117.5	244.512	218.193	250.172	251.304	219.891	216.495	215.646	250.455	288.660	250.455
120.0	234.607	198.100	236.871	238.852	213.665	206.873	196.119	237.437	275.642	237.437
122.5	207.156	187.912	222.438	229.796	205.175	195.270	184.799	221.589	265.171	221.589
125.0	185.365	177.441	210.552	215.929	192.723	188.761	174.894	213.099	249.889	213.099
127.5	169.234	165.838	200.647	205.741	182.818	174.611	164.989	202.911	236.022	202.911
130.0	156.216	158.480	189.610	195.270	173.196	160.744	156.499	187.912	220.174	187.912
132.5	148.009	153.103	181.686	185.082	159.895	152.537	149.707	176.592	204.326	176.592

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CANDELA TABULATION - (Cont.)

135.0	138.387	143.764	176.026	174.611	144.613	143.198	140.934	166.970	193.006	166.970
137.5	133.010	140.934	171.498	174.328	140.651	134.425	134.708	156.499	179.422	156.499
140.0	120.558	135.274	164.140	163.574	127.633	124.520	127.350	151.122	171.781	151.122
142.5	116.030	126.784	157.914	155.084	122.539	112.068	119.426	144.896	159.046	144.896
145.0	106.691	123.671	145.462	147.443	110.370	104.427	109.521	134.708	149.141	134.708
147.5	98.484	121.407	140.934	137.821	104.144	96.220	103.295	125.086	134.425	125.086
150.0	90.277	118.860	129.331	131.595	98.767	87.447	95.937	116.879	127.067	116.879
152.5	85.466	110.653	123.388	118.860	94.522	79.523	92.541	109.521	112.634	109.521
155.0	74.712	103.578	112.634	108.106	82.070	71.882	86.315	99.899	99.050	99.899
157.5	78.108	96.503	100.465	96.503	80.938	70.184	84.617	89.711	89.994	89.711
160.0	81.504	82.636	89.994	88.862	72.448	68.769	75.278	80.655	80.938	80.655
162.5	73.014	72.731	77.259	74.146	64.807	65.656	67.071	70.750	66.222	70.750
165.0	62.826	65.656	66.788	62.543	54.619	54.336	56.883	59.147	61.128	59.147
167.5	51.506	52.072	57.166	57.166	47.827	44.148	46.412	48.110	50.091	48.110
170.0	44.431	43.865	46.129	43.299	42.167	36.790	35.941	40.752	39.337	40.752
172.5	34.526	36.224	37.922	38.771	33.111	30.847	30.281	28.583	28.017	28.583
175.0	28.866	28.866	28.866	28.583	27.734	26.885	24.055	23.489	21.791	23.489
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	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501	3522.501
2.5	3514.294	3525.331	3538.632	3531.274	3514.860	3506.370	3532.689
5.0	3506.370	3518.822	3540.330	3538.915	3520.520	3512.596	3542.877
7.5	3506.370	3510.332	3533.538	3521.369	3502.125	3486.560	3508.634
10.0	3464.203	3489.107	3504.106	3495.333	3482.315	3452.883	3481.183
12.5	3427.413	3443.261	3464.769	3459.675	3452.883	3414.395	3450.336
15.0	3379.869	3395.434	3415.244	3412.414	3408.169	3368.266	3402.792
17.5	3328.646	3345.909	3347.890	3356.663	3348.456	3310.817	3349.305
20.0	3258.179	3284.215	3277.706	3293.554	3278.272	3240.633	3280.819
22.5	3186.863	3217.144	3200.447	3216.012	3204.975	3171.015	3209.220
25.0	3113.283	3132.244	3117.811	3135.074	3118.094	3083.851	3138.187
27.5	3030.930	3046.495	3030.930	3062.626	3032.628	2994.989	3048.476
30.0	2934.993	2958.765	2938.672	2964.708	2946.030	2910.938	2946.030
32.5	2837.075	2863.960	2842.735	2874.997	2859.998	2816.699	2858.583
35.0	2741.987	2764.627	2746.515	2781.607	2765.759	2721.045	2769.721
37.5	2649.163	2666.426	2651.993	2692.179	2672.086	2625.957	2672.652
40.0	2555.207	2565.395	2563.697	2599.638	2578.979	2529.454	2567.942
42.5	2460.685	2468.609	2463.515	2511.625	2488.702	2434.932	2466.911
45.0	2361.635	2368.993	2361.352	2422.480	2395.029	2341.542	2378.332
47.5	2267.113	2271.075	2265.981	2329.656	2310.129	2243.624	2282.112
50.0	2172.308	2169.761	2174.572	2239.662	2214.475	2149.668	2183.345
52.5	2073.258	2068.730	2071.843	2146.555	2123.632	2052.033	2078.069
55.0	1967.416	1965.718	1970.812	2051.467	2030.525	1955.530	1977.604
57.5	1865.536	1861.574	1874.592	1955.813	1934.871	1856.197	1876.573
60.0	1761.392	1756.864	1770.731	1861.008	1835.821	1756.015	1777.806
62.5	1653.569	1649.890	1666.870	1756.864	1736.488	1652.437	1669.983
65.0	1542.916	1532.445	1561.594	1650.456	1629.231	1545.463	1558.764
67.5	1431.697	1423.207	1447.545	1544.048	1523.389	1440.187	1444.998
70.0	1316.516	1305.196	1336.043	1433.395	1411.604	1326.421	1335.760
72.5	1203.882	1195.109	1224.541	1321.610	1302.366	1217.183	1228.220
75.0	1089.267	1079.928	1113.322	1205.863	1189.166	1102.851	1109.077
77.5	972.105	966.445	995.028	1090.965	1073.985	992.198	990.217
80.0	857.490	850.698	884.092	976.350	959.370	874.470	877.583

