



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTRI-22-LED35-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BTRI-22-LED35-LO
 [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	3032
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	24.6
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	20945	13596	11737
55	20857	12084	10022
65	21115	10540	8412
75	22170	8679	6575
85	25416	6008	4249

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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	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1
2.5	838.2	846.0	844.7	840.0	837.3	839.6	843.5	847.8	841.0	847.8
5.0	837.7	845.2	844.0	840.5	838.2	840.3	842.0	849.1	845.6	849.1
7.5	838.4	842.6	841.5	840.3	836.7	833.2	837.3	846.0	837.1	846.0
10.0	827.1	836.2	833.1	832.0	828.6	827.0	832.2	837.1	832.2	837.1
12.5	817.9	823.2	824.5	821.9	819.5	818.2	824.4	827.7	821.5	827.7
15.0	806.7	812.9	812.7	810.1	805.0	806.7	813.6	815.5	811.2	815.5
17.5	793.7	796.9	799.0	797.1	790.7	794.0	800.5	801.8	797.0	801.8
20.0	779.0	780.0	783.1	783.4	773.8	778.2	781.9	785.3	783.9	785.3
22.5	759.2	760.6	766.3	765.1	755.8	760.4	762.2	766.8	763.2	766.8
25.0	739.9	741.0	745.3	744.3	734.8	741.5	740.8	745.9	743.0	745.9
27.5	720.1	720.6	723.7	724.3	713.5	719.2	719.9	724.7	722.2	724.7
30.0	696.0	696.4	700.8	703.1	692.9	698.9	699.0	702.4	702.1	702.4
32.5	676.0	673.7	679.2	680.3	667.6	676.3	675.7	679.1	679.5	679.1
35.0	653.8	650.1	656.8	658.1	644.4	653.0	651.9	656.8	658.1	656.8
37.5	630.6	627.7	634.0	635.0	621.1	631.0	627.3	633.0	635.6	633.0
40.0	605.8	604.0	611.9	613.1	597.8	606.9	605.5	611.9	613.6	611.9
42.5	583.5	580.8	590.8	592.8	575.2	582.4	581.7	588.2	592.5	588.2
45.0	559.5	556.2	568.1	570.8	552.7	558.8	558.2	565.8	571.5	565.8
47.5	538.0	532.9	546.8	550.0	529.0	533.9	532.8	541.9	549.2	541.9
50.0	513.0	509.5	524.0	527.0	507.4	508.6	509.3	519.7	527.7	519.7
52.5	488.2	486.2	501.1	506.3	483.5	484.1	486.5	497.5	505.7	497.5
55.0	463.5	460.3	479.5	483.1	459.3	459.7	460.6	472.9	483.3	472.9
57.5	438.7	436.4	456.1	460.7	437.1	435.6	435.3	449.9	461.0	449.9
60.0	414.2	412.4	432.4	437.6	412.6	410.3	411.2	425.8	437.8	425.8
62.5	386.4	387.3	409.6	413.0	388.4	382.4	385.4	401.8	413.8	401.8
65.0	360.2	361.3	383.4	387.9	363.2	357.0	359.6	375.2	387.2	375.2
67.5	332.6	334.3	357.5	361.9	336.9	330.6	333.4	349.0	363.4	349.0
70.0	307.0	307.9	332.3	335.1	310.2	302.9	306.1	322.9	335.9	322.9
72.5	279.8	281.1	304.1	308.1	284.2	275.8	278.8	295.3	308.3	295.3
75.0	252.2	253.5	277.4	281.3	257.8	248.9	252.9	268.8	281.2	268.8
77.5	222.9	225.3	249.9	254.0	230.2	220.3	223.5	240.5	251.7	240.5
80.0	195.3	198.5	222.1	224.7	202.8	193.3	195.5	211.5	224.2	211.5
82.5	167.6	171.0	192.2	196.4	175.0	164.8	165.7	184.9	193.8	184.9
85.0	135.9	139.7	159.7	163.3	144.7	131.8	133.2	152.0	159.8	152.0
87.5	103.4	106.1	125.2	129.3	110.2	99.6	102.7	117.5	124.0	117.5
90.0	82.1	82.2	99.8	101.1	86.9	79.5	79.8	92.5	101.4	92.5
92.5	74.7	77.2	91.4	93.8	80.5	75.8	75.9	86.8	93.9	86.8
95.0	72.5	73.3	85.7	87.9	75.7	73.1	72.1	82.7	89.0	82.7
97.5	70.4	69.8	82.0	85.5	75.9	70.4	72.8	81.4	83.6	81.4
100.0	70.6	67.6	81.3	84.3	75.7	72.6	73.4	80.8	83.1	80.8
102.5	68.5	67.3	79.0	82.8	72.4	73.5	72.1	77.6	82.2	77.6
105.0	69.4	66.6	72.6	76.4	69.2	69.1	69.2	69.9	79.2	69.9
107.5	69.0	62.3	69.3	70.6	64.4	64.9	64.5	65.0	73.3	65.0
110.0	62.2	57.2	65.7	66.0	58.3	60.3	57.3	61.0	70.7	61.0
112.5	59.2	53.7	61.4	62.6	54.9	55.5	54.1	59.0	65.4	59.0
115.0	53.6	51.5	59.2	58.1	50.9	52.2	49.9	56.2	61.4	56.2
117.5	52.7	49.7	54.5	54.9	46.6	49.0	47.2	53.7	60.0	53.7
120.0	49.3	48.3	52.7	52.8	44.2	46.8	46.1	50.1	56.2	50.1
122.5	48.3	45.3	50.1	50.0	41.7	44.8	44.2	47.6	53.3	47.6
125.0	44.6	42.6	48.4	47.7	40.8	41.6	41.9	46.9	51.4	46.9
127.5	42.9	40.3	45.5	44.4	38.3	39.1	38.1	44.2	49.3	44.2
130.0	41.7	36.5	43.4	42.2	36.1	38.8	35.2	41.8	46.7	41.8
132.5	36.2	34.0	40.5	39.4	35.0	36.5	34.3	39.9	43.8	39.9

