



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTRI-33-LED35-LO
 [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	4442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	34
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	21639	13792	11966
55	21786	12334	10262
65	22631	10819	8631
75	24706	9010	6775
85	32397	6578	4551

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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	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359
2.5	1210.851	1201.830	1204.740	1210.366	1212.888	1208.329	1204.546	1201.054	1214.440	1201.054
5.0	1214.343	1203.964	1206.680	1212.985	1213.470	1206.098	1201.830	1202.800	1213.664	1202.800
7.5	1202.606	1195.040	1200.375	1206.971	1211.142	1203.188	1201.830	1200.569	1218.126	1200.569
10.0	1193.197	1183.497	1193.585	1198.047	1201.054	1195.913	1187.377	1190.675	1204.061	1190.675
12.5	1182.624	1170.305	1183.497	1185.825	1187.571	1180.199	1174.767	1180.975	1188.832	1180.975
15.0	1166.328	1154.494	1168.171	1169.626	1170.596	1163.806	1158.471	1160.799	1173.700	1160.799
17.5	1147.995	1134.803	1147.704	1150.517	1147.510	1146.831	1140.914	1144.212	1155.076	1144.212
20.0	1124.521	1110.747	1123.648	1128.886	1123.454	1125.685	1116.761	1118.701	1138.586	1118.701
22.5	1099.980	1086.885	1098.525	1102.308	1096.973	1102.696	1092.317	1091.832	1104.636	1091.832
25.0	1075.633	1057.009	1068.746	1074.566	1068.649	1073.596	1067.097	1065.448	1077.088	1065.448
27.5	1044.884	1026.551	1039.452	1049.734	1038.870	1044.205	1038.870	1040.519	1050.801	1040.519
30.0	1009.770	997.742	1009.770	1016.172	1007.248	1014.135	1005.987	1005.987	1023.253	1005.987
32.5	979.797	965.441	980.282	985.423	974.365	981.640	972.425	975.432	989.885	975.432
35.0	949.339	932.655	947.981	953.413	941.385	947.593	939.833	944.780	959.427	944.780
37.5	916.068	900.063	915.874	922.761	908.987	913.934	908.017	913.255	928.872	913.255
40.0	880.178	866.986	883.961	891.042	878.723	879.305	875.813	884.349	897.250	884.349
42.5	845.549	834.588	853.018	860.875	844.385	846.131	843.415	851.078	867.180	851.078
45.0	815.188	802.578	820.911	830.320	809.368	811.987	809.465	820.038	837.207	820.038
47.5	782.208	769.016	791.811	798.504	776.679	778.425	777.067	790.162	805.197	790.162
50.0	748.355	736.812	759.025	767.658	745.348	743.699	744.572	757.861	775.321	757.861
52.5	712.271	703.347	727.888	735.745	710.137	709.070	710.622	724.008	743.311	724.008
55.0	677.836	670.270	695.975	703.153	675.508	673.762	674.344	692.386	712.562	692.386
