



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BTR-PROI-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	3017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	23
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	20840	13528	11679
55	20752	12023	9972
65	21010	10488	8370
75	22059	8636	6542
85	25289	5978	4228

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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	837.890	837.890	837.890	837.890	837.890	837.890	837.890	837.890	837.890	837.890
2.5	834.009	841.770	840.477	835.800	833.114	835.402	839.283	843.561	836.795	843.561
5.0	833.512	840.974	839.780	836.298	834.009	836.099	837.790	844.855	841.372	844.855
7.5	834.208	838.387	837.293	836.099	832.517	829.034	833.114	841.770	832.915	841.770
10.0	822.965	832.019	828.935	827.840	824.457	822.865	828.039	832.915	828.039	832.915
12.5	813.811	819.084	820.378	817.791	815.403	814.109	820.278	823.562	817.393	823.562
15.0	802.667	808.836	808.637	806.050	800.975	802.667	809.532	811.423	807.144	811.423
17.5	789.732	792.916	795.005	793.115	786.747	790.030	796.498	797.791	793.015	797.791
20.0	775.105	776.100	779.185	779.483	769.931	774.309	777.991	781.374	779.981	781.374
22.5	755.404	756.797	762.469	761.275	752.021	756.598	758.389	762.966	759.384	762.966
25.0	736.201	737.295	741.574	740.579	731.126	737.793	737.096	742.171	739.285	742.171
27.5	716.500	716.997	720.082	720.679	709.933	715.604	716.301	721.077	718.589	721.077
30.0	692.520	692.918	697.296	699.585	689.436	695.406	695.505	698.888	698.590	698.888
32.5	672.620	670.332	675.804	676.899	664.262	672.919	672.322	675.705	676.103	675.705
35.0	650.531	646.850	653.516	654.810	641.178	649.735	648.641	653.516	654.810	653.516
37.5	627.447	624.562	630.830	631.825	617.995	627.845	624.164	629.835	632.422	629.835
40.0	602.771	600.980	608.841	610.035	594.811	603.866	602.473	608.841	610.532	608.841
42.5	580.583	577.896	587.846	589.836	572.324	579.488	578.792	585.259	589.538	585.259
45.0	556.703	553.419	565.260	567.946	549.937	556.006	555.409	562.971	568.643	562.971
47.5	535.310	530.236	544.066	547.250	526.355	531.231	530.136	539.191	546.454	539.191
50.0	510.435	506.953	521.380	524.365	504.863	506.057	506.754	517.102	525.062	517.102
52.5	485.759	483.769	498.595	503.769	481.083	481.680	484.068	495.013	503.172	495.013
55.0	461.183	457.999	477.103	480.685	457.004	457.402	458.297	470.536	480.884	470.536
57.5	436.507	434.218	453.820	458.397	434.915	433.422	433.124	447.651	458.695	447.651
60.0	412.129	410.338	430.238	435.412	410.537	408.249	409.144	423.671	435.611	423.671
62.5	384.468	385.364	407.552	410.935	386.458	380.488	383.473	399.791	411.731	399.791
65.0	358.399	359.494	381.483	385.961	361.384	355.215	357.802	373.324	385.264	373.324
67.5	330.937	332.629	355.713	360.091	335.216	328.947	331.733	347.255	361.583	347.255
