



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-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
 [_TOTAL LUMINAIRE LUMENS] 4579

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8335
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	79
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	40602	25877	22452
55	40878	23143	19254
65	42462	20300	16194
75	46355	16906	12713
85	60786	12343	8539

IES INDOOR REPORT
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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	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354
2.5	2271.906	2254.980	2260.440	2270.996	2275.728	2267.174	2260.076	2253.524	2278.640	2253.524
5.0	2278.458	2258.984	2264.080	2275.910	2276.820	2262.988	2254.980	2256.800	2277.184	2256.800
7.5	2256.436	2242.240	2252.250	2264.626	2272.452	2257.528	2254.980	2252.614	2285.556	2252.614
10.0	2238.782	2220.582	2239.510	2247.882	2253.524	2243.878	2227.862	2234.050	2259.166	2234.050
12.5	2218.944	2195.830	2220.582	2224.950	2228.226	2214.394	2204.202	2215.850	2230.592	2215.850
15.0	2188.368	2166.164	2191.826	2194.556	2196.376	2183.636	2173.626	2177.994	2202.200	2177.994
17.5	2153.970	2129.218	2153.424	2158.702	2153.060	2151.786	2140.684	2146.872	2167.256	2146.872
20.0	2109.926	2084.082	2108.288	2118.116	2107.924	2112.110	2095.366	2099.006	2136.316	2099.006
22.5	2063.880	2039.310	2061.150	2068.248	2058.238	2068.976	2049.502	2048.592	2072.616	2048.592
25.0	2018.198	1983.254	2005.276	2016.196	2005.094	2014.376	2002.182	1999.088	2020.928	1999.088
27.5	1960.504	1926.106	1950.312	1969.604	1949.220	1959.230	1949.220	1952.314	1971.606	1952.314
30.0	1894.620	1872.052	1894.620	1906.632	1889.888	1902.810	1887.522	1887.522	1919.918	1887.522
32.5	1838.382	1811.446	1839.292	1848.938	1828.190	1841.840	1824.550	1830.192	1857.310	1830.192
35.0	1781.234	1749.930	1778.686	1788.878	1766.310	1777.958	1763.398	1772.680	1800.162	1772.680
37.5	1718.808	1688.778	1718.444	1731.366	1705.522	1714.804	1703.702	1713.530	1742.832	1713.530
40.0	1651.468	1626.716	1658.566	1671.852	1648.738	1649.830	1643.278	1659.294	1683.500	1659.294
42.5	1586.494	1565.928	1600.508	1615.250	1584.310	1587.586	1582.490	1596.868	1627.080	1596.868
45.0	1529.528	1505.868	1540.266	1557.920	1518.608	1523.522	1518.790	1538.628	1570.842	1538.628
47.5	1467.648	1442.896	1485.666	1498.224	1457.274	1460.550	1458.002	1482.572	1510.782	1482.572
50.0	1404.130	1382.472	1424.150	1440.348	1398.488	1395.394	1397.032	1421.966	1454.726	1421.966
52.5	1336.426	1319.682	1365.728	1380.470	1332.422	1330.420	1333.332	1358.448	1394.666	1358.448
55.0	1271.816	1257.620	1305.850	1319.318	1267.448	1264.172	1265.264	1299.116	1336.972	1299.116
