



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BTRI-22-LED35-SO
 [TESTLAB]INTERTEK
 [ISSUE DATE] 8-9-18
 [MANUFAC] PRUDENTIAL
 [_TOTAL LUMINAIRE LUMENS] 3031.7

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4548
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	42
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	31418	20395	17606
55	31285	18125	15033
65	31673	15810	12618
75	33255	13018	9862
85	38123	9013	6374

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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	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15
2.5	1257.30	1269.00	1267.05	1260.00	1255.95	1259.40	1265.25	1271.70	1261.50	1271.70
5.0	1256.55	1267.80	1266.00	1260.75	1257.30	1260.45	1263.00	1273.65	1268.40	1273.65
7.5	1257.60	1263.90	1262.25	1260.45	1255.05	1249.80	1255.95	1269.00	1255.65	1269.00
10.0	1240.65	1254.30	1249.65	1248.00	1242.90	1240.50	1248.30	1255.65	1248.30	1255.65
12.5	1226.85	1234.80	1236.75	1232.85	1229.25	1227.30	1236.60	1241.55	1232.25	1241.55
15.0	1210.05	1219.35	1219.05	1215.15	1207.50	1210.05	1220.40	1223.25	1216.80	1223.25
17.5	1190.55	1195.35	1198.50	1195.65	1186.05	1191.00	1200.75	1202.70	1195.50	1202.70
20.0	1168.50	1170.00	1174.65	1175.10	1160.70	1167.30	1172.85	1177.95	1175.85	1177.95
22.5	1138.80	1140.90	1149.45	1147.65	1133.70	1140.60	1143.30	1150.20	1144.80	1150.20
25.0	1109.85	1111.50	1117.95	1116.45	1102.20	1112.25	1111.20	1118.85	1114.50	1118.85
27.5	1080.15	1080.90	1085.55	1086.45	1070.25	1078.80	1079.85	1087.05	1083.30	1087.05
30.0	1044.00	1044.60	1051.20	1054.65	1039.35	1048.35	1048.50	1053.60	1053.15	1053.60
32.5	1014.00	1010.55	1018.80	1020.45	1001.40	1014.45	1013.55	1018.65	1019.25	1018.65
35.0	980.70	975.15	985.20	987.15	966.60	979.50	977.85	985.20	987.15	985.20
37.5	945.90	941.55	951.00	952.50	931.65	946.50	940.95	949.50	953.40	949.50
40.0	908.70	906.00	917.85	919.65	896.70	910.35	908.25	917.85	920.40	917.85
42.5	875.25	871.20	886.20	889.20	862.80	873.60	872.55	882.30	888.75	882.30
45.0	839.25	834.30	852.15	856.20	829.05	838.20	837.30	848.70	857.25	848.70
47.5	807.00	799.35	820.20	825.00	793.50	800.85	799.20	812.85	823.80	812.85
50.0	769.50	764.25	786.00	790.50	761.10	762.90	763.95	779.55	791.55	779.55
52.5	732.30	729.30	751.65	759.45	725.25	726.15	729.75	746.25	758.55	746.25
55.0	695.25	690.45	719.25	724.65	688.95	689.55	690.90	709.35	724.95	709.35
57.5	658.05	654.60	684.15	691.05	655.65	653.40	652.95	674.85	691.50	674.85
60.0	621.30	618.60	648.60	656.40	618.90	615.45	616.80	638.70	656.70	638.70
62.5	579.60	580.95	614.40	619.50	582.60	573.60	578.10	602.70	620.70	602.70
