



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-PRO-44-LED35-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTRI-44-LED35-SO
 [TESTLAB] INTERTEK
 [ISSUEDATE] 8-9-18
 [MANUFAC] PRUDENTIAL
 [_TOTALLUMINAIRELUMENS] 7777.6

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13612
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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)	4.29 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	51103	32444	27719
55	51670	29128	23861
65	54035	25676	20089
75	59857	21577	16053
85	84688	16116	11122

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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	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300
2.5	3631.775	3612.700	3623.725	3631.075	3619.175	3627.750	3618.300	3611.125	3629.675	3611.125
5.0	3620.575	3607.100	3626.875	3630.900	3616.025	3617.600	3607.450	3606.750	3630.025	3606.750
7.5	3607.975	3593.625	3612.350	3623.900	3603.600	3598.175	3590.125	3594.500	3614.625	3594.500
10.0	3587.500	3564.925	3591.875	3603.075	3579.275	3571.925	3561.775	3568.775	3588.900	3568.775
12.5	3553.725	3526.775	3559.675	3570.875	3541.300	3536.400	3524.675	3529.750	3554.600	3529.750
15.0	3508.575	3481.275	3512.075	3523.100	3493.525	3489.850	3477.075	3485.300	3509.450	3485.300
17.5	3452.925	3421.425	3456.425	3467.625	3433.500	3433.325	3421.950	3425.800	3453.275	3425.800
20.0	3390.975	3354.750	3389.925	3402.000	3366.475	3370.500	3354.750	3358.600	3391.150	3358.600
22.5	3316.600	3277.400	3317.300	3328.850	3290.350	3295.425	3278.275	3286.500	3311.175	3286.500
25.0	3237.850	3195.325	3238.725	3249.925	3208.275	3215.275	3195.500	3203.725	3231.550	3203.725
27.5	3153.850	3108.350	3152.800	3164.875	3118.850	3130.925	3109.925	3117.625	3144.050	3117.625
30.0	3057.075	3019.975	3063.200	3076.500	3027.500	3041.675	3019.625	3028.725	3055.150	3028.725
32.5	2974.650	2927.050	2974.300	2986.025	2931.425	2951.725	2927.400	2936.325	2963.975	2936.325
35.0	2885.050	2830.625	2882.775	2892.575	2833.950	2854.075	2831.850	2841.650	2872.625	2841.650
37.5	2785.475	2732.975	2788.275	2798.600	2738.050	2758.350	2734.900	2746.275	2778.650	2746.275
40.0	2681.525	2636.900	2691.675	2706.550	2636.550	2658.425	2635.675	2652.650	2689.050	2652.650
42.5	2578.800	2539.950	2601.200	2612.225	2543.100	2558.675	2540.825	2558.500	2598.225	2558.500
45.0	2485.175	2441.075	2506.700	2521.750	2444.400	2458.225	2440.550	2466.275	2508.100	2466.275
47.5	2388.400	2341.325	2416.925	2429.875	2349.200	2355.850	2343.250	2372.475	2419.550	2372.475
50.0	2282.700	2242.450	2321.025	2336.425	2251.900	2253.125	2241.575	2279.375	2328.725	2279.375
52.5	2171.750	2139.550	2225.650	2243.500	2149.875	2151.275	2139.900	2185.050	2234.925	2185.050
55.0	2066.925	2041.550	2131.325	2147.250	2047.850	2044.700	2040.150	2088.625	2142.525	2088.625
