



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTRI-33-LED35-SO
 [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	6869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	63
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	33463	21327	18505
55	33690	19074	15869
65	34996	16730	13346
75	38204	13934	10477
85	50098	10173	7038

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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	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05
2.5	1872.45	1858.50	1863.00	1871.70	1875.60	1868.55	1862.70	1857.30	1878.00	1857.30
5.0	1877.85	1861.80	1866.00	1875.75	1876.50	1865.10	1858.50	1860.00	1876.80	1860.00
7.5	1859.70	1848.00	1856.25	1866.45	1872.90	1860.60	1858.50	1856.55	1883.70	1856.55
10.0	1845.15	1830.15	1845.75	1852.65	1857.30	1849.35	1836.15	1841.25	1861.95	1841.25
12.5	1828.80	1809.75	1830.15	1833.75	1836.45	1825.05	1816.65	1826.25	1838.40	1826.25
15.0	1803.60	1785.30	1806.45	1808.70	1810.20	1799.70	1791.45	1795.05	1815.00	1795.05
17.5	1775.25	1754.85	1774.80	1779.15	1774.50	1773.45	1764.30	1769.40	1786.20	1769.40
20.0	1738.95	1717.65	1737.60	1745.70	1737.30	1740.75	1726.95	1729.95	1760.70	1729.95
22.5	1701.00	1680.75	1698.75	1704.60	1696.35	1705.20	1689.15	1688.40	1708.20	1688.40
25.0	1663.35	1634.55	1652.70	1661.70	1652.55	1660.20	1650.15	1647.60	1665.60	1647.60
27.5	1615.80	1587.45	1607.40	1623.30	1606.50	1614.75	1606.50	1609.05	1624.95	1609.05
30.0	1561.50	1542.90	1561.50	1571.40	1557.60	1568.25	1555.65	1555.65	1582.35	1555.65
32.5	1515.15	1492.95	1515.90	1523.85	1506.75	1518.00	1503.75	1508.40	1530.75	1508.40
35.0	1468.05	1442.25	1465.95	1474.35	1455.75	1465.35	1453.35	1461.00	1483.65	1461.00
37.5	1416.60	1391.85	1416.30	1426.95	1405.65	1413.30	1404.15	1412.25	1436.40	1412.25
40.0	1361.10	1340.70	1366.95	1377.90	1358.85	1359.75	1354.35	1367.55	1387.50	1367.55
42.5	1307.55	1290.60	1319.10	1331.25	1305.75	1308.45	1304.25	1316.10	1341.00	1316.10
45.0	1260.60	1241.10	1269.45	1284.00	1251.60	1255.65	1251.75	1268.10	1294.65	1268.10
47.5	1209.60	1189.20	1224.45	1234.80	1201.05	1203.75	1201.65	1221.90	1245.15	1221.90
50.0	1157.25	1139.40	1173.75	1187.10	1152.60	1150.05	1151.40	1171.95	1198.95	1171.95
52.5	1101.45	1087.65	1125.60	1137.75	1098.15	1096.50	1098.90	1119.60	1149.45	1119.60
55.0	1048.20	1036.50	1076.25	1087.35	1044.60	1041.90	1042.80	1070.70	1101.90	1070.70
57.5	994.65	983.85	1025.55	1036.65	993.60	986.70	988.80	1019.40	1050.00	1019.40
60.0	942.30	930.75	973.05	986.40	938.55	931.20	933.60	964.50	997.95	964.50
62.5	885.15	875.85	920.40	931.20	883.50	874.50	876.45	909.15	940.50	909.15