65.0	540.30	541.95	575.10	581.85	544.80	535.50	539.40	562.80	580.80	562.80
67.5	498.90	501.45	536.25	542.85	505.35	495.90	500.10	523.50	545.10	523.50
70.0	460.50	461.85	498.45	502.65	465.30	454.35	459.15	484.35	503.85	484.35
72.5	419.70	421.65	456.15	462.15	426.30	413.70	418.20	442.95	462.45	442.95
75.0	378.30	380.25	416.10	421.95	386.70	373.35	379.35	403.20	421.80	403.20
77.5	334.35	337.95	374.85	381.00	345.30	330.45	335.25	360.75	377.55	360.75
80.0	292.95	297.75	333.15	337.05	304.20	289.95	293.25	317.25	336.30	317.25
82.5	251.40	256.50	288.30	294.60	262.50	247.20	248.55	277.35	290.70	277.35
85.0	203.85	209.55	239.55	244.95	217.05	197.70	199.80	228.00	239.70	228.00
87.5	155.10	159.15	187.80	193.95	165.30	149.40	154.05	176.25	186.00	176.25
90.0	123.15	123.30	149.70	151.65	130.35	119.25	119.70	138.75	152.10	138.75
92.5	112.05	115.80	137.10	140.70	120.75	113.70	113.85	130.20	140.85	130.20
95.0	108.75	109.95	128.55	131.85	113.55	109.65	108.15	124.05	133.50	124.05
97.5	105.60	104.70	123.00	128.25	113.85	105.60	109.20	122.10	125.40	122.10
100.0	105.90	101.40	121.95	126.45	113.55	108.90	110.10	121.20	124.65	121.20
102.5	102.75	100.95	118.50	124.20	108.60	110.25	108.15	116.40	123.30	116.40
105.0	104.10	99.90	108.90	114.60	103.80	103.65	103.80	104.85	118.80	104.85
107.5	103.50	93.45	103.95	105.90	96.60	97.35	96.75	97.50	109.95	97.50
110.0	93.30	85.80	98.55	99.00	87.45	90.45	85.95	91.50	106.05	91.50
112.5	88.80	80.55	92.10	93.90	82.35	83.25	81.15	88.50	98.10	88.50
115.0	80.40	77.25	88.80	87.15	76.35	78.30	74.85	84.30	92.10	84.30
117.5	79.05	74.55	81.75	82.35	69.90	73.50	70.80	80.55	90.00	80.55
120.0	73.95	72.45	79.05	79.20	66.30	70.20	69.15	75.15	84.30	75.15
122.5	72.45	67.95	75.15	75.00	62.55	67.20	66.30	71.40	79.95	71.40
125.0	66.90	63.90	72.60	71.55	61.20	62.40	62.85	70.35	77.10	70.35
127.5	64.35	60.45	68.25	66.60	57.45	58.65	57.15	66.30	73.95	66.30
130.0	62.55	54.75	65.10	63.30	54.15	58.20	52.80	62.70	70.05	62.70
132.5	54.30	51.00	60.75	59.10	52.50	54.75	51.45	59.85	65.70	59.85

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CANDELA TABULATION - (Cont.)

135.0	49.80	47.55	57.00	56.55	50.40	49.65	48.00	57.60	63.60	57.60
137.5	41.10	45.75	53.55	52.65	46.65	45.60	45.45	54.90	61.50	54.90
140.0	37.20	43.05	51.00	48.90	45.00	43.95	43.20	50.25	56.70	50.25
142.5	35.55	39.45	47.70	47.25	40.05	39.15	39.90	47.85	53.55	47.85
145.0	31.35	35.55	44.25	43.50	38.40	36.45	38.10	45.00	50.85	45.00
147.5	27.75	34.80	40.65	42.00	36.00	31.80	34.20	42.60	43.65	42.60
150.0	25.80	31.80	37.80	37.65	33.60	29.70	33.00	38.55	42.45	38.55
152.5	24.90	28.65	36.15	34.35	30.45	26.25	30.00	35.55	36.60	35.55