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CANDELA TABULATION - (Cont.)

135.0	33.2	31.7	38.0	37.7	33.6	33.1	32.0	38.4	42.4	38.4
137.5	27.4	30.5	35.7	35.1	31.1	30.4	30.3	36.6	41.0	36.6
140.0	24.8	28.7	34.0	32.6	30.0	29.3	28.8	33.5	37.8	33.5
142.5	23.7	26.3	31.8	31.5	26.7	26.1	26.6	31.9	35.7	31.9
145.0	20.9	23.7	29.5	29.0	25.6	24.3	25.4	30.0	33.9	30.0
147.5	18.5	23.2	27.1	28.0	24.0	21.2	22.8	28.4	29.1	28.4
150.0	17.2	21.2	25.2	25.1	22.4	19.8	22.0	25.7	28.3	25.7
152.5	16.6	19.1	24.1	22.9	20.3	17.5	20.0	23.7	24.4	23.7
155.0	13.3	17.5	21.1	21.3	16.7	16.5	17.5	21.3	23.1	21.3
157.5	13.2	15.9	20.3	19.9	16.3	14.3	17.6	19.3	19.5	19.3
160.0	11.3	15.2	18.3	18.5	14.8	12.9	14.2	17.5	18.2	17.5
162.5	10.4	13.7	15.8	16.3	13.0	11.0	12.2	15.7	17.2	15.7
165.0	8.6	11.9	14.1	13.6	11.6	9.8	12.0	13.2	14.4	13.2
167.5	9.1	11.3	11.5	12.3	9.1	8.6	10.5	11.3	11.4	11.3
170.0	8.7	8.8	9.0	10.0	8.1	7.2	8.6	8.7	10.2	8.7
172.5	8.1	7.3	7.5	7.7	6.8	6.6	7.0	7.8	8.7	7.8
175.0	5.5	6.2	5.8	6.1	6.1	5.5	6.1	6.3	6.0	6.3
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	842.1	842.1	842.1	842.1	842.1	842.1	842.1
2.5	843.5	839.6	837.3	840.0	844.7	846.0	838.2
5.0	842.0	840.3	838.2	840.5	844.0	845.2	837.7
7.5	837.3	833.2	836.7	840.3	841.5	842.6	838.4
10.0	832.2	827.0	828.6	832.0	833.1	836.2	827.1
12.5	824.4	818.2	819.5	821.9	824.5	823.2	817.9
15.0	813.6	806.7	805.0	810.1	812.7	812.9	806.7
17.5	800.5	794.0	790.7	797.1	799.0	796.9	793.7
20.0	781.9	778.2	773.8	783.4	783.1	780.0	779.0
22.5	762.2	760.4	755.8	765.1	766.3	760.6	759.2
25.0	740.8	741.5	734.8	744.3	745.3	741.0	739.9
27.5	719.9	719.2	713.5	724.3	723.7	720.6	720.1
30.0	699.0	698.9	692.9	703.1	700.8	696.4	696.0
32.5	675.7	676.3	667.6	680.3	679.2	673.7	676.0
35.0	651.9	653.0	644.4	658.1	656.8	650.1	653.8
37.5	627.3	631.0	621.1	635.0	634.0	627.7	630.6
40.0	605.5	606.9	597.8	613.1	611.9	604.0	605.8
42.5	581.7	582.4	575.2	592.8	590.8	580.8	583.5
45.0	558.2	558.8	552.7	570.8	568.1	556.2	559.5
47.5	532.8	533.9	529.0	550.0	546.8	532.9	538.0
50.0	509.3	508.6	507.4	527.0	524.0	509.5	513.0
52.5	486.5	484.1	483.5	506.3	501.1	486.2	488.2
55.0	460.6	459.7	459.3	483.1	479.5	460.3	463.5
57.5	435.3	435.6	437.1	460.7	456.1	436.4	438.7
60.0	411.2	410.3	412.6	437.6	432.4	412.4	414.2
62.5	385.4	382.4	388.4	413.0	409.6	387.3	386.4
65.0	359.6	357.0	363.2	387.9	383.4	361.3	360.2
67.5	333.4	330.6	336.9	361.9	357.5	334.3	332.6
70.0	306.1	302.9	310.2	335.1	332.3	307.9	307.0
72.5	278.8	275.8	284.2	308.1	304.1	281.1	279.8
75.0	252.9	248.9	257.8	281.3	277.4	253.5	252.2
77.5	223.5	220.3	230.2	254.0	249.9	225.3	222.9
80.0	195.5	193.3	202.8	224.7	222.1	198.5	195.3