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CANDELA TABULATION - (Cont.)

82.5	744.573	734.385	766.930	857.773	841.925	758.157	762.402
85.0	618.072	610.148	649.485	731.272	719.386	635.901	633.071
87.5	449.970	446.574	499.778	564.019	555.812	479.119	473.176
90.0	326.299	329.129	355.448	413.746	394.502	328.563	322.337
92.5	311.583	310.451	330.544	380.069	361.108	301.395	296.301
95.0	330.827	325.450	344.128	374.126	350.920	293.471	292.905
97.5	354.316	352.901	362.806	389.691	361.391	307.904	316.960
100.0	331.393	335.921	334.789	367.334	354.033	321.205	338.185
102.5	304.791	307.621	303.659	337.902	334.506	314.696	332.808
105.0	277.340	280.453	281.585	314.979	324.035	297.999	316.111
107.5	267.152	261.775	257.813	299.414	312.715	285.264	293.754
110.0	257.530	244.229	246.776	284.981	303.093	278.755	283.000
112.5	245.644	234.041	238.852	275.359	283.283	266.303	269.982
115.0	228.098	225.551	228.381	262.907	264.322	247.059	263.756
117.5	215.646	216.495	219.891	251.304	250.172	218.193	244.512
120.0	196.119	206.873	213.665	238.852	236.871	198.100	234.607
122.5	184.799	195.270	205.175	229.796	222.438	187.912	207.156
125.0	174.894	188.761	192.723	215.929	210.552	177.441	185.365
127.5	164.989	174.611	182.818	205.741	200.647	165.838	169.234
130.0	156.499	160.744	173.196	195.270	189.610	158.480	156.216
132.5	149.707	152.537	159.895	185.082	181.686	153.103	148.009
135.0	140.934	143.198	144.613	174.611	176.026	143.764	138.387
137.5	134.708	134.425	140.651	174.328	171.498	140.934	133.010
140.0	127.350	124.520	127.633	163.574	164.140	135.274	120.558
142.5	119.426	112.068	122.539	155.084	157.914	126.784	116.030
145.0	109.521	104.427	110.370	147.443	145.462	123.671	106.691
147.5	103.295	96.220	104.144	137.821	140.934	121.407	98.484
150.0	95.937	87.447	98.767	131.595	129.331	118.860	90.277
152.5	92.541	79.523	94.522	118.860	123.388	110.653	85.466
155.0	86.315	71.882	82.070	108.106	112.634	103.578	74.712
157.5	84.617	70.184	80.938	96.503	100.465	96.503	78.108
160.0	75.278	68.769	72.448	88.862	89.994	82.636	81.504
162.5	67.071	65.656	64.807	74.146	77.259	72.731	73.014
165.0	56.883	54.336	54.619	62.543	66.788	65.656	62.826
167.5	46.412	44.148	47.827	57.166	57.166	52.072	51.506
170.0	35.941	36.790	42.167	43.299	46.129	43.865	44.431
172.5	30.281	30.847	33.111	38.771	37.922	36.224	34.526
175.0	24.055	26.885	27.734	28.583	28.866	28.866	28.866
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	1293.27	N.A.	10.00
0-30	2731.15	N.A.	21.10
0-40	4459.03	N.A.	34.40
0-60	8089.1	N.A.	62.40
0-80	10859.13	N.A.	83.80
0-90	11564.82	N.A.	89.20
10-90	11229.79	N.A.	86.60
20-40	3165.76	N.A.	24.40
20-50	5006.71	N.A.	38.60
40-70	5200.07	N.A.	40.10
60-80	2770.03	N.A.	21.40
70-80	1200.03	N.A.	9.30
80-90	705.69	N.A.	5.40
90-110	700.51	N.A.	5.40
90-120	948.74	N.A.	7.30
90-130	1127.75	N.A.	8.70
90-150	1330.59	N.A.	10.30
90-180	1395.45	N.A.	10.80
110-180	694.94	N.A.	5.40
0-180	12960.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	335.04
10-20	958.23
20-30	1437.87
30-40	1727.89
40-50	1840.95
50-60	1789.12
60-70	1569.99
70-80	1200.03
80-90	705.69
90-100	377.35
100-110	323.16
110-120	248.23
120-130	179.01
130-140	123.16
140-150	79.68
150-160	44.48
160-170	17.69
170-180	2.69