155.0	19.95	26.25	31.65	31.95	25.05	24.75	26.25	31.95	34.65	31.95
157.5	19.80	23.85	30.45	29.85	24.45	21.45	26.40	28.95	29.25	28.95
160.0	16.95	22.80	27.45	27.75	22.20	19.35	21.30	26.25	27.30	26.25
162.5	15.60	20.55	23.70	24.45	19.50	16.50	18.30	23.55	25.80	23.55
165.0	12.90	17.85	21.15	20.40	17.40	14.70	18.00	19.80	21.60	19.80
167.5	13.65	16.95	17.25	18.45	13.65	12.90	15.75	16.95	17.10	16.95
170.0	13.05	13.20	13.50	15.00	12.15	10.80	12.90	13.05	15.30	13.05
172.5	12.15	10.95	11.25	11.55	10.20	9.90	10.50	11.70	13.05	11.70
175.0	8.25	9.30	8.70	9.15	9.15	8.25	9.15	9.45	9.00	9.45
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	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15	1263.15
2.5	1265.25	1259.40	1255.95	1260.00	1267.05	1269.00	1257.30
5.0	1263.00	1260.45	1257.30	1260.75	1266.00	1267.80	1256.55
7.5	1255.95	1249.80	1255.05	1260.45	1262.25	1263.90	1257.60
10.0	1248.30	1240.50	1242.90	1248.00	1249.65	1254.30	1240.65
12.5	1236.60	1227.30	1229.25	1232.85	1236.75	1234.80	1226.85
15.0	1220.40	1210.05	1207.50	1215.15	1219.05	1219.35	1210.05
17.5	1200.75	1191.00	1186.05	1195.65	1198.50	1195.35	1190.55
20.0	1172.85	1167.30	1160.70	1175.10	1174.65	1170.00	1168.50
22.5	1143.30	1140.60	1133.70	1147.65	1149.45	1140.90	1138.80
25.0	1111.20	1112.25	1102.20	1116.45	1117.95	1111.50	1109.85
27.5	1079.85	1078.80	1070.25	1086.45	1085.55	1080.90	1080.15
30.0	1048.50	1048.35	1039.35	1054.65	1051.20	1044.60	1044.00
32.5	1013.55	1014.45	1001.40	1020.45	1018.80	1010.55	1014.00
35.0	977.85	979.50	966.60	987.15	985.20	975.15	980.70
37.5	940.95	946.50	931.65	952.50	951.00	941.55	945.90
40.0	908.25	910.35	896.70	919.65	917.85	906.00	908.70
42.5	872.55	873.60	862.80	889.20	886.20	871.20	875.25
45.0	837.30	838.20	829.05	856.20	852.15	834.30	839.25
47.5	799.20	800.85	793.50	825.00	820.20	799.35	807.00
50.0	763.95	762.90	761.10	790.50	786.00	764.25	769.50
52.5	729.75	726.15	725.25	759.45	751.65	729.30	732.30
55.0	690.90	689.55	688.95	724.65	719.25	690.45	695.25
57.5	652.95	653.40	655.65	691.05	684.15	654.60	658.05
60.0	616.80	615.45	618.90	656.40	648.60	618.60	621.30
62.5	578.10	573.60	582.60	619.50	614.40	580.95	579.60
65.0	539.40	535.50	544.80	581.85	575.10	541.95	540.30
67.5	500.10	495.90	505.35	542.85	536.25	501.45	498.90
70.0	459.15	454.35	465.30	502.65	498.45	461.85	460.50
72.5	418.20	413.70	426.30	462.15	456.15	421.65	419.70
75.0	379.35	373.35	386.70	421.95	416.10	380.25	378.30
77.5	335.25	330.45	345.30	381.00	374.85	337.95	334.35
80.0	293.25	289.95	304.20	337.05	333.15	297.75	292.95

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CANDELA TABULATION - (Cont.)