57.5	1206.842	1193.738	1244.334	1257.802	1205.568	1197.196	1199.744	1236.872	1274.000	1236.872
60.0	1143.324	1129.310	1180.634	1196.832	1138.774	1129.856	1132.768	1170.260	1210.846	1170.260
62.5	1073.982	1062.698	1116.752	1129.856	1071.980	1061.060	1063.426	1103.102	1141.140	1103.102
65.0	1002.456	993.902	1047.774	1061.424	1004.276	985.530	992.264	1036.490	1071.980	1036.490
67.5	929.292	926.198	979.706	992.992	930.930	915.278	920.738	965.328	1004.094	965.328
70.0	859.040	853.034	907.816	921.830	859.222	839.384	846.664	890.344	928.746	890.344
72.5	789.880	782.782	837.564	849.940	787.514	768.586	774.228	818.090	850.668	818.090
75.0	713.258	709.254	764.764	775.502	715.988	694.512	700.518	743.106	778.414	743.106
77.5	636.818	638.092	690.690	701.610	639.912	621.530	625.170	667.758	699.426	667.758
80.0	564.382	562.380	616.980	627.900	568.568	547.092	551.460	593.684	624.260	593.684
82.5	490.308	487.578	541.450	551.642	493.220	472.290	478.842	518.336	543.452	518.336
85.0	407.134	408.954	462.644	470.288	417.690	392.392	397.488	439.712	461.006	439.712
87.5	304.304	308.126	357.448	362.726	321.412	287.196	289.380	329.238	344.526	329.238
90.0	207.298	211.302	253.708	266.084	228.592	211.666	209.846	243.516	261.716	243.516
92.5	190.554	193.830	232.232	244.426	212.576	199.654	200.382	228.592	243.334	228.592
95.0	188.370	188.734	225.680	240.604	221.312	209.300	212.758	234.962	235.144	234.962
97.5	203.840	198.016	232.414	250.614	233.324	226.954	227.864	238.056	243.880	238.056
100.0	217.490	206.570	227.682	236.236	215.306	216.034	213.122	221.494	242.606	221.494
102.5	214.032	202.384	215.124	217.308	195.286	197.834	196.014	206.388	234.962	206.388
105.0	203.294	191.646	208.390	202.566	181.090	180.362	178.360	199.108	223.314	199.108
107.5	188.916	183.456	201.110	192.556	165.802	168.350	171.808	192.374	217.490	192.374
110.0	182.000	179.270	194.922	183.274	158.704	157.066	165.620	184.912	209.664	184.912
112.5	173.628	171.262	182.182	177.086	153.608	150.514	157.976	175.630	203.476	175.630
115.0	169.624	158.886	169.988	169.078	146.874	145.054	146.692	165.620	195.650	165.620
117.5	157.248	140.322	160.888	161.616	141.414	139.230	138.684	161.070	185.640	161.070
120.0	150.878	127.400	152.334	153.608	137.410	133.042	126.126	152.698	177.268	152.698
122.5	133.224	120.848	143.052	147.784	131.950	125.580	118.846	142.506	170.534	142.506
125.0	119.210	114.114	135.408	138.866	123.942	121.394	112.476	137.046	160.706	137.046
127.5	108.836	106.652	129.038	132.314	117.572	112.294	106.106	130.494	151.788	130.494
130.0	100.464	101.920	121.940	125.580	111.384	103.376	100.646	120.848	141.596	120.848
132.5	95.186	98.462	116.844	119.028	102.830	98.098	96.278	113.568	131.404	113.568