70.0	305.465	306.361	330.639	333.425	308.649	301.386	304.570	321.286	334.221	321.286
72.5	278.401	279.695	302.580	306.560	282.779	274.421	277.406	293.824	306.759	293.824
75.0	250.939	252.233	276.013	279.894	256.511	247.656	251.636	267.456	279.794	267.456
77.5	221.786	224.174	248.651	252.730	229.049	219.199	222.383	239.298	250.442	239.298
80.0	194.324	197.508	220.990	223.577	201.786	192.334	194.523	210.443	223.079	210.443
82.5	166.762	170.145	191.239	195.418	174.125	163.976	164.872	183.976	192.831	183.976
85.0	135.221	139.002	158.902	162.484	143.977	131.141	132.534	151.240	159.001	151.240
87.5	102.883	105.570	124.574	128.654	109.649	99.102	102.187	116.913	123.380	116.913
90.0	81.690	81.789	99.301	100.595	86.466	79.103	79.401	92.038	100.893	92.038
92.5	74.327	76.814	90.943	93.331	80.098	75.421	75.521	86.366	93.431	86.366
95.0	72.138	72.934	85.272	87.461	75.322	72.735	71.740	82.287	88.555	82.287
97.5	70.048	69.451	81.590	85.073	75.521	70.048	72.436	80.993	83.182	80.993
100.0	70.247	67.262	80.894	83.879	75.322	72.237	73.033	80.396	82.685	80.396
102.5	68.158	66.964	78.605	82.386	72.038	73.133	71.740	77.212	81.789	77.212
105.0	69.053	66.267	72.237	76.018	68.854	68.755	68.854	69.551	78.804	69.551
107.5	68.655	61.989	68.954	70.247	64.078	64.576	64.178	64.675	72.934	64.675
110.0	61.889	56.914	65.372	65.670	58.009	59.999	57.014	60.695	70.347	60.695
112.5	58.904	53.432	61.093	62.287	54.626	55.223	53.830	58.705	65.073	58.705
115.0	53.332	51.243	58.904	57.810	50.646	51.939	49.651	55.919	61.093	55.919
117.5	52.437	49.452	54.228	54.626	46.367	48.755	46.964	53.432	59.700	53.432
120.0	49.054	48.059	52.437	52.536	43.979	46.566	45.870	49.850	55.919	49.850
122.5	48.059	45.074	49.850	49.750	41.492	44.576	43.979	47.362	53.034	47.362
125.0	44.377	42.387	48.158	47.462	40.596	41.392	41.691	46.666	51.143	46.666
127.5	42.686	40.099	45.273	44.178	38.109	38.905	37.910	43.979	49.054	43.979
130.0	41.492	36.318	43.183	41.989	35.920	38.606	35.024	41.591	46.467	41.591
132.5	36.019	33.830	40.298	39.203	34.825	36.318	34.129	39.701	43.581	39.701

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CANDELA TABULATION - (Cont.)

135.0	33.034	31.542	37.810	37.512	33.432	32.935	31.840	38.208	42.188	38.208
137.5	27.263	30.348	35.522	34.925	30.945	30.248	30.149	36.417	40.795	36.417
140.0	24.676	28.557	33.830	32.437	29.850	29.154	28.656	33.333	37.611	33.333
142.5	23.582	26.169	31.641	31.343	26.567	25.970	26.467	31.741	35.522	31.741
145.0	20.796	23.582	29.353	28.855	25.472	24.179	25.273	29.850	33.731	29.850
147.5	18.408	23.084	26.965	27.860	23.880	21.094	22.686	28.258	28.955	28.258
150.0	17.114	21.094	25.074	24.975	22.288	19.701	21.890	25.572	28.159	25.572
152.5	16.517	19.005	23.980	22.786	20.199	17.413	19.900	23.582	24.278	23.582
155.0	13.234	17.413	20.995	21.194	16.617	16.418	17.413	21.194	22.985	21.194
157.5	13.134	15.821	20.199	19.801	16.219	14.229	17.512	19.204	19.403	19.204
