



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-PRO-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
 [_TOTALLUMINAIRELUMENS] 3031.7

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9096
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	79
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	62836	40789	35212
55	62570	36251	30066
65	63346	31621	25236
75	66510	26037	19724
85	76247	18025	12747

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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	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3
2.5	2514.6	2538.0	2534.1	2520.0	2511.9	2518.8	2530.5	2543.4	2523.0	2543.4
5.0	2513.1	2535.6	2532.0	2521.5	2514.6	2520.9	2526.0	2547.3	2536.8	2547.3
7.5	2515.2	2527.8	2524.5	2520.9	2510.1	2499.6	2511.9	2538.0	2511.3	2538.0
10.0	2481.3	2508.6	2499.3	2496.0	2485.8	2481.0	2496.6	2511.3	2496.6	2511.3
12.5	2453.7	2469.6	2473.5	2465.7	2458.5	2454.6	2473.2	2483.1	2464.5	2483.1
15.0	2420.1	2438.7	2438.1	2430.3	2415.0	2420.1	2440.8	2446.5	2433.6	2446.5
17.5	2381.1	2390.7	2397.0	2391.3	2372.1	2382.0	2401.5	2405.4	2391.0	2405.4
20.0	2337.0	2340.0	2349.3	2350.2	2321.4	2334.6	2345.7	2355.9	2351.7	2355.9
22.5	2277.6	2281.8	2298.9	2295.3	2267.4	2281.2	2286.6	2300.4	2289.6	2300.4
25.0	2219.7	2223.0	2235.9	2232.9	2204.4	2224.5	2222.4	2237.7	2229.0	2237.7
27.5	2160.3	2161.8	2171.1	2172.9	2140.5	2157.6	2159.7	2174.1	2166.6	2174.1
30.0	2088.0	2089.2	2102.4	2109.3	2078.7	2096.7	2097.0	2107.2	2106.3	2107.2
32.5	2028.0	2021.1	2037.6	2040.9	2002.8	2028.9	2027.1	2037.3	2038.5	2037.3
35.0	1961.4	1950.3	1970.4	1974.3	1933.2	1959.0	1955.7	1970.4	1974.3	1970.4
37.5	1891.8	1883.1	1902.0	1905.0	1863.3	1893.0	1881.9	1899.0	1906.8	1899.0
40.0	1817.4	1812.0	1835.7	1839.3	1793.4	1820.7	1816.5	1835.7	1840.8	1835.7
42.5	1750.5	1742.4	1772.4	1778.4	1725.6	1747.2	1745.1	1764.6	1777.5	1764.6
45.0	1678.5	1668.6	1704.3	1712.4	1658.1	1676.4	1674.6	1697.4	1714.5	1697.4
47.5	1614.0	1598.7	1640.4	1650.0	1587.0	1601.7	1598.4	1625.7	1647.6	1625.7
50.0	1539.0	1528.5	1572.0	1581.0	1522.2	1525.8	1527.9	1559.1	1583.1	1559.1
52.5	1464.6	1458.6	1503.3	1518.9	1450.5	1452.3	1459.5	1492.5	1517.1	1492.5
55.0	1390.5	1380.9	1438.5	1449.3	1377.9	1379.1	1381.8	1418.7	1449.9	1418.7