57.5	1964.725	1937.250	2034.025	2049.775	1945.300	1940.050	1935.325	1988.175	2048.025	1988.175
60.0	1858.850	1832.075	1930.950	1949.850	1841.875	1831.375	1828.575	1890.000	1950.375	1890.000
62.5	1743.875	1726.025	1826.300	1843.625	1736.175	1721.825	1720.775	1787.625	1846.075	1787.625
65.0	1629.600	1614.200	1716.575	1736.350	1624.350	1608.950	1611.225	1679.650	1737.225	1679.650
67.5	1511.300	1499.225	1607.725	1626.800	1515.500	1497.475	1498.525	1568.875	1627.850	1568.875
70.0	1397.725	1383.375	1495.200	1513.050	1404.550	1381.625	1383.900	1456.350	1517.250	1456.350
72.5	1282.225	1267.875	1375.675	1399.125	1290.275	1268.225	1269.975	1343.475	1405.250	1343.475
75.0	1161.125	1154.300	1262.450	1284.500	1178.800	1151.500	1154.825	1229.550	1289.925	1229.550
77.5	1043.700	1037.050	1145.200	1166.375	1062.950	1033.025	1040.900	1112.650	1171.100	1112.650
80.0	925.225	917.700	1024.800	1044.225	944.125	917.175	924.350	994.000	1047.725	994.000
82.5	806.925	801.150	903.700	922.425	827.400	799.400	805.175	879.200	930.825	879.200
85.0	681.625	680.225	779.800	795.200	709.275	680.050	686.700	762.125	809.550	762.125
87.5	517.125	520.275	613.025	624.225	557.725	517.650	537.950	614.425	650.475	614.425
90.0	336.175	341.950	414.400	422.800	359.800	335.300	349.300	412.825	440.300	412.825
92.5	319.375	328.300	387.450	392.525	336.350	316.050	324.100	379.575	409.325	379.575
95.0	369.600	375.725	417.025	412.825	376.250	357.700	359.975	406.350	434.875	406.350
97.5	368.900	355.600	399.525	409.150	380.450	375.550	377.300	402.325	418.950	402.325
100.0	341.075	333.550	385.875	392.350	362.425	362.250	361.375	385.175	389.900	385.175
102.5	334.600	323.575	373.275	380.800	345.100	344.050	342.650	369.075	367.325	369.075
105.0	318.675	308.525	355.600	377.300	328.650	329.875	326.900	349.300	356.825	349.300
107.5	303.800	290.500	336.175	367.675	311.150	315.350	310.625	330.225	357.700	330.225
110.0	290.150	266.700	320.600	356.650	295.925	298.725	291.550	299.950	340.025	299.950
112.5	270.200	242.200	310.100	345.100	283.325	284.725	264.600	281.400	326.900	281.400
115.0	256.900	230.825	296.800	329.525	271.600	271.775	234.150	269.675	315.175	269.675
117.5	216.300	220.850	286.125	314.300	261.450	257.600	216.475	260.400	302.225	260.400
120.0	189.350	215.250	276.500	297.500	248.850	229.425	208.950	248.500	291.375	248.500
122.5	176.050	204.575	264.075	285.075	234.850	199.500	201.075	240.275	278.600	240.275
125.0	166.600	196.700	254.975	270.200	216.125	179.900	190.050	233.450	275.975	233.450
127.5	157.500	189.700	247.275	258.825	201.075	169.225	180.775	228.200	269.850	228.200
130.0	149.100	179.550	237.300	246.050	185.500	157.850	172.025	225.400	263.200	225.400
132.5	141.225	174.825	228.200	234.325	173.075	149.100	165.550	217.700	255.325	217.700

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CANDELA TABULATION - (Cont.)