160.0	11.244	15.124	18.209	18.408	14.726	12.836	14.129	17.413	18.109	17.413
162.5	10.348	13.632	15.721	16.219	12.935	10.945	12.139	15.622	17.114	15.622
165.0	8.557	11.841	14.030	13.532	11.542	9.751	11.940	13.134	14.328	13.134
167.5	9.055	11.244	11.443	12.239	9.055	8.557	10.448	11.244	11.343	11.244
170.0	8.657	8.756	8.955	9.950	8.060	7.164	8.557	8.657	10.149	8.657
172.5	8.060	7.264	7.463	7.662	6.766	6.567	6.965	7.761	8.657	7.761
175.0	5.473	6.169	5.771	6.070	6.070	5.473	6.070	6.269	5.970	6.269
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	837.890	837.890	837.890	837.890	837.890	837.890	837.890
2.5	839.283	835.402	833.114	835.800	840.477	841.770	834.009
5.0	837.790	836.099	834.009	836.298	839.780	840.974	833.512
7.5	833.114	829.034	832.517	836.099	837.293	838.387	834.208
10.0	828.039	822.865	824.457	827.840	828.935	832.019	822.965
12.5	820.278	814.109	815.403	817.791	820.378	819.084	813.811
15.0	809.532	802.667	800.975	806.050	808.637	808.836	802.667
17.5	796.498	790.030	786.747	793.115	795.005	792.916	789.732
20.0	777.991	774.309	769.931	779.483	779.185	776.100	775.105
22.5	758.389	756.598	752.021	761.275	762.469	756.797	755.404
25.0	737.096	737.793	731.126	740.579	741.574	737.295	736.201
27.5	716.301	715.604	709.933	720.679	720.082	716.997	716.500
30.0	695.505	695.406	689.436	699.585	697.296	692.918	692.520
32.5	672.322	672.919	664.262	676.899	675.804	670.332	672.620
35.0	648.641	649.735	641.178	654.810	653.516	646.850	650.531
37.5	624.164	627.845	617.995	631.825	630.830	624.562	627.447
40.0	602.473	603.866	594.811	610.035	608.841	600.980	602.771
42.5	578.792	579.488	572.324	589.836	587.846	577.896	580.583
45.0	555.409	556.006	549.937	567.946	565.260	553.419	556.703
47.5	530.136	531.231	526.355	547.250	544.066	530.236	535.310
50.0	506.754	506.057	504.863	524.365	521.380	506.953	510.435
52.5	484.068	481.680	481.083	503.769	498.595	483.769	485.759
55.0	458.297	457.402	457.004	480.685	477.103	457.999	461.183
57.5	433.124	433.422	434.915	458.397	453.820	434.218	436.507
60.0	409.144	408.249	410.537	435.412	430.238	410.338	412.129
62.5	383.473	380.488	386.458	410.935	407.552	385.364	384.468
65.0	357.802	355.215	361.384	385.961	381.483	359.494	358.399
67.5	331.733	328.947	335.216	360.091	355.713	332.629	330.937
70.0	304.570	301.386	308.649	333.425	330.639	306.361	305.465
72.5	277.406	274.421	282.779	306.560	302.580	279.695	278.401
75.0	251.636	247.656	256.511	279.894	276.013	252.233	250.939
77.5	222.383	219.199	229.049	252.730	248.651	224.174	221.786
80.0	194.523	192.334	201.786	223.577	220.990	197.508	194.324

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82.5	164.872	163.976	174.125	195.418	191.239	170.145	166.762
85.0	132.534	131.141	143.977	162.484	158.902	139.002	135.221
87.5	102.187	99.102	109.649	128.654	124.574	105.570	102.883