57.5	1316.1	1309.2	1368.3	1382.1	1311.3	1306.8	1305.9	1349.7	1383.0	1349.7
60.0	1242.6	1237.2	1297.2	1312.8	1237.8	1230.9	1233.6	1277.4	1313.4	1277.4
62.5	1159.2	1161.9	1228.8	1239.0	1165.2	1147.2	1156.2	1205.4	1241.4	1205.4
65.0	1080.6	1083.9	1150.2	1163.7	1089.6	1071.0	1078.8	1125.6	1161.6	1125.6
67.5	997.8	1002.9	1072.5	1085.7	1010.7	991.8	1000.2	1047.0	1090.2	1047.0
70.0	921.0	923.7	996.9	1005.3	930.6	908.7	918.3	968.7	1007.7	968.7
72.5	839.4	843.3	912.3	924.3	852.6	827.4	836.4	885.9	924.9	885.9
75.0	756.6	760.5	832.2	843.9	773.4	746.7	758.7	806.4	843.6	806.4
77.5	668.7	675.9	749.7	762.0	690.6	660.9	670.5	721.5	755.1	721.5
80.0	585.9	595.5	666.3	674.1	608.4	579.9	586.5	634.5	672.6	634.5
82.5	502.8	513.0	576.6	589.2	525.0	494.4	497.1	554.7	581.4	554.7
85.0	407.7	419.1	479.1	489.9	434.1	395.4	399.6	456.0	479.4	456.0
87.5	310.2	318.3	375.6	387.9	330.6	298.8	308.1	352.5	372.0	352.5
90.0	246.3	246.6	299.4	303.3	260.7	238.5	239.4	277.5	304.2	277.5
92.5	224.1	231.6	274.2	281.4	241.5	227.4	227.7	260.4	281.7	260.4
95.0	217.5	219.9	257.1	263.7	227.1	219.3	216.3	248.1	267.0	248.1
97.5	211.2	209.4	246.0	256.5	227.7	211.2	218.4	244.2	250.8	244.2
100.0	211.8	202.8	243.9	252.9	227.1	217.8	220.2	242.4	249.3	242.4
102.5	205.5	201.9	237.0	248.4	217.2	220.5	216.3	232.8	246.6	232.8
105.0	208.2	199.8	217.8	229.2	207.6	207.3	207.6	209.7	237.6	209.7
107.5	207.0	186.9	207.9	211.8	193.2	194.7	193.5	195.0	219.9	195.0
110.0	186.6	171.6	197.1	198.0	174.9	180.9	171.9	183.0	212.1	183.0
112.5	177.6	161.1	184.2	187.8	164.7	166.5	162.3	177.0	196.2	177.0
115.0	160.8	154.5	177.6	174.3	152.7	156.6	149.7	168.6	184.2	168.6
117.5	158.1	149.1	163.5	164.7	139.8	147.0	141.6	161.1	180.0	161.1
120.0	147.9	144.9	158.1	158.4	132.6	140.4	138.3	150.3	168.6	150.3
122.5	144.9	135.9	150.3	150.0	125.1	134.4	132.6	142.8	159.9	142.8
125.0	133.8	127.8	145.2	143.1	122.4	124.8	125.7	140.7	154.2	140.7
127.5	128.7	120.9	136.5	133.2	114.9	117.3	114.3	132.6	147.9	132.6
130.0	125.1	109.5	130.2	126.6	108.3	116.4	105.6	125.4	140.1	125.4
132.5	108.6	102.0	121.5	118.2	105.0	109.5	102.9	119.7	131.4	119.7

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CANDELA TABULATION - (Cont.)