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BTRI-33-LED35-HO.IES

CANDELA TABULATION - (Cont.)

135.0	88.998	92.456	113.204	112.294	93.002	92.092	90.636	107.380	124.124	107.380
137.5	85.540	90.636	110.292	112.112	90.454	86.450	86.632	100.646	115.388	100.646
140.0	77.532	86.996	105.560	105.196	82.082	80.080	81.900	97.188	110.474	97.188
142.5	74.620	81.536	101.556	99.736	78.806	72.072	76.804	93.184	102.284	93.184
145.0	68.614	79.534	93.548	94.822	70.980	67.158	70.434	86.632	95.914	86.632
147.5	63.336	78.078	90.636	88.634	66.976	61.880	66.430	80.444	86.450	80.444
150.0	58.058	76.440	83.174	84.630	63.518	56.238	61.698	75.166	81.718	75.166
152.5	54.964	71.162	79.352	76.440	60.788	51.142	59.514	70.434	72.436	70.434
155.0	48.048	66.612	72.436	69.524	52.780	46.228	55.510	64.246	63.700	64.246
157.5	50.232	62.062	64.610	62.062	52.052	45.136	54.418	57.694	57.876	57.694
160.0	52.416	53.144	57.876	57.148	46.592	44.226	48.412	51.870	52.052	51.870
162.5	46.956	46.774	49.686	47.684	41.678	42.224	43.134	45.500	42.588	45.500
165.0	40.404	42.224	42.952	40.222	35.126	34.944	36.582	38.038	39.312	38.038
167.5	33.124	33.488	36.764	36.764	30.758	28.392	29.848	30.940	32.214	30.940
170.0	28.574	28.210	29.666	27.846	27.118	23.660	23.114	26.208	25.298	26.208
172.5	22.204	23.296	24.388	24.934	21.294	19.838	19.474	18.382	18.018	18.382
175.0	18.564	18.564	18.564	18.382	17.836	17.290	15.470	15.106	14.014	15.106
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	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354	2265.354
2.5	2260.076	2267.174	2275.728	2270.996	2260.440	2254.980	2271.906
5.0	2254.980	2262.988	2276.820	2275.910	2264.080	2258.984	2278.458
7.5	2254.980	2257.528	2272.452	2264.626	2252.250	2242.240	2256.436
10.0	2227.862	2243.878	2253.524	2247.882	2239.510	2220.582	2238.782
12.5	2204.202	2214.394	2228.226	2224.950	2220.582	2195.830	2218.944
15.0	2173.626	2183.636	2196.376	2194.556	2191.826	2166.164	2188.368
17.5	2140.684	2151.786	2153.060	2158.702	2153.424	2129.218	2153.970
20.0	2095.366	2112.110	2107.924	2118.116	2108.288	2084.082	2109.926
22.5	2049.502	2068.976	2058.238	2068.248	2061.150	2039.310	2063.880
25.0	2002.182	2014.376	2005.094	2016.196	2005.276	1983.254	2018.198
27.5	1949.220	1959.230	1949.220	1969.604	1950.312	1926.106	1960.504
30.0	1887.522	1902.810	1889.888	1906.632	1894.620	1872.052	1894.620
32.5	1824.550	1841.840	1828.190	1848.938	1839.292	1811.446	1838.382
35.0	1763.398	1777.958	1766.310	1788.878	1778.686	1749.930	1781.234
37.5	1703.702	1714.804	1705.522	1731.366	1718.444	1688.778	1718.808
40.0	1643.278	1649.830	1648.738	1671.852	1658.566	1626.716	1651.468
42.5	1582.490	1587.586	1584.310	1615.250	1600.508	1565.928	1586.494
45.0	1518.790	1523.522	1518.608	1557.920	1540.266	1505.868	1529.528
47.5	1458.002	1460.550	1457.274	1498.224	1485.666	1442.896	1467.648
50.0	1397.032	1395.394	1398.488	1440.348	1424.150	1382.472	1404.130
52.5	1333.332	1330.420	1332.422	1380.470	1365.728	1319.682	1336.426
55.0	1265.264	1264.172	1267.448	1319.318	1305.850	1257.620	1271.816
57.5	1199.744	1197.196	1205.568	1257.802	1244.334	1193.738	1206.842
60.0	1132.768	1129.856	1138.774	1196.832	1180.634	1129.310	1143.324
62.5	1063.426	1061.060	1071.980	1129.856	1116.752	1062.698	1073.982
65.0	992.264	985.530	1004.276	1061.424	1047.774	993.902	1002.456
67.5	920.738	915.278	930.930	992.992	979.706	926.198	929.292
70.0	846.664	839.384	859.222	921.830	907.816	853.034	859.040
72.5	774.228	768.586	787.514	849.940	837.564	782.782	789.880
75.0	700.518	694.512	715.988	775.502	764.764	709.254	713.258
77.5	625.170	621.530	639.912	701.610	690.690	638.092	636.818
80.0	551.460	547.092	568.568	627.900	616.980	562.380	564.382

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BTRI-33-LED35-HO.IES

CANDELA TABULATION - (Cont.)