135.0	130.725	170.975	218.575	224.875	159.425	138.075	160.300	210.525	243.950	210.525
137.5	126.175	167.300	211.750	212.100	151.025	126.525	160.825	201.075	228.550	201.075
140.0	119.350	161.700	201.250	199.150	138.425	115.850	160.825	193.550	216.650	193.550
142.5	112.175	154.000	189.175	186.550	130.375	108.325	157.325	185.675	202.125	185.675
145.0	119.875	148.925	175.000	170.975	122.850	105.875	152.425	176.575	187.075	176.575
147.5	139.650	146.125	162.750	158.550	114.275	103.425	145.950	164.325	171.850	164.325
150.0	131.950	134.750	148.575	147.875	107.800	104.825	135.800	148.400	157.150	148.400
152.5	120.750	123.725	135.975	131.950	96.250	103.075	123.375	136.325	143.850	136.325
155.0	108.675	110.250	123.550	119.350	86.975	103.950	111.125	121.800	130.200	121.800
157.5	99.575	98.525	110.775	107.800	78.225	94.500	98.175	109.900	114.975	109.900
160.0	87.500	87.850	96.950	94.675	71.750	83.475	88.725	99.575	100.625	99.575
162.5	75.075	76.125	84.525	80.850	61.775	72.975	77.350	84.700	89.075	84.700
165.0	65.450	66.850	72.100	71.050	56.525	64.750	67.200	73.675	73.325	73.675
167.5	52.850	55.825	59.500	59.325	47.250	49.875	53.900	61.425	64.225	61.425
170.0	45.500	45.850	49.525	49.525	41.475	44.625	45.325	51.100	49.525	51.100
172.5	34.125	36.575	40.425	38.325	32.025	35.700	38.675	41.650	40.600	41.650
175.0	29.750	29.400	29.750	28.875	27.825	29.750	29.225	31.850	30.800	31.850
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	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300	3625.300
2.5	3618.300	3627.750	3619.175	3631.075	3623.725	3612.700	3631.775
5.0	3607.450	3617.600	3616.025	3630.900	3626.875	3607.100	3620.575
7.5	3590.125	3598.175	3603.600	3623.900	3612.350	3593.625	3607.975
10.0	3561.775	3571.925	3579.275	3603.075	3591.875	3564.925	3587.500
12.5	3524.675	3536.400	3541.300	3570.875	3559.675	3526.775	3553.725
15.0	3477.075	3489.850	3493.525	3523.100	3512.075	3481.275	3508.575
17.5	3421.950	3433.325	3433.500	3467.625	3456.425	3421.425	3452.925
20.0	3354.750	3370.500	3366.475	3402.000	3389.925	3354.750	3390.975
22.5	3278.275	3295.425	3290.350	3328.850	3317.300	3277.400	3316.600
25.0	3195.500	3215.275	3208.275	3249.925	3238.725	3195.325	3237.850
27.5	3109.925	3130.925	3118.850	3164.875	3152.800	3108.350	3153.850
30.0	3019.625	3041.675	3027.500	3076.500	3063.200	3019.975	3057.075
32.5	2927.400	2951.725	2931.425	2986.025	2974.300	2927.050	2974.650
35.0	2831.850	2854.075	2833.950	2892.575	2882.775	2830.625	2885.050
37.5	2734.900	2758.350	2738.050	2798.600	2788.275	2732.975	2785.475
40.0	2635.675	2658.425	2636.550	2706.550	2691.675	2636.900	2681.525
42.5	2540.825	2558.675	2543.100	2612.225	2601.200	2539.950	2578.800
45.0	2440.550	2458.225	2444.400	2521.750	2506.700	2441.075	2485.175
47.5	2343.250	2355.850	2349.200	2429.875	2416.925	2341.325	2388.400
50.0	2241.575	2253.125	2251.900	2336.425	2321.025	2242.450	2282.700
52.5	2139.900	2151.275	2149.875	2243.500	2225.650	2139.550	2171.750
55.0	2040.150	2044.700	2047.850	2147.250	2131.325	2041.550	2066.925
57.5	1935.325	1940.050	1945.300	2049.775	2034.025	1937.250	1964.725
60.0	1828.575	1831.375	1841.875	1949.850	1930.950	1832.075	1858.850
62.5	1720.775	1721.825	1736.175	1843.625	1826.300	1726.025	1743.875
65.0	1611.225	1608.950	1624.350	1736.350	1716.575	1614.200	1629.600
67.5	1498.525	1497.475	1515.500	1626.800	1607.725	1499.225	1511.300
70.0	1383.900	1381.625	1404.550	1513.050	1495.200	1383.375	1397.725
72.5	1269.975	1268.225	1290.275	1399.125	1375.675	1267.875	1282.225
75.0	1154.825	1151.500	1178.800	1284.500	1262.450	1154.300	1161.125
77.5	1040.900	1033.025	1062.950	1166.375	1145.200	1037.050	1043.700
80.0	924.350	917.175	944.125	1044.225	1024.800	917.700	925.225

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CANDELA TABULATION - (Cont.)