135.0	99.6	95.1	114.0	113.1	100.8	99.3	96.0	115.2	127.2	115.2
137.5	82.2	91.5	107.1	105.3	93.3	91.2	90.9	109.8	123.0	109.8
140.0	74.4	86.1	102.0	97.8	90.0	87.9	86.4	100.5	113.4	100.5
142.5	71.1	78.9	95.4	94.5	80.1	78.3	79.8	95.7	107.1	95.7
145.0	62.7	71.1	88.5	87.0	76.8	72.9	76.2	90.0	101.7	90.0
147.5	55.5	69.6	81.3	84.0	72.0	63.6	68.4	85.2	87.3	85.2
150.0	51.6	63.6	75.6	75.3	67.2	59.4	66.0	77.1	84.9	77.1
152.5	49.8	57.3	72.3	68.7	60.9	52.5	60.0	71.1	73.2	71.1
155.0	39.9	52.5	63.3	63.9	50.1	49.5	52.5	63.9	69.3	63.9
157.5	39.6	47.7	60.9	59.7	48.9	42.9	52.8	57.9	58.5	57.9
160.0	33.9	45.6	54.9	55.5	44.4	38.7	42.6	52.5	54.6	52.5
162.5	31.2	41.1	47.4	48.9	39.0	33.0	36.6	47.1	51.6	47.1
165.0	25.8	35.7	42.3	40.8	34.8	29.4	36.0	39.6	43.2	39.6
167.5	27.3	33.9	34.5	36.9	27.3	25.8	31.5	33.9	34.2	33.9
170.0	26.1	26.4	27.0	30.0	24.3	21.6	25.8	26.1	30.6	26.1
172.5	24.3	21.9	22.5	23.1	20.4	19.8	21.0	23.4	26.1	23.4
175.0	16.5	18.6	17.4	18.3	18.3	16.5	18.3	18.9	18.0	18.9
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3	2526.3
2.5	2530.5	2518.8	2511.9	2520.0	2534.1	2538.0	2514.6
5.0	2526.0	2520.9	2514.6	2521.5	2532.0	2535.6	2513.1
7.5	2511.9	2499.6	2510.1	2520.9	2524.5	2527.8	2515.2
10.0	2496.6	2481.0	2485.8	2496.0	2499.3	2508.6	2481.3
12.5	2473.2	2454.6	2458.5	2465.7	2473.5	2469.6	2453.7
15.0	2440.8	2420.1	2415.0	2430.3	2438.1	2438.7	2420.1
17.5	2401.5	2382.0	2372.1	2391.3	2397.0	2390.7	2381.1
20.0	2345.7	2334.6	2321.4	2350.2	2349.3	2340.0	2337.0
22.5	2286.6	2281.2	2267.4	2295.3	2298.9	2281.8	2277.6
25.0	2222.4	2224.5	2204.4	2232.9	2235.9	2223.0	2219.7
27.5	2159.7	2157.6	2140.5	2172.9	2171.1	2161.8	2160.3
30.0	2097.0	2096.7	2078.7	2109.3	2102.4	2089.2	2088.0
32.5	2027.1	2028.9	2002.8	2040.9	2037.6	2021.1	2028.0
35.0	1955.7	1959.0	1933.2	1974.3	1970.4	1950.3	1961.4
37.5	1881.9	1893.0	1863.3	1905.0	1902.0	1883.1	1891.8
40.0	1816.5	1820.7	1793.4	1839.3	1835.7	1812.0	1817.4
42.5	1745.1	1747.2	1725.6	1778.4	1772.4	1742.4	1750.5
45.0	1674.6	1676.4	1658.1	1712.4	1704.3	1668.6	1678.5
47.5	1598.4	1601.7	1587.0	1650.0	1640.4	1598.7	1614.0
50.0	1527.9	1525.8	1522.2	1581.0	1572.0	1528.5	1539.0
52.5	1459.5	1452.3	1450.5	1518.9	1503.3	1458.6	1464.6
55.0	1381.8	1379.1	1377.9	1449.3	1438.5	1380.9	1390.5
57.5	1305.9	1306.8	1311.3	1382.1	1368.3	1309.2	1316.1
60.0	1233.6	1230.9	1237.8	1312.8	1297.2	1237.2	1242.6
62.5	1156.2	1147.2	1165.2	1239.0	1228.8	1161.9	1159.2
65.0	1078.8	1071.0	1089.6	1163.7	1150.2	1083.9	1080.6
67.5	1000.2	991.8	1010.7	1085.7	1072.5	1002.9	997.8
70.0	918.3	908.7	930.6	1005.3	996.9	923.7	921.0
72.5	836.4	827.4	852.6	924.3	912.3	843.3	839.4
75.0	758.7	746.7	773.4	843.9	832.2	760.5	756.6
77.5	670.5	660.9	690.6	762.0	749.7	675.9	668.7
80.0	586.5	579.9	608.4	674.1	666.3	595.5	585.9

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CANDELA TABULATION - (Cont.)