65.0	826.20	819.15	863.55	874.80	827.70	812.25	817.80	854.25	883.50	854.25
67.5	765.90	763.35	807.45	818.40	767.25	754.35	758.85	795.60	827.55	795.60
70.0	708.00	703.05	748.20	759.75	708.15	691.80	697.80	733.80	765.45	733.80
72.5	651.00	645.15	690.30	700.50	649.05	633.45	638.10	674.25	701.10	674.25
75.0	587.85	584.55	630.30	639.15	590.10	572.40	577.35	612.45	641.55	612.45
77.5	524.85	525.90	569.25	578.25	527.40	512.25	515.25	550.35	576.45	550.35
80.0	465.15	463.50	508.50	517.50	468.60	450.90	454.50	489.30	514.50	489.30
82.5	404.10	401.85	446.25	454.65	406.50	389.25	394.65	427.20	447.90	427.20
85.0	335.55	337.05	381.30	387.60	344.25	323.40	327.60	362.40	379.95	362.40
87.5	250.80	253.95	294.60	298.95	264.90	236.70	238.50	271.35	283.95	271.35
90.0	170.85	174.15	209.10	219.30	188.40	174.45	172.95	200.70	215.70	200.70
92.5	157.05	159.75	191.40	201.45	175.20	164.55	165.15	188.40	200.55	188.40
95.0	155.25	155.55	186.00	198.30	182.40	172.50	175.35	193.65	193.80	193.65
97.5	168.00	163.20	191.55	206.55	192.30	187.05	187.80	196.20	201.00	196.20
100.0	179.25	170.25	187.65	194.70	177.45	178.05	175.65	182.55	199.95	182.55
102.5	176.40	166.80	177.30	179.10	160.95	163.05	161.55	170.10	193.65	170.10
105.0	167.55	157.95	171.75	166.95	149.25	148.65	147.00	164.10	184.05	164.10
107.5	155.70	151.20	165.75	158.70	136.65	138.75	141.60	158.55	179.25	158.55
110.0	150.00	147.75	160.65	151.05	130.80	129.45	136.50	152.40	172.80	152.40
112.5	143.10	141.15	150.15	145.95	126.60	124.05	130.20	144.75	167.70	144.75
115.0	139.80	130.95	140.10	139.35	121.05	119.55	120.90	136.50	161.25	136.50
117.5	129.60	115.65	132.60	133.20	116.55	114.75	114.30	132.75	153.00	132.75
120.0	124.35	105.00	125.55	126.60	113.25	109.65	103.95	125.85	146.10	125.85
122.5	109.80	99.60	117.90	121.80	108.75	103.50	97.95	117.45	140.55	117.45
125.0	98.25	94.05	111.60	114.45	102.15	100.05	92.70	112.95	132.45	112.95
127.5	89.70	87.90	106.35	109.05	96.90	92.55	87.45	107.55	125.10	107.55
130.0	82.80	84.00	100.50	103.50	91.80	85.20	82.95	99.60	116.70	99.60
132.5	78.45	81.15	96.30	98.10	84.75	80.85	79.35	93.60	108.30	93.60

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CANDELA TABULATION - (Cont.)

135.0	73.35	76.20	93.30	92.55	76.65	75.90	74.70	88.50	102.30	88.50
137.5	70.50	74.70	90.90	92.40	74.55	71.25	71.40	82.95	95.10	82.95
140.0	63.90	71.70	87.00	86.70	67.65	66.00	67.50	80.10	91.05	80.10
142.5	61.50	67.20	83.70	82.20	64.95	59.40	63.30	76.80	84.30	76.80
145.0	56.55	65.55	77.10	78.15	58.50	55.35	58.05	71.40	79.05	71.40
147.5	52.20	64.35	74.70	73.05	55.20	51.00	54.75	66.30	71.25	66.30
150.0	47.85	63.00	68.55	69.75	52.35	46.35	50.85	61.95	67.35	61.95
152.5	45.30	58.65	65.40	63.00	50.10	42.15	49.05	58.05	59.70	58.05