82.5	805.175	799.400	827.400	922.425	903.700	801.150	806.925
85.0	686.700	680.050	709.275	795.200	779.800	680.225	681.625
87.5	537.950	517.650	557.725	624.225	613.025	520.275	517.125
90.0	349.300	335.300	359.800	422.800	414.400	341.950	336.175
92.5	324.100	316.050	336.350	392.525	387.450	328.300	319.375
95.0	359.975	357.700	376.250	412.825	417.025	375.725	369.600
97.5	377.300	375.550	380.450	409.150	399.525	355.600	368.900
100.0	361.375	362.250	362.425	392.350	385.875	333.550	341.075
102.5	342.650	344.050	345.100	380.800	373.275	323.575	334.600
105.0	326.900	329.875	328.650	377.300	355.600	308.525	318.675
107.5	310.625	315.350	311.150	367.675	336.175	290.500	303.800
110.0	291.550	298.725	295.925	356.650	320.600	266.700	290.150
112.5	264.600	284.725	283.325	345.100	310.100	242.200	270.200
115.0	234.150	271.775	271.600	329.525	296.800	230.825	256.900
117.5	216.475	257.600	261.450	314.300	286.125	220.850	216.300
120.0	208.950	229.425	248.850	297.500	276.500	215.250	189.350
122.5	201.075	199.500	234.850	285.075	264.075	204.575	176.050
125.0	190.050	179.900	216.125	270.200	254.975	196.700	166.600
127.5	180.775	169.225	201.075	258.825	247.275	189.700	157.500
130.0	172.025	157.850	185.500	246.050	237.300	179.550	149.100
132.5	165.550	149.100	173.075	234.325	228.200	174.825	141.225
135.0	160.300	138.075	159.425	224.875	218.575	170.975	130.725
137.5	160.825	126.525	151.025	212.100	211.750	167.300	126.175
140.0	160.825	115.850	138.425	199.150	201.250	161.700	119.350
142.5	157.325	108.325	130.375	186.550	189.175	154.000	112.175
145.0	152.425	105.875	122.850	170.975	175.000	148.925	119.875
147.5	145.950	103.425	114.275	158.550	162.750	146.125	139.650
150.0	135.800	104.825	107.800	147.875	148.575	134.750	131.950
152.5	123.375	103.075	96.250	131.950	135.975	123.725	120.750
155.0	111.125	103.950	86.975	119.350	123.550	110.250	108.675