82.5	497.1	494.4	525.0	589.2	576.6	513.0	502.8
85.0	399.6	395.4	434.1	489.9	479.1	419.1	407.7
87.5	308.1	298.8	330.6	387.9	375.6	318.3	310.2
90.0	239.4	238.5	260.7	303.3	299.4	246.6	246.3
92.5	227.7	227.4	241.5	281.4	274.2	231.6	224.1
95.0	216.3	219.3	227.1	263.7	257.1	219.9	217.5
97.5	218.4	211.2	227.7	256.5	246.0	209.4	211.2
100.0	220.2	217.8	227.1	252.9	243.9	202.8	211.8
102.5	216.3	220.5	217.2	248.4	237.0	201.9	205.5
105.0	207.6	207.3	207.6	229.2	217.8	199.8	208.2
107.5	193.5	194.7	193.2	211.8	207.9	186.9	207.0
110.0	171.9	180.9	174.9	198.0	197.1	171.6	186.6
112.5	162.3	166.5	164.7	187.8	184.2	161.1	177.6
115.0	149.7	156.6	152.7	174.3	177.6	154.5	160.8
117.5	141.6	147.0	139.8	164.7	163.5	149.1	158.1
120.0	138.3	140.4	132.6	158.4	158.1	144.9	147.9
122.5	132.6	134.4	125.1	150.0	150.3	135.9	144.9
125.0	125.7	124.8	122.4	143.1	145.2	127.8	133.8
127.5	114.3	117.3	114.9	133.2	136.5	120.9	128.7
130.0	105.6	116.4	108.3	126.6	130.2	109.5	125.1
132.5	102.9	109.5	105.0	118.2	121.5	102.0	108.6
135.0	96.0	99.3	100.8	113.1	114.0	95.1	99.6
137.5	90.9	91.2	93.3	105.3	107.1	91.5	82.2
140.0	86.4	87.9	90.0	97.8	102.0	86.1	74.4
142.5	79.8	78.3	80.1	94.5	95.4	78.9	71.1
145.0	76.2	72.9	76.8	87.0	88.5	71.1	62.7
147.5	68.4	63.6	72.0	84.0	81.3	69.6	55.5
150.0	66.0	59.4	67.2	75.3	75.6	63.6	51.6
152.5	60.0	52.5	60.9	68.7	72.3	57.3	49.8