155.0	39.60	54.90	59.70	57.30	43.50	38.10	45.75	52.95	52.50	52.95
157.5	41.40	51.15	53.25	51.15	42.90	37.20	44.85	47.55	47.70	47.55
160.0	43.20	43.80	47.70	47.10	38.40	36.45	39.90	42.75	42.90	42.75
162.5	38.70	38.55	40.95	39.30	34.35	34.80	35.55	37.50	35.10	37.50
165.0	33.30	34.80	35.40	33.15	28.95	28.80	30.15	31.35	32.40	31.35
167.5	27.30	27.60	30.30	30.30	25.35	23.40	24.60	25.50	26.55	25.50
170.0	23.55	23.25	24.45	22.95	22.35	19.50	19.05	21.60	20.85	21.60
172.5	18.30	19.20	20.10	20.55	17.55	16.35	16.05	15.15	14.85	15.15
175.0	15.30	15.30	15.30	15.15	14.70	14.25	12.75	12.45	11.55	12.45
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05	1867.05
2.5	1862.70	1868.55	1875.60	1871.70	1863.00	1858.50	1872.45
5.0	1858.50	1865.10	1876.50	1875.75	1866.00	1861.80	1877.85
7.5	1858.50	1860.60	1872.90	1866.45	1856.25	1848.00	1859.70
10.0	1836.15	1849.35	1857.30	1852.65	1845.75	1830.15	1845.15
12.5	1816.65	1825.05	1836.45	1833.75	1830.15	1809.75	1828.80
15.0	1791.45	1799.70	1810.20	1808.70	1806.45	1785.30	1803.60
17.5	1764.30	1773.45	1774.50	1779.15	1774.80	1754.85	1775.25
20.0	1726.95	1740.75	1737.30	1745.70	1737.60	1717.65	1738.95
22.5	1689.15	1705.20	1696.35	1704.60	1698.75	1680.75	1701.00
25.0	1650.15	1660.20	1652.55	1661.70	1652.70	1634.55	1663.35
27.5	1606.50	1614.75	1606.50	1623.30	1607.40	1587.45	1615.80
30.0	1555.65	1568.25	1557.60	1571.40	1561.50	1542.90	1561.50
32.5	1503.75	1518.00	1506.75	1523.85	1515.90	1492.95	1515.15
35.0	1453.35	1465.35	1455.75	1474.35	1465.95	1442.25	1468.05
37.5	1404.15	1413.30	1405.65	1426.95	1416.30	1391.85	1416.60
40.0	1354.35	1359.75	1358.85	1377.90	1366.95	1340.70	1361.10
42.5	1304.25	1308.45	1305.75	1331.25	1319.10	1290.60	1307.55
45.0	1251.75	1255.65	1251.60	1284.00	1269.45	1241.10	1260.60
47.5	1201.65	1203.75	1201.05	1234.80	1224.45	1189.20	1209.60
50.0	1151.40	1150.05	1152.60	1187.10	1173.75	1139.40	1157.25
52.5	1098.90	1096.50	1098.15	1137.75	1125.60	1087.65	1101.45
55.0	1042.80	1041.90	1044.60	1087.35	1076.25	1036.50	1048.20
57.5	988.80	986.70	993.60	1036.65	1025.55	983.85	994.65
60.0	933.60	931.20	938.55	986.40	973.05	930.75	942.30
62.5	876.45	874.50	883.50	931.20	920.40	875.85	885.15
65.0	817.80	812.25	827.70	874.80	863.55	819.15	826.20
67.5	758.85	754.35	767.25	818.40	807.45	763.35	765.90
70.0	697.80	691.80	708.15	759.75	748.20	703.05	708.00
72.5	638.10	633.45	649.05	700.50	690.30	645.15	651.00
75.0	577.35	572.40	590.10	639.15	630.30	584.55	587.85
77.5	515.25	512.25	527.40	578.25	569.25	525.90	524.85
80.0	454.50	450.90	468.60	517.50	508.50	463.50	465.15

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CANDELA TABULATION - (Cont.)