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CANDELA TABULATION - (Cont.)

82.5	165.7	164.8	175.0	196.4	192.2	171.0	167.6
85.0	133.2	131.8	144.7	163.3	159.7	139.7	135.9
87.5	102.7	99.6	110.2	129.3	125.2	106.1	103.4
90.0	79.8	79.5	86.9	101.1	99.8	82.2	82.1
92.5	75.9	75.8	80.5	93.8	91.4	77.2	74.7
95.0	72.1	73.1	75.7	87.9	85.7	73.3	72.5
97.5	72.8	70.4	75.9	85.5	82.0	69.8	70.4
100.0	73.4	72.6	75.7	84.3	81.3	67.6	70.6
102.5	72.1	73.5	72.4	82.8	79.0	67.3	68.5
105.0	69.2	69.1	69.2	76.4	72.6	66.6	69.4
107.5	64.5	64.9	64.4	70.6	69.3	62.3	69.0
110.0	57.3	60.3	58.3	66.0	65.7	57.2	62.2
112.5	54.1	55.5	54.9	62.6	61.4	53.7	59.2
115.0	49.9	52.2	50.9	58.1	59.2	51.5	53.6
117.5	47.2	49.0	46.6	54.9	54.5	49.7	52.7
120.0	46.1	46.8	44.2	52.8	52.7	48.3	49.3
122.5	44.2	44.8	41.7	50.0	50.1	45.3	48.3
125.0	41.9	41.6	40.8	47.7	48.4	42.6	44.6
127.5	38.1	39.1	38.3	44.4	45.5	40.3	42.9
130.0	35.2	38.8	36.1	42.2	43.4	36.5	41.7
132.5	34.3	36.5	35.0	39.4	40.5	34.0	36.2
135.0	32.0	33.1	33.6	37.7	38.0	31.7	33.2
137.5	30.3	30.4	31.1	35.1	35.7	30.5	27.4
140.0	28.8	29.3	30.0	32.6	34.0	28.7	24.8
142.5	26.6	26.1	26.7	31.5	31.8	26.3	23.7
145.0	25.4	24.3	25.6	29.0	29.5	23.7	20.9
147.5	22.8	21.2	24.0	28.0	27.1	23.2	18.5
150.0	22.0	19.8	22.4	25.1	25.2	21.2	17.2
152.5	20.0	17.5	20.3	22.9	24.1	19.1	16.6
155.0	17.5	16.5	16.7	21.3	21.1	17.5	13.3
157.5	17.6	14.3	16.3	19.9	20.3	15.9	13.2
160.0	14.2	12.9	14.8	18.5	18.3	15.2	11.3
162.5	12.2	11.0	13.0	16.3	15.8	13.7	10.4
165.0	12.0	9.8	11.6	13.6	14.1	11.9	8.6
167.5	10.5	8.6	9.1	12.3	11.5	11.3	9.1
170.0	8.6	7.2	8.1	10.0	9.0	8.8	8.7
172.5	7.0	6.6	6.8	7.7	7.5	7.3	8.1
175.0	6.1	5.5	6.1	6.1	5.8	6.2	5.5
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	308.71	N.A.	10.20
0-30	650.70	N.A.	21.50
0-40	1059.98	N.A.	35.00
0-60	1913.86	N.A.	63.10
0-80	2557.85	N.A.	84.40
0-90	2717.7	N.A.	89.60
10-90	2637.61	N.A.	87.00
20-40	751.27	N.A.	24.80
20-50	1185.45	N.A.	39.10
40-70	1220.32	N.A.	40.20
60-80	643.99	N.A.	21.20
70-80	277.55	N.A.	9.20
80-90	159.85	N.A.	5.30
90-110	162.31	N.A.	5.40
90-120	216.80	N.A.	7.20
90-130	256.82	N.A.	8.50
90-150	301.22	N.A.	9.90
90-180	314.35	N.A.	10.40
110-180	152.03	N.A.	5.00
0-180	3032.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.09
10-20	228.62
20-30	341.99
30-40	409.28
40-50	434.17
50-60	419.70
60-70	366.44
70-80	277.55
80-90	159.85
90-100	87.81
100-110	74.51
110-120	54.49
120-130	40.02
130-140	27.42
140-150	16.98
150-160	8.97
160-170	3.57
170-180	0.59