57.5	643.207	636.223	663.189	670.367	642.528	638.066	639.424	659.212	679.000	659.212
60.0	609.354	601.885	629.239	637.872	606.929	602.176	603.728	623.710	645.341	623.710
62.5	572.397	566.383	595.192	602.176	571.330	565.510	566.771	587.917	608.190	587.917
65.0	534.276	529.717	558.429	565.704	535.246	525.255	528.844	552.415	571.330	552.415
67.5	495.282	493.633	522.151	529.232	496.155	487.813	490.723	514.488	535.149	514.488
70.0	457.840	454.639	483.836	491.305	457.937	447.364	451.244	474.524	494.991	474.524
72.5	420.980	417.197	446.394	452.990	419.719	409.631	412.638	436.015	453.378	436.015
75.0	380.143	378.009	407.594	413.317	381.598	370.152	373.353	396.051	414.869	396.051
77.5	339.403	340.082	368.115	373.935	341.052	331.255	333.195	355.893	372.771	355.893
80.0	300.797	299.730	328.830	334.650	303.028	291.582	293.910	316.414	332.710	316.414
82.5	261.318	259.863	288.575	294.007	262.870	251.715	255.207	276.256	289.642	276.256
85.0	216.989	217.959	246.574	250.648	222.615	209.132	211.848	234.352	245.701	234.352
87.5	162.184	164.221	190.508	193.321	171.302	153.066	154.230	175.473	183.621	175.473
90.0	110.483	112.617	135.218	141.814	121.832	112.811	111.841	129.786	139.486	129.786
92.5	101.559	103.305	123.772	130.271	113.296	106.409	106.797	121.832	129.689	121.832
95.0	100.395	100.589	120.280	128.234	117.952	111.550	113.393	125.227	125.324	125.227
97.5	108.640	105.536	123.869	133.569	124.354	120.959	121.444	126.876	129.980	126.876
100.0	115.915	110.095	121.347	125.906	114.751	115.139	113.587	118.049	129.301	118.049
102.5	114.072	107.864	114.654	115.818	104.081	105.439	104.469	109.998	125.227	109.998
105.0	108.349	102.141	111.065	107.961	96.515	96.127	95.060	106.118	119.019	106.118
107.5	100.686	97.776	107.185	102.626	88.367	89.725	91.568	102.529	115.915	102.529
110.0	97.000	95.545	103.887	97.679	84.584	83.711	88.270	98.552	111.744	98.552
112.5	92.538	91.277	97.097	94.381	81.868	80.219	84.196	93.605	108.446	93.605
115.0	90.404	84.681	90.598	90.113	78.279	77.309	78.182	88.270	104.275	88.270
117.5	83.808	74.787	85.748	86.136	75.369	74.205	73.914	85.845	98.940	85.845
120.0	80.413	67.900	81.189	81.868	73.235	70.907	67.221	81.383	94.478	81.383
122.5	71.004	64.408	76.242	78.764	70.325	66.930	63.341	75.951	90.889	75.951
125.0	63.535	60.819	72.168	74.011	66.057	64.699	59.946	73.041	85.651	73.041
127.5	58.006	56.842	68.773	70.519	62.662	59.849	56.551	69.549	80.898	69.549
130.0	53.544	54.320	64.990	66.930	59.364	55.096	53.641	64.408	75.466	64.408
132.5	50.731	52.477	62.274	63.438	54.805	52.283	51.313	60.528	70.034	60.528