82.5	394.65	389.25	406.50	454.65	446.25	401.85	404.10
85.0	327.60	323.40	344.25	387.60	381.30	337.05	335.55
87.5	238.50	236.70	264.90	298.95	294.60	253.95	250.80
90.0	172.95	174.45	188.40	219.30	209.10	174.15	170.85
92.5	165.15	164.55	175.20	201.45	191.40	159.75	157.05
95.0	175.35	172.50	182.40	198.30	186.00	155.55	155.25
97.5	187.80	187.05	192.30	206.55	191.55	163.20	168.00
100.0	175.65	178.05	177.45	194.70	187.65	170.25	179.25
102.5	161.55	163.05	160.95	179.10	177.30	166.80	176.40
105.0	147.00	148.65	149.25	166.95	171.75	157.95	167.55
107.5	141.60	138.75	136.65	158.70	165.75	151.20	155.70
110.0	136.50	129.45	130.80	151.05	160.65	147.75	150.00
112.5	130.20	124.05	126.60	145.95	150.15	141.15	143.10
115.0	120.90	119.55	121.05	139.35	140.10	130.95	139.80
117.5	114.30	114.75	116.55	133.20	132.60	115.65	129.60
120.0	103.95	109.65	113.25	126.60	125.55	105.00	124.35
122.5	97.95	103.50	108.75	121.80	117.90	99.60	109.80
125.0	92.70	100.05	102.15	114.45	111.60	94.05	98.25
127.5	87.45	92.55	96.90	109.05	106.35	87.90	89.70
130.0	82.95	85.20	91.80	103.50	100.50	84.00	82.80
132.5	79.35	80.85	84.75	98.10	96.30	81.15	78.45
135.0	74.70	75.90	76.65	92.55	93.30	76.20	73.35
137.5	71.40	71.25	74.55	92.40	90.90	74.70	70.50
140.0	67.50	66.00	67.65	86.70	87.00	71.70	63.90
142.5	63.30	59.40	64.95	82.20	83.70	67.20	61.50
145.0	58.05	55.35	58.50	78.15	77.10	65.55	56.55
147.5	54.75	51.00	55.20	73.05	74.70	64.35	52.20
150.0	50.85	46.35	52.35	69.75	68.55	63.00	47.85