82.5	478.842	472.290	493.220	551.642	541.450	487.578	490.308
85.0	397.488	392.392	417.690	470.288	462.644	408.954	407.134
87.5	289.380	287.196	321.412	362.726	357.448	308.126	304.304
90.0	209.846	211.666	228.592	266.084	253.708	211.302	207.298
92.5	200.382	199.654	212.576	244.426	232.232	193.830	190.554
95.0	212.758	209.300	221.312	240.604	225.680	188.734	188.370
97.5	227.864	226.954	233.324	250.614	232.414	198.016	203.840
100.0	213.122	216.034	215.306	236.236	227.682	206.570	217.490
102.5	196.014	197.834	195.286	217.308	215.124	202.384	214.032
105.0	178.360	180.362	181.090	202.566	208.390	191.646	203.294
107.5	171.808	168.350	165.802	192.556	201.110	183.456	188.916
110.0	165.620	157.066	158.704	183.274	194.922	179.270	182.000
112.5	157.976	150.514	153.608	177.086	182.182	171.262	173.628
115.0	146.692	145.054	146.874	169.078	169.988	158.886	169.624
117.5	138.684	139.230	141.414	161.616	160.888	140.322	157.248
120.0	126.126	133.042	137.410	153.608	152.334	127.400	150.878
122.5	118.846	125.580	131.950	147.784	143.052	120.848	133.224
125.0	112.476	121.394	123.942	138.866	135.408	114.114	119.210
127.5	106.106	112.294	117.572	132.314	129.038	106.652	108.836
130.0	100.646	103.376	111.384	125.580	121.940	101.920	100.464
132.5	96.278	98.098	102.830	119.028	116.844	98.462	95.186
135.0	90.636	92.092	93.002	112.294	113.204	92.456	88.998
137.5	86.632	86.450	90.454	112.112	110.292	90.636	85.540
140.0	81.900	80.080	82.082	105.196	105.560	86.996	77.532
142.5	76.804	72.072	78.806	99.736	101.556	81.536	74.620
145.0	70.434	67.158	70.980	94.822	93.548	79.534	68.614
147.5	66.430	61.880	66.976	88.634	90.636	78.078	63.336
150.0	61.698	56.238	63.518	84.630	83.174	76.440	58.058
152.5	59.514	51.142	60.788	76.440	79.352	71.162	54.964
155.0	55.510	46.228	52.780	69.524	72.436	66.612	48.048
157.5	54.418	45.136	52.052	62.062	64.610	62.062	50.232
160.0	48.412	44.226	46.592	57.148	57.876	53.144	52.416
162.5	43.134	42.224	41.678	47.684	49.686	46.774	46.956
165.0	36.582	34.944	35.126	40.222	42.952	42.224	40.404
167.5	29.848	28.392	30.758	36.764	36.764	33.488	33.124
170.0	23.114	23.660	27.118	27.846	29.666	28.210	28.574
172.5	19.474	19.838	21.294	24.934	24.388	23.296	22.204
175.0	15.470	17.290	17.836	18.382	18.564	18.564	18.564
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	831.72	N.A.	10.00
0-30	1756.43	N.A.	21.10
0-40	2867.65	N.A.	34.40
0-60	5202.18	N.A.	62.40
0-80	6983.61	N.A.	83.80
0-90	7437.45	N.A.	89.20
10-90	7221.98	N.A.	86.60
20-40	2035.93	N.A.	24.40
20-50	3219.86	N.A.	38.60
40-70	3344.21	N.A.	40.10
60-80	1781.43	N.A.	21.40
70-80	771.75	N.A.	9.30
80-90	453.84	N.A.	5.40
90-110	450.50	N.A.	5.40
90-120	610.15	N.A.	7.30
90-130	725.27	N.A.	8.70
90-150	855.72	N.A.	10.30
90-180	897.43	N.A.	10.80
110-180	446.93	N.A.	5.40
0-180	8334.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.47
10-20	616.25
20-30	924.71
30-40	1111.22
40-50	1183.93
50-60	1150.6
60-70	1009.68
70-80	771.75
80-90	453.84
90-100	242.68
100-110	207.83
110-120	159.64
120-130	115.12
130-140	79.21
140-150	51.24
150-160	28.61
160-170	11.37
170-180	1.73