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

CANDELA TABULATION - (Cont.)

135.0	47.433	49.276	60.334	59.849	49.567	49.082	48.306	57.230	66.154	57.230
137.5	45.590	48.306	58.782	59.752	48.209	46.075	46.172	53.641	61.498	53.641
140.0	41.322	46.366	56.260	56.066	43.747	42.680	43.650	51.798	58.879	51.798
142.5	39.770	43.456	54.126	53.156	42.001	38.412	40.934	49.664	54.514	49.664
145.0	36.569	42.389	49.858	50.537	37.830	35.793	37.539	46.172	51.119	46.172
147.5	33.756	41.613	48.306	47.239	35.696	32.980	35.405	42.874	46.075	42.874
150.0	30.943	40.740	44.329	45.105	33.853	29.973	32.883	40.061	43.553	40.061
152.5	29.294	37.927	42.292	40.740	32.398	27.257	31.719	37.539	38.606	37.539
155.0	25.608	35.502	38.606	37.054	28.130	24.638	29.585	34.241	33.950	34.241
157.5	26.772	33.077	34.435	33.077	27.742	24.056	29.003	30.749	30.846	30.749
160.0	27.936	28.324	30.846	30.458	24.832	23.571	25.802	27.645	27.742	27.645
162.5	25.026	24.929	26.481	25.414	22.213	22.504	22.989	24.250	22.698	24.250
165.0	21.534	22.504	22.892	21.437	18.721	18.624	19.497	20.273	20.952	20.273
167.5	17.654	17.848	19.594	19.594	16.393	15.132	15.908	16.490	17.169	16.490
170.0	15.229	15.035	15.811	14.841	14.453	12.610	12.319	13.968	13.483	13.968
172.5	11.834	12.416	12.998	13.289	11.349	10.573	10.379	9.797	9.603	9.797
175.0	9.894	9.894	9.894	9.797	9.506	9.215	8.245	8.051	7.469	8.051
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	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359	1207.359
2.5	1204.546	1208.329	1212.888	1210.366	1204.740	1201.830	1210.851
5.0	1201.830	1206.098	1213.470	1212.985	1206.680	1203.964	1214.343
7.5	1201.830	1203.188	1211.142	1206.971	1200.375	1195.040	1202.606
10.0	1187.377	1195.913	1201.054	1198.047	1193.585	1183.497	1193.197
12.5	1174.767	1180.199	1187.571	1185.825	1183.497	1170.305	1182.624
15.0	1158.471	1163.806	1170.596	1169.626	1168.171	1154.494	1166.328
17.5	1140.914	1146.831	1147.510	1150.517	1147.704	1134.803	1147.995
20.0	1116.761	1125.685	1123.454	1128.886	1123.648	1110.747	1124.521
22.5	1092.317	1102.696	1096.973	1102.308	1098.525	1086.885	1099.980
25.0	1067.097	1073.596	1068.649	1074.566	1068.746	1057.009	1075.633
27.5	1038.870	1044.205	1038.870	1049.734	1039.452	1026.551	1044.884
30.0	1005.987	1014.135	1007.248	1016.172	1009.770	997.742	1009.770
32.5	972.425	981.640	974.365	985.423	980.282	965.441	979.797
35.0	939.833	947.593	941.385	953.413	947.981	932.655	949.339
37.5	908.017	913.934	908.987	922.761	915.874	900.063	916.068
40.0	875.813	879.305	878.723	891.042	883.961	866.986	880.178
42.5	843.415	846.131	844.385	860.875	853.018	834.588	845.549
45.0	809.465	811.987	809.368	830.320	820.911	802.578	815.188
47.5	777.067	778.425	776.679	798.504	791.811	769.016	782.208
50.0	744.572	743.699	745.348	767.658	759.025	736.812	748.355
52.5	710.622	709.070	710.137	735.745	727.888	703.347	712.271
55.0	674.344	673.762	675.508	703.153	695.975	670.270	677.836
57.5	639.424	638.066	642.528	670.367	663.189	636.223	643.207
60.0	603.728	602.176	606.929	637.872	629.239	601.885	609.354
62.5	566.771	565.510	571.330	602.176	595.192	566.383	572.397
65.0	528.844	525.255	535.246	565.704	558.429	529.717	534.276
67.5	490.723	487.813	496.155	529.232	522.151	493.633	495.282
70.0	451.244	447.364	457.937	491.305	483.836	454.639	457.840
72.5	412.638	409.631	419.719	452.990	446.394	417.197	420.980
75.0	373.353	370.152	381.598	413.317	407.594	378.009	380.143
77.5	333.195	331.255	341.052	373.935	368.115	340.082	339.403
80.0	293.910	291.582	303.028	334.650	328.830	299.730	300.797

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BTRI-PRO-33-LED35-LO.IES

CANDELA TABULATION - (Cont.)