155.0	52.5	49.5	50.1	63.9	63.3	52.5	39.9
157.5	52.8	42.9	48.9	59.7	60.9	47.7	39.6
160.0	42.6	38.7	44.4	55.5	54.9	45.6	33.9
162.5	36.6	33.0	39.0	48.9	47.4	41.1	31.2
165.0	36.0	29.4	34.8	40.8	42.3	35.7	25.8
167.5	31.5	25.8	27.3	36.9	34.5	33.9	27.3
170.0	25.8	21.6	24.3	30.0	27.0	26.4	26.1
172.5	21.0	19.8	20.4	23.1	22.5	21.9	24.3
175.0	18.3	16.5	18.3	18.3	17.4	18.6	16.5
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	926.13	N.A.	10.20
0-30	1952.1	N.A.	21.50
0-40	3179.94	N.A.	35.00
0-60	5741.57	N.A.	63.10
0-80	7673.54	N.A.	84.40
0-90	8153.1	N.A.	89.60
10-90	7912.83	N.A.	87.00
20-40	2253.81	N.A.	24.80
20-50	3556.34	N.A.	39.10
40-70	3660.95	N.A.	40.20
60-80	1931.97	N.A.	21.20
70-80	832.65	N.A.	9.20
80-90	479.56	N.A.	5.30
90-110	486.94	N.A.	5.40
90-120	650.40	N.A.	7.20
90-130	770.45	N.A.	8.50
90-150	903.65	N.A.	9.90
90-180	943.04	N.A.	10.40
110-180	456.09	N.A.	5.00
0-180	9096.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.27
10-20	685.86
20-30	1025.97
30-40	1227.84
40-50	1302.52
50-60	1259.11
60-70	1099.32
70-80	832.65
80-90	479.56
90-100	263.42
100-110	223.53
110-120	163.46
120-130	120.05
130-140	82.25
140-150	50.95
150-160	26.90
160-170	10.72
170-180	1.77

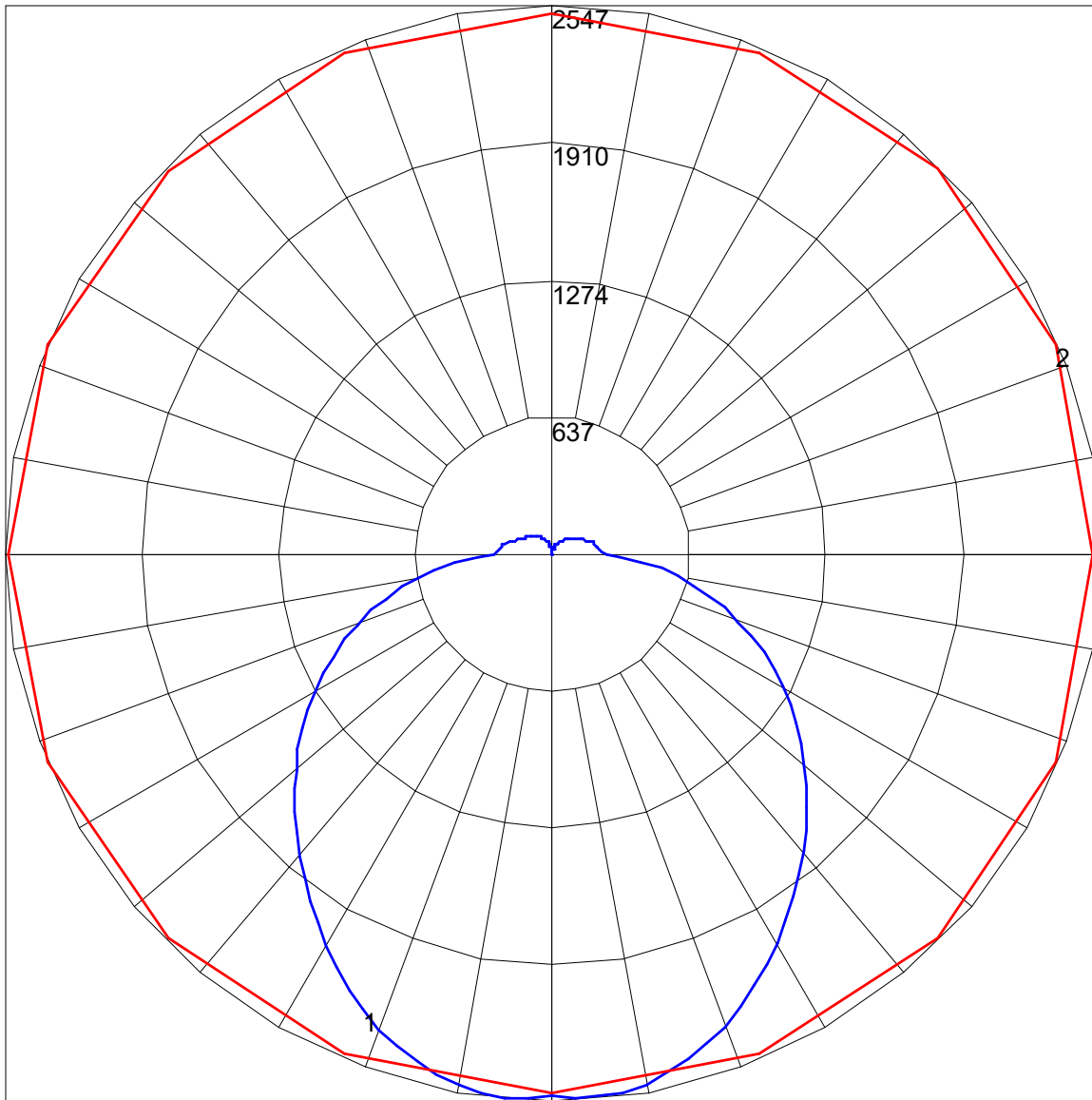
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2547.3 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.)