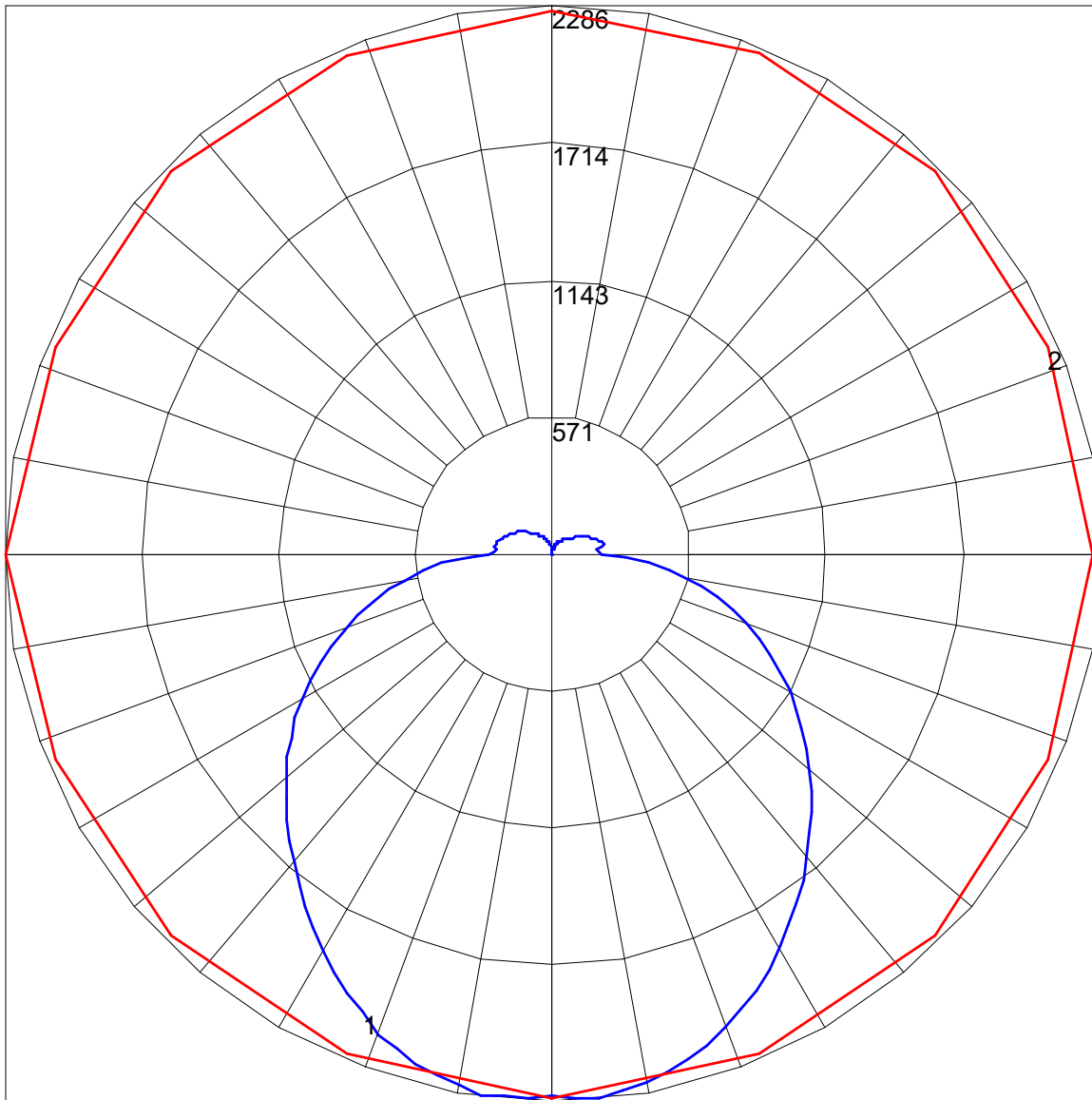
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BTRI-33-LED35-HO.IES

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 = 2285.556 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.)