82.5	248.55	247.20	262.50	294.60	288.30	256.50	251.40
85.0	199.80	197.70	217.05	244.95	239.55	209.55	203.85
87.5	154.05	149.40	165.30	193.95	187.80	159.15	155.10
90.0	119.70	119.25	130.35	151.65	149.70	123.30	123.15
92.5	113.85	113.70	120.75	140.70	137.10	115.80	112.05
95.0	108.15	109.65	113.55	131.85	128.55	109.95	108.75
97.5	109.20	105.60	113.85	128.25	123.00	104.70	105.60
100.0	110.10	108.90	113.55	126.45	121.95	101.40	105.90
102.5	108.15	110.25	108.60	124.20	118.50	100.95	102.75
105.0	103.80	103.65	103.80	114.60	108.90	99.90	104.10
107.5	96.75	97.35	96.60	105.90	103.95	93.45	103.50
110.0	85.95	90.45	87.45	99.00	98.55	85.80	93.30
112.5	81.15	83.25	82.35	93.90	92.10	80.55	88.80
115.0	74.85	78.30	76.35	87.15	88.80	77.25	80.40
117.5	70.80	73.50	69.90	82.35	81.75	74.55	79.05
120.0	69.15	70.20	66.30	79.20	79.05	72.45	73.95
122.5	66.30	67.20	62.55	75.00	75.15	67.95	72.45
125.0	62.85	62.40	61.20	71.55	72.60	63.90	66.90
127.5	57.15	58.65	57.45	66.60	68.25	60.45	64.35
130.0	52.80	58.20	54.15	63.30	65.10	54.75	62.55
132.5	51.45	54.75	52.50	59.10	60.75	51.00	54.30
135.0	48.00	49.65	50.40	56.55	57.00	47.55	49.80
137.5	45.45	45.60	46.65	52.65	53.55	45.75	41.10
140.0	43.20	43.95	45.00	48.90	51.00	43.05	37.20
142.5	39.90	39.15	40.05	47.25	47.70	39.45	35.55
145.0	38.10	36.45	38.40	43.50	44.25	35.55	31.35
147.5	34.20	31.80	36.00	42.00	40.65	34.80	27.75
150.0	33.00	29.70	33.60	37.65	37.80	31.80	25.80