152.5	49.05	42.15	50.10	63.00	65.40	58.65	45.30
155.0	45.75	38.10	43.50	57.30	59.70	54.90	39.60
157.5	44.85	37.20	42.90	51.15	53.25	51.15	41.40
160.0	39.90	36.45	38.40	47.10	47.70	43.80	43.20
162.5	35.55	34.80	34.35	39.30	40.95	38.55	38.70
165.0	30.15	28.80	28.95	33.15	35.40	34.80	33.30
167.5	24.60	23.40	25.35	30.30	30.30	27.60	27.30
170.0	19.05	19.50	22.35	22.95	24.45	23.25	23.55
172.5	16.05	16.35	17.55	20.55	20.10	19.20	18.30
175.0	12.75	14.25	14.70	15.15	15.30	15.30	15.30
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	685.48	N.A.	10.00
0-30	1447.6	N.A.	21.10
0-40	2363.44	N.A.	34.40
0-60	4287.51	N.A.	62.40
0-80	5755.72	N.A.	83.80
0-90	6129.77	N.A.	89.20
10-90	5952.18	N.A.	86.60
20-40	1677.96	N.A.	24.40
20-50	2653.73	N.A.	38.60
40-70	2756.22	N.A.	40.10
60-80	1468.21	N.A.	21.40
70-80	636.06	N.A.	9.30
80-90	374.04	N.A.	5.40
90-110	371.30	N.A.	5.40
90-120	502.87	N.A.	7.30
90-130	597.75	N.A.	8.70
90-150	705.26	N.A.	10.30
90-180	739.64	N.A.	10.80
110-180	368.34	N.A.	5.40
0-180	6869.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	177.58
10-20	507.90
20-30	762.12
30-40	915.84
40-50	975.77
50-60	948.30
60-70	832.15
70-80	636.06
80-90	374.04
90-100	200.01
100-110	171.29
110-120	131.57
120-130	94.88
130-140	65.28
140-150	42.23
150-160	23.58
160-170	9.37
170-180	1.43

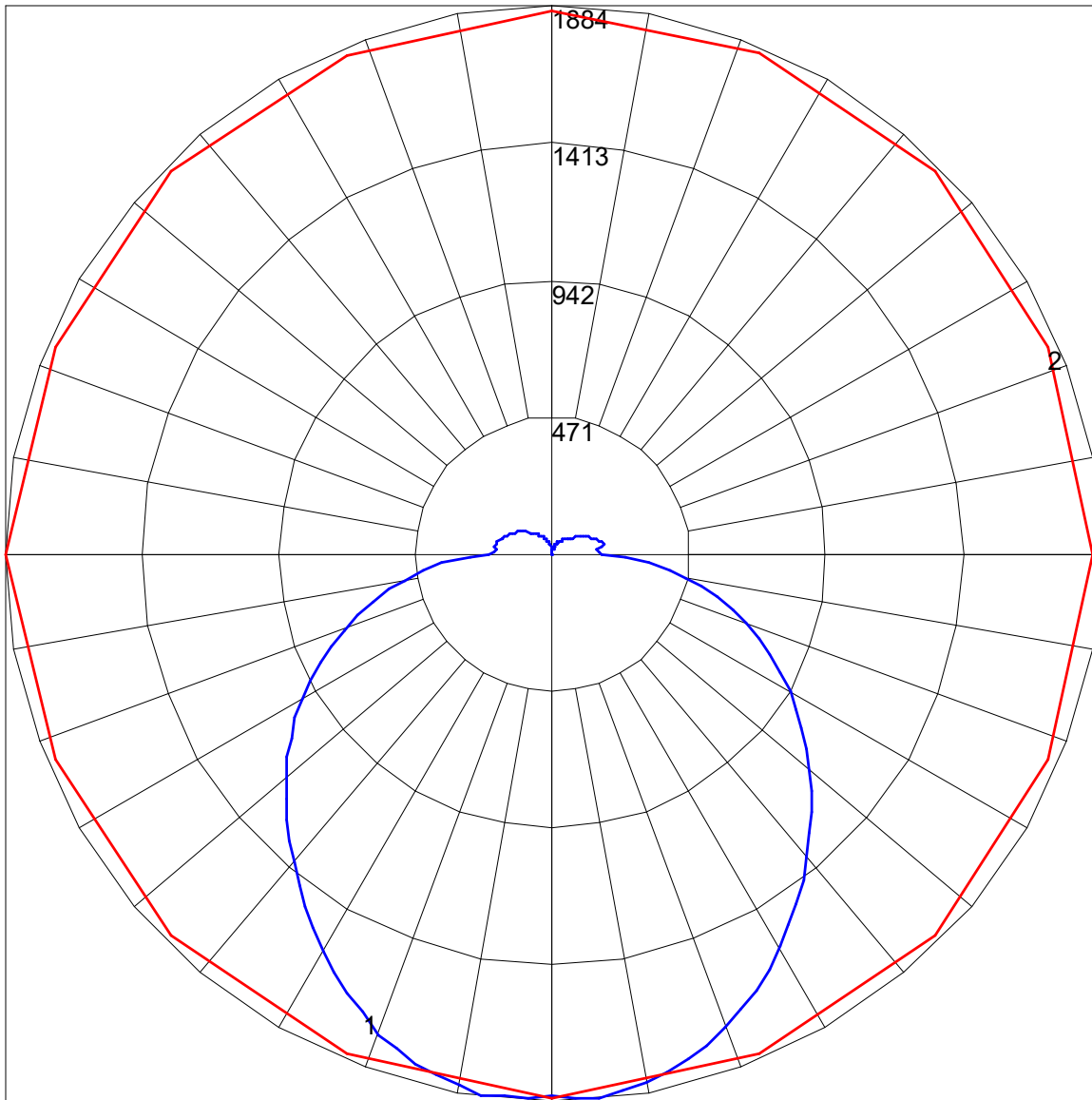
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1883.7 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.)