82.5	255.207	251.715	262.870	294.007	288.575	259.863	261.318
85.0	211.848	209.132	222.615	250.648	246.574	217.959	216.989
87.5	154.230	153.066	171.302	193.321	190.508	164.221	162.184
90.0	111.841	112.811	121.832	141.814	135.218	112.617	110.483
92.5	106.797	106.409	113.296	130.271	123.772	103.305	101.559
95.0	113.393	111.550	117.952	128.234	120.280	100.589	100.395
97.5	121.444	120.959	124.354	133.569	123.869	105.536	108.640
100.0	113.587	115.139	114.751	125.906	121.347	110.095	115.915
102.5	104.469	105.439	104.081	115.818	114.654	107.864	114.072
105.0	95.060	96.127	96.515	107.961	111.065	102.141	108.349
107.5	91.568	89.725	88.367	102.626	107.185	97.776	100.686
110.0	88.270	83.711	84.584	97.679	103.887	95.545	97.000
112.5	84.196	80.219	81.868	94.381	97.097	91.277	92.538
115.0	78.182	77.309	78.279	90.113	90.598	84.681	90.404
117.5	73.914	74.205	75.369	86.136	85.748	74.787	83.808
120.0	67.221	70.907	73.235	81.868	81.189	67.900	80.413
122.5	63.341	66.930	70.325	78.764	76.242	64.408	71.004
125.0	59.946	64.699	66.057	74.011	72.168	60.819	63.535
127.5	56.551	59.849	62.662	70.519	68.773	56.842	58.006
130.0	53.641	55.096	59.364	66.930	64.990	54.320	53.544
132.5	51.313	52.283	54.805	63.438	62.274	52.477	50.731
135.0	48.306	49.082	49.567	59.849	60.334	49.276	47.433
137.5	46.172	46.075	48.209	59.752	58.782	48.306	45.590
140.0	43.650	42.680	43.747	56.066	56.260	46.366	41.322
142.5	40.934	38.412	42.001	53.156	54.126	43.456	39.770
145.0	37.539	35.793	37.830	50.537	49.858	42.389	36.569
147.5	35.405	32.980	35.696	47.239	48.306	41.613	33.756
150.0	32.883	29.973	33.853	45.105	44.329	40.740	30.943
152.5	31.719	27.257	32.398	40.740	42.292	37.927	29.294
155.0	29.585	24.638	28.130	37.054	38.606	35.502	25.608
157.5	29.003	24.056	27.742	33.077	34.435	33.077	26.772
160.0	25.802	23.571	24.832	30.458	30.846	28.324	27.936
162.5	22.989	22.504	22.213	25.414	26.481	24.929	25.026
165.0	19.497	18.624	18.721	21.437	22.892	22.504	21.534
167.5	15.908	15.132	16.393	19.594	19.594	17.848	17.654
170.0	12.319	12.610	14.453	14.841	15.811	15.035	15.229
172.5	10.379	10.573	11.349	13.289	12.998	12.416	11.834
175.0	8.245	9.215	9.506	9.797	9.894	9.894	9.894
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	443.28	N.A.	10.00
0-30	936.12	N.A.	21.10
0-40	1528.36	N.A.	34.40
0-60	2772.59	N.A.	62.40
0-80	3722.03	N.A.	83.80
0-90	3963.91	N.A.	89.20
10-90	3849.08	N.A.	86.60
20-40	1085.08	N.A.	24.40
20-50	1716.08	N.A.	38.60
40-70	1782.35	N.A.	40.10
60-80	949.44	N.A.	21.40
70-80	411.32	N.A.	9.30
80-90	241.88	N.A.	5.40
90-110	240.10	N.A.	5.40
90-120	325.19	N.A.	7.30
90-130	386.54	N.A.	8.70
90-150	456.07	N.A.	10.30
90-180	478.30	N.A.	10.80
110-180	238.20	N.A.	5.40
0-180	4442.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.84
10-20	328.44
20-30	492.84
30-40	592.24
40-50	631.00
50-60	613.23
60-70	538.13
70-80	411.32
80-90	241.88
90-100	129.34
100-110	110.77
110-120	85.08
120-130	61.36
130-140	42.21
140-150	27.31
150-160	15.25
160-170	6.06
170-180	0.92