90.0	79.401	79.103	86.466	100.595	99.301	81.789	81.690
92.5	75.521	75.421	80.098	93.331	90.943	76.814	74.327
95.0	71.740	72.735	75.322	87.461	85.272	72.934	72.138
97.5	72.436	70.048	75.521	85.073	81.590	69.451	70.048
100.0	73.033	72.237	75.322	83.879	80.894	67.262	70.247
102.5	71.740	73.133	72.038	82.386	78.605	66.964	68.158
105.0	68.854	68.755	68.854	76.018	72.237	66.267	69.053
107.5	64.178	64.576	64.078	70.247	68.954	61.989	68.655
110.0	57.014	59.999	58.009	65.670	65.372	56.914	61.889
112.5	53.830	55.223	54.626	62.287	61.093	53.432	58.904
115.0	49.651	51.939	50.646	57.810	58.904	51.243	53.332
117.5	46.964	48.755	46.367	54.626	54.228	49.452	52.437
120.0	45.870	46.566	43.979	52.536	52.437	48.059	49.054
122.5	43.979	44.576	41.492	49.750	49.850	45.074	48.059
125.0	41.691	41.392	40.596	47.462	48.158	42.387	44.377
127.5	37.910	38.905	38.109	44.178	45.273	40.099	42.686
130.0	35.024	38.606	35.920	41.989	43.183	36.318	41.492
132.5	34.129	36.318	34.825	39.203	40.298	33.830	36.019
135.0	31.840	32.935	33.432	37.512	37.810	31.542	33.034
137.5	30.149	30.248	30.945	34.925	35.522	30.348	27.263
140.0	28.656	29.154	29.850	32.437	33.830	28.557	24.676
142.5	26.467	25.970	26.567	31.343	31.641	26.169	23.582
145.0	25.273	24.179	25.472	28.855	29.353	23.582	20.796
147.5	22.686	21.094	23.880	27.860	26.965	23.084	18.408
150.0	21.890	19.701	22.288	24.975	25.074	21.094	17.114
152.5	19.900	17.413	20.199	22.786	23.980	19.005	16.517
155.0	17.413	16.418	16.617	21.194	20.995	17.413	13.234
157.5	17.512	14.229	16.219	19.801	20.199	15.821	13.134
160.0	14.129	12.836	14.726	18.408	18.209	15.124	11.244
162.5	12.139	10.945	12.935	16.219	15.721	13.632	10.348
165.0	11.940	9.751	11.542	13.532	14.030	11.841	8.557
167.5	10.448	8.557	9.055	12.239	11.443	11.244	9.055
170.0	8.557	7.164	8.060	9.950	8.955	8.756	8.657
172.5	6.965	6.567	6.766	7.662	7.463	7.264	8.060
175.0	6.070	5.473	6.070	6.070	5.771	6.169	5.473
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	307.17	N.A.	10.20
0-30	647.45	N.A.	21.50
0-40	1054.68	N.A.	35.00
0-60	1904.29	N.A.	63.10
0-80	2545.06	N.A.	84.40
0-90	2704.11	N.A.	89.60
10-90	2624.42	N.A.	87.00
20-40	747.51	N.A.	24.80
20-50	1179.52	N.A.	39.10
40-70	1214.22	N.A.	40.20
60-80	640.77	N.A.	21.20
70-80	276.16	N.A.	9.20
80-90	159.05	N.A.	5.30
90-110	161.50	N.A.	5.40
90-120	215.72	N.A.	7.20
90-130	255.53	N.A.	8.50
90-150	299.71	N.A.	9.90
90-180	312.78	N.A.	10.40
110-180	151.27	N.A.	5.00
0-180	3016.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.69
10-20	227.48
20-30	340.28
30-40	407.23
40-50	432.00
50-60	417.60
60-70	364.61
70-80	276.16
80-90	159.05
90-100	87.37
100-110	74.14
110-120	54.21
120-130	39.82
130-140	27.28
140-150	16.90
150-160	8.92
160-170	3.55
170-180	0.59

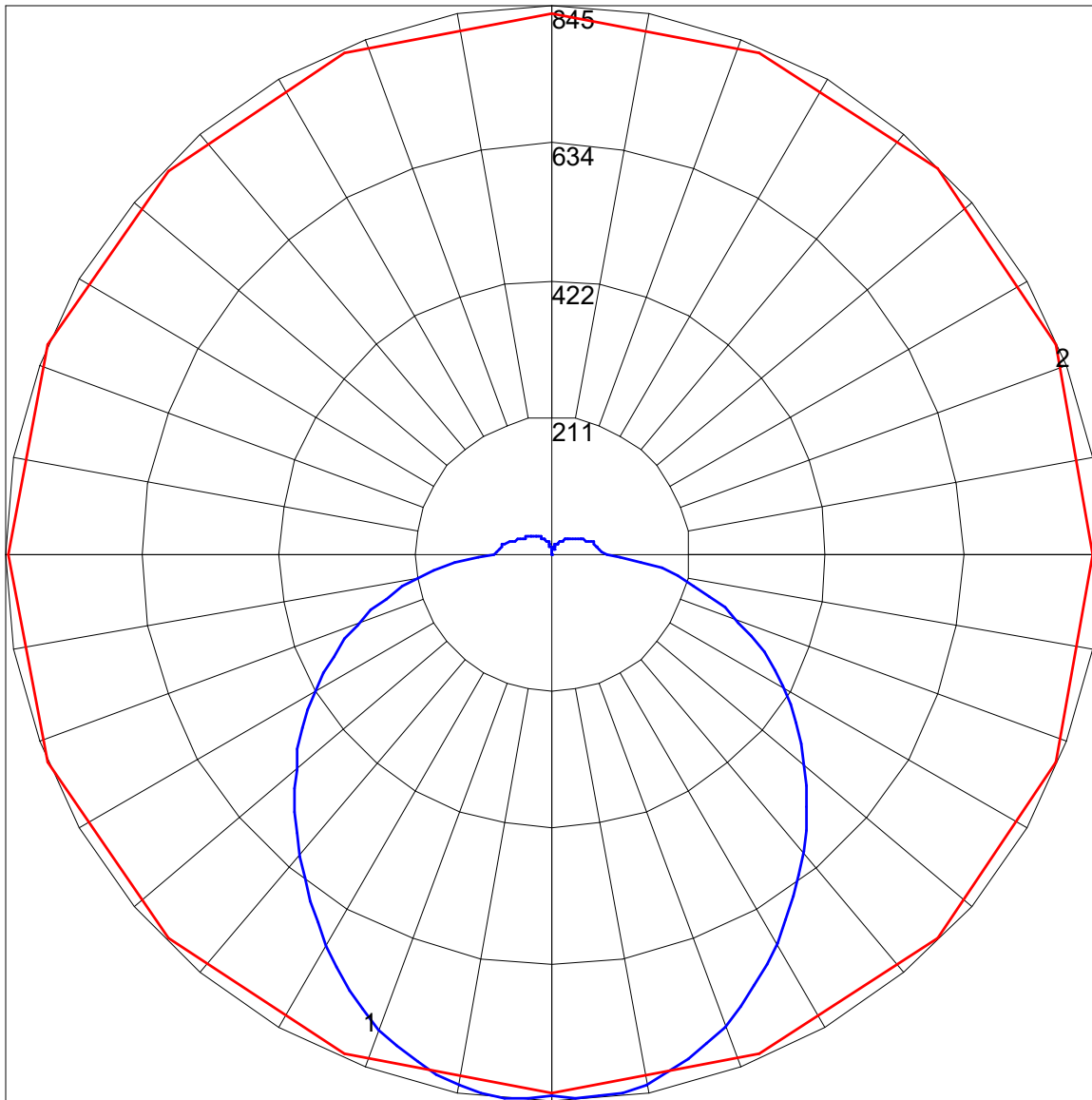
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 844.855 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.)