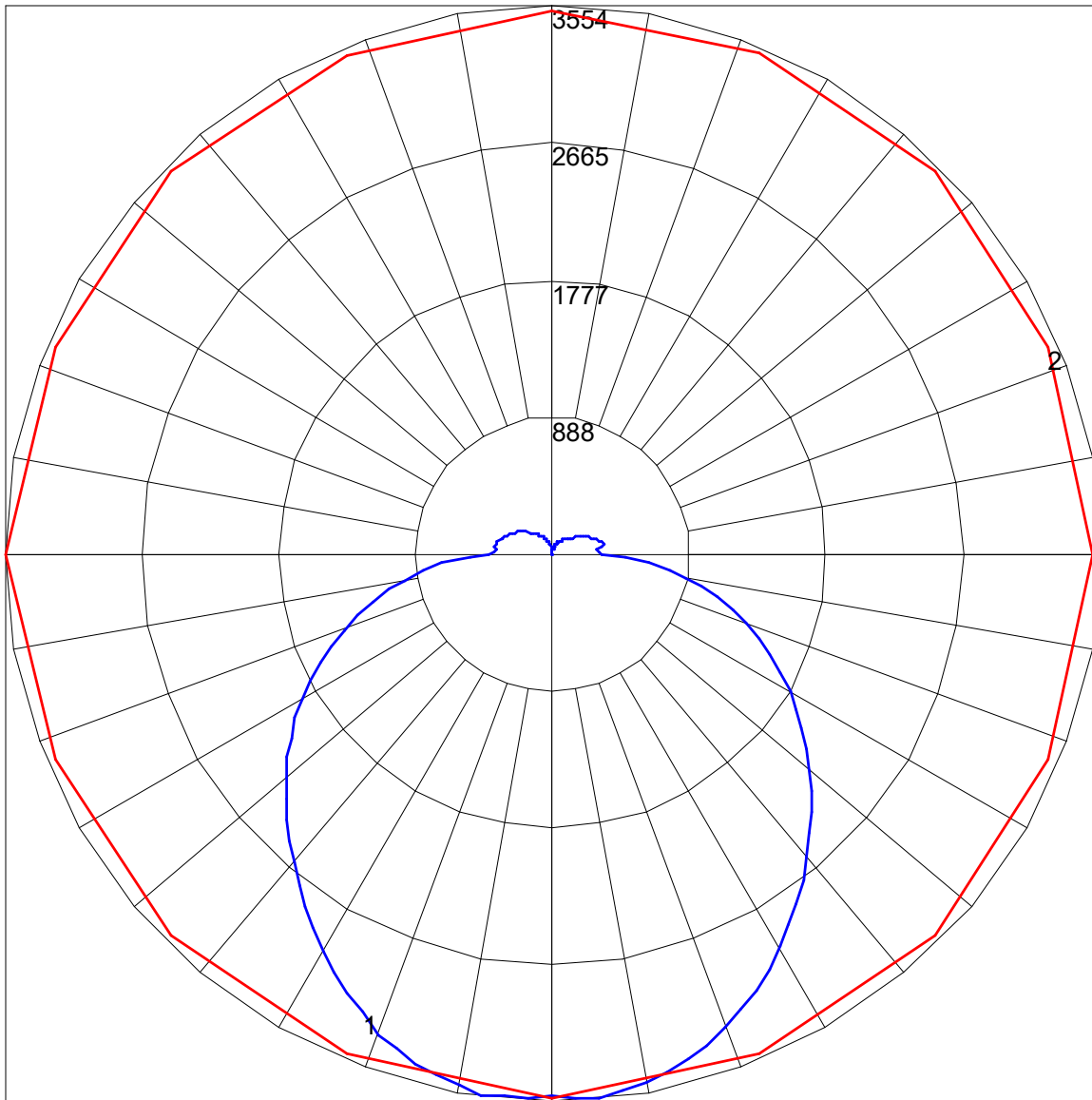
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3553.914 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.)