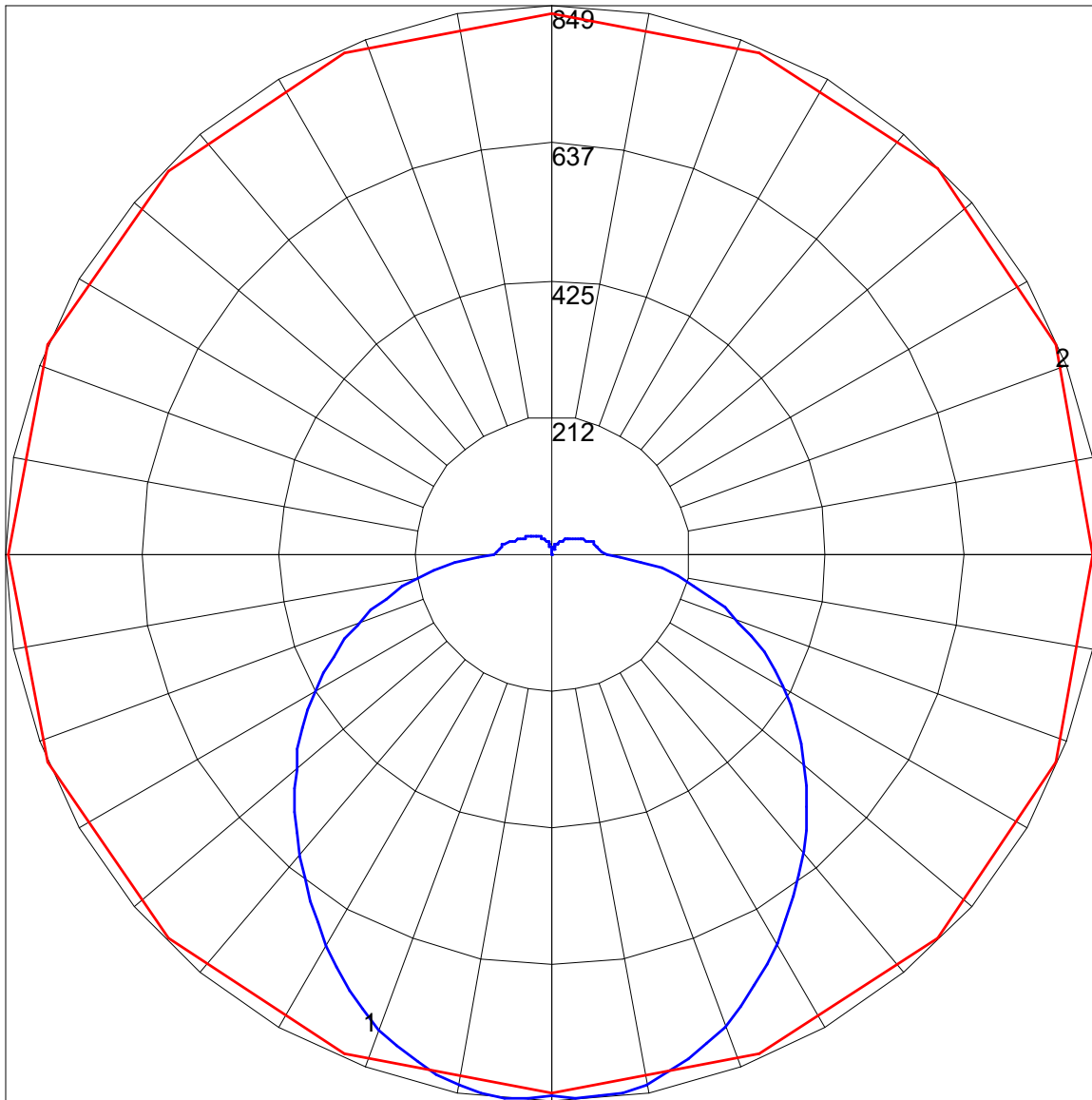
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 849.1 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.)