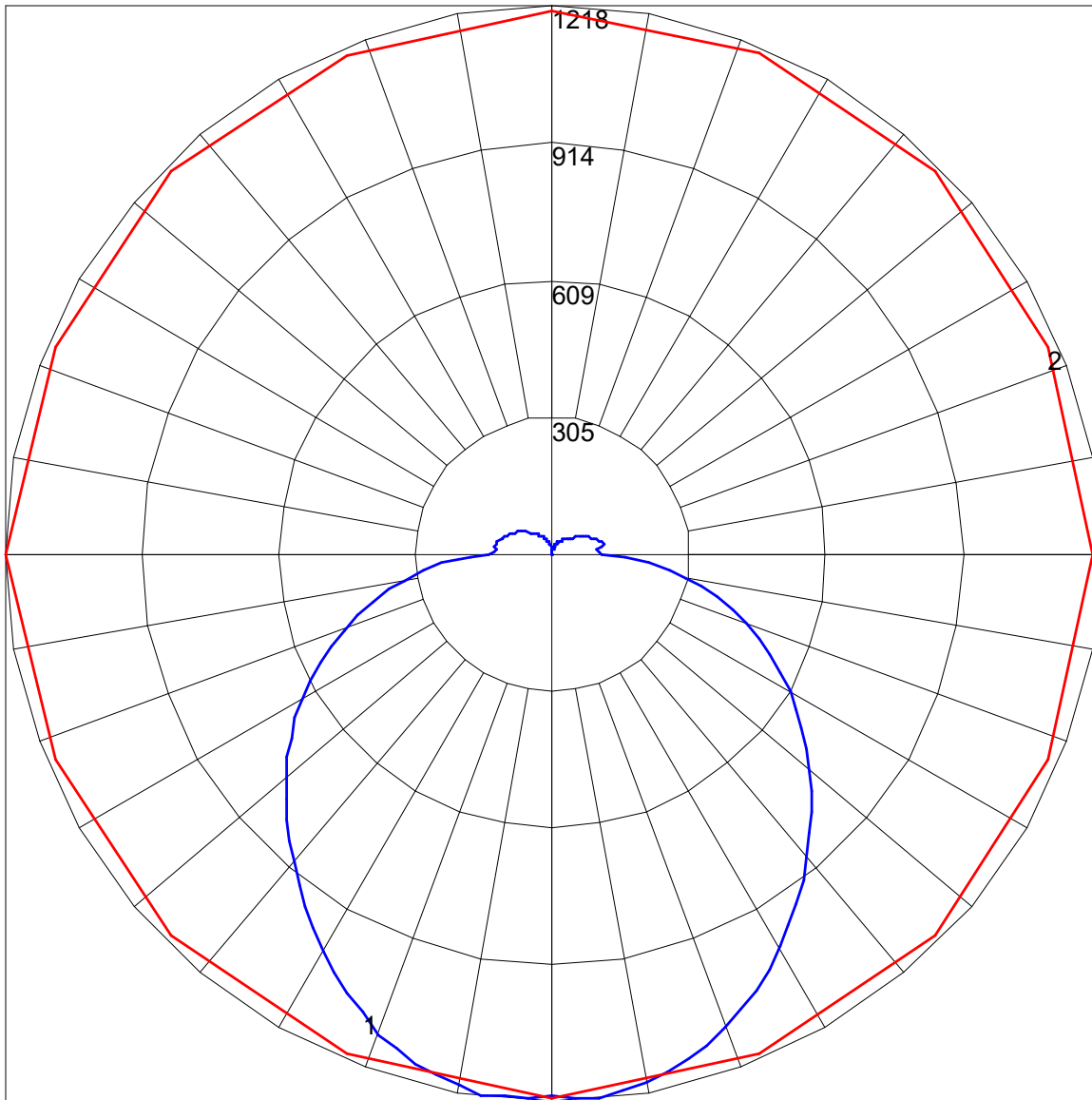
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BTRI-PRO-33-LED35-LO.IES

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 = 1218.126 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.)