152.5	30.00	26.25	30.45	34.35	36.15	28.65	24.90
155.0	26.25	24.75	25.05	31.95	31.65	26.25	19.95
157.5	26.40	21.45	24.45	29.85	30.45	23.85	19.80
160.0	21.30	19.35	22.20	27.75	27.45	22.80	16.95
162.5	18.30	16.50	19.50	24.45	23.70	20.55	15.60
165.0	18.00	14.70	17.40	20.40	21.15	17.85	12.90
167.5	15.75	12.90	13.65	18.45	17.25	16.95	13.65
170.0	12.90	10.80	12.15	15.00	13.50	13.20	13.05
172.5	10.50	9.90	10.20	11.55	11.25	10.95	12.15
175.0	9.15	8.25	9.15	9.15	8.70	9.30	8.25
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	463.06	N.A.	10.20
0-30	976.05	N.A.	21.50
0-40	1589.97	N.A.	35.00
0-60	2870.79	N.A.	63.10
0-80	3836.77	N.A.	84.40
0-90	4076.55	N.A.	89.60
10-90	3956.41	N.A.	87.00
20-40	1126.91	N.A.	24.80
20-50	1778.17	N.A.	39.10
40-70	1830.48	N.A.	40.20
60-80	965.99	N.A.	21.20
70-80	416.32	N.A.	9.20
80-90	239.78	N.A.	5.30
90-110	243.47	N.A.	5.40
90-120	325.20	N.A.	7.20
90-130	385.22	N.A.	8.50
90-150	451.82	N.A.	9.90
90-180	471.52	N.A.	10.40
110-180	228.05	N.A.	5.00
0-180	4548.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.14
10-20	342.93
20-30	512.99
30-40	613.92
40-50	651.26
50-60	629.55
60-70	549.66
70-80	416.32
80-90	239.78
90-100	131.71
100-110	111.76
110-120	81.73
120-130	60.02
130-140	41.12
140-150	25.48
150-160	13.45
160-170	5.36
170-180	0.88

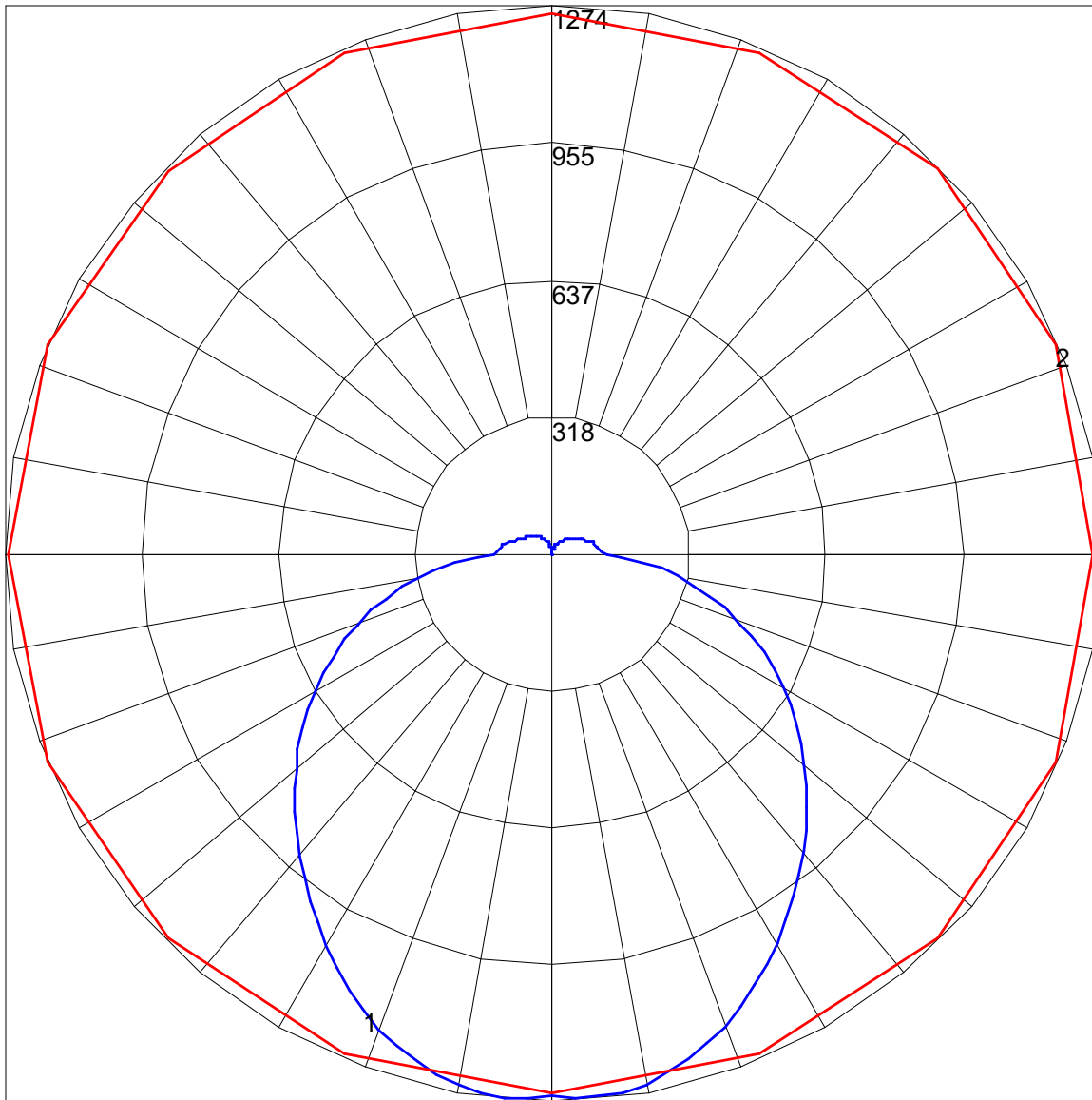
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1273.65 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.)