157.5	98.175	94.500	78.225	107.800	110.775	98.525	99.575
160.0	88.725	83.475	71.750	94.675	96.950	87.850	87.500
162.5	77.350	72.975	61.775	80.850	84.525	76.125	75.075
165.0	67.200	64.750	56.525	71.050	72.100	66.850	65.450
167.5	53.900	49.875	47.250	59.325	59.500	55.825	52.850
170.0	45.325	44.625	41.475	49.525	49.525	45.850	45.500
172.5	38.675	35.700	32.025	38.325	40.425	36.575	34.125
175.0	29.225	29.750	27.825	28.875	29.750	29.400	29.750
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	1330.01	N.A.	9.80
0-30	2813.07	N.A.	20.70
0-40	4601.7	N.A.	33.80
0-60	8374.08	N.A.	61.50
0-80	11288.76	N.A.	82.90
0-90	12058.73	N.A.	88.60
10-90	11714.66	N.A.	86.10
20-40	3271.69	N.A.	24.00
20-50	5181.95	N.A.	38.10
40-70	5415.41	N.A.	39.80
60-80	2914.68	N.A.	21.40
70-80	1271.65	N.A.	9.30
80-90	769.96	N.A.	5.70
90-110	768.07	N.A.	5.60
90-120	1040.86	N.A.	7.60
90-130	1240.17	N.A.	9.10
90-150	1478.39	N.A.	10.90
90-180	1553.5	N.A.	11.40
110-180	785.42	N.A.	5.80
0-180	13612.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	344.07
10-20	985.94
20-30	1483.06
30-40	1788.62
40-50	1910.26
50-60	1862.12
60-70	1643.03
70-80	1271.65
80-90	769.96
90-100	409.71
100-110	358.36
110-120	272.79
120-130	199.31
130-140	142.98
140-150	95.24
150-160	52.38
160-170	19.70
170-180	3.03

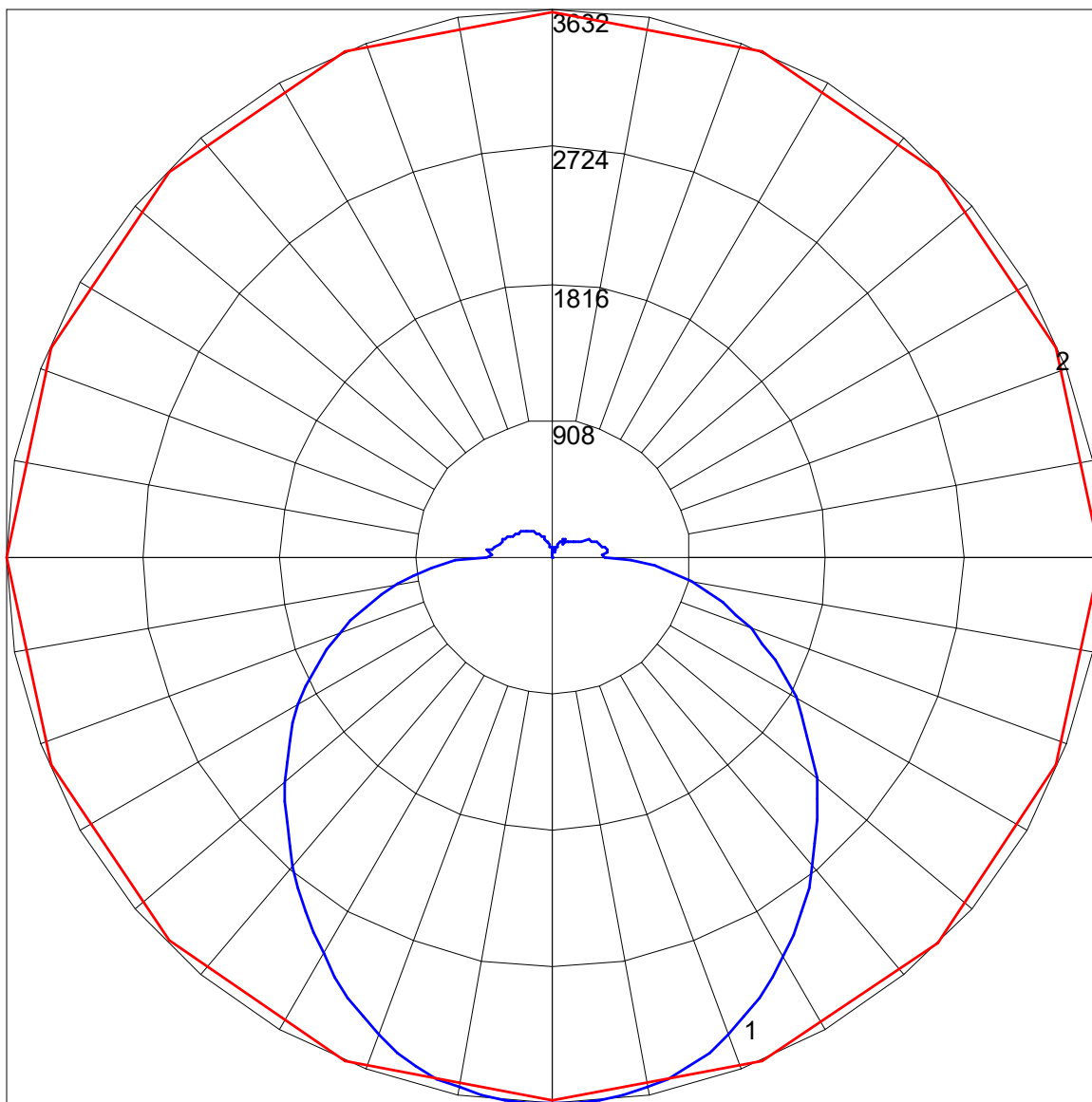
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	89	100	95	90	86	88	85	81	83	80	77	77	75	72	70
2	94	84	77	70	90	82	75	69	76	70	65	71	66	62	66	62	59	56
3	85	73	65	58	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	63	54	47	59	51	45	55	49	43	51	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	38	33	42	36	31	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	51	38	30	24	36	29	24	34	28	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 3631.775 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)