



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BTRI-44-LED35-LO
 [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	5834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	45
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	21901	13905	11879
55	22144	12483	10226
65	23158	11004	8610
75	25653	9247	6880
85	36295	6907	4766

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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	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700
2.5	1556.475	1548.300	1553.025	1556.175	1551.075	1554.750	1550.700	1547.625	1555.575	1547.625
5.0	1551.675	1545.900	1554.375	1556.100	1549.725	1550.400	1546.050	1545.750	1555.725	1545.750
7.5	1546.275	1540.125	1548.150	1553.100	1544.400	1542.075	1538.625	1540.500	1549.125	1540.500
10.0	1537.500	1527.825	1539.375	1544.175	1533.975	1530.825	1526.475	1529.475	1538.100	1529.475
12.5	1523.025	1511.475	1525.575	1530.375	1517.700	1515.600	1510.575	1512.750	1523.400	1512.750
15.0	1503.675	1491.975	1505.175	1509.900	1497.225	1495.650	1490.175	1493.700	1504.050	1493.700
17.5	1479.825	1466.325	1481.325	1486.125	1471.500	1471.425	1466.550	1468.200	1479.975	1468.200
20.0	1453.275	1437.750	1452.825	1458.000	1442.775	1444.500	1437.750	1439.400	1453.350	1439.400
22.5	1421.400	1404.600	1421.700	1426.650	1410.150	1412.325	1404.975	1408.500	1419.075	1408.500
25.0	1387.650	1369.425	1388.025	1392.825	1374.975	1377.975	1369.500	1373.025	1384.950	1373.025
27.5	1351.650	1332.150	1351.200	1356.375	1336.650	1341.825	1332.825	1336.125	1347.450	1336.125
30.0	1310.175	1294.275	1312.800	1318.500	1297.500	1303.575	1294.125	1298.025	1309.350	1298.025
32.5	1274.850	1254.450	1274.700	1279.725	1256.325	1265.025	1254.600	1258.425	1270.275	1258.425
35.0	1236.450	1213.125	1235.475	1239.675	1214.550	1223.175	1213.650	1217.850	1231.125	1217.850
37.5	1193.775	1171.275	1194.975	1199.400	1173.450	1182.150	1172.100	1176.975	1190.850	1176.975
40.0	1149.225	1130.100	1153.575	1159.950	1129.950	1139.325	1129.575	1136.850	1152.450	1136.850
42.5	1105.200	1088.550	1114.800	1119.525	1089.900	1096.575	1088.925	1096.500	1113.525	1096.500
45.0	1065.075	1046.175	1074.300	1080.750	1047.600	1053.525	1045.950	1056.975	1074.900	1056.975
47.5	1023.600	1003.425	1035.825	1041.375	1006.800	1009.650	1004.250	1016.775	1036.950	1016.775
50.0	978.300	961.050	994.725	1001.325	965.100	965.625	960.675	976.875	998.025	976.875
52.5	930.750	916.950	953.850	961.500	921.375	921.975	917.100	936.450	957.825	936.450
55.0	885.825	874.950	913.425	920.250	877.650	876.300	874.350	895.125	918.225	895.125
57.5	842.025	830.250	871.725	878.475	833.700	831.450	829.425	852.075	877.725	852.075
60.0	796.650	785.175	827.550	835.650	789.375	784.875	783.675	810.000	835.875	810.000
62.5	747.375	739.725	782.700	790.125	744.075	737.925	737.475	766.125	791.175	766.125
65.0	698.400	691.800	735.675	744.150	696.150	689.550	690.525	719.850	744.525	719.850
67.5	647.700	642.525	689.025	697.200	649.500	641.775	642.225	672.375	697.650	672.375
70.0	599.025	592.875	640.800	648.450	601.950	592.125	593.100	624.150	650.250	624.150
72.5	549.525	543.375	589.575	599.625	552.975	543.525	544.275	575.775	602.250	575.775
75.0	497.625	494.700	541.050	550.500	505.200	493.500	494.925	526.950	552.825	526.950
77.5	447.300	444.450	490.800	499.875	455.550	442.725	446.100	476.850	501.900	476.850
80.0	396.525	393.300	439.200	447.525	404.625	393.075	396.150	426.000	449.025	426.000
82.5	345.825	343.350	387.300	395.325	354.600	342.600	345.075	376.800	398.925	376.800
85.0	292.125	291.525	334.200	340.800	303.975	291.450	294.300	326.625	346.950	326.625
87.5	221.625	222.975	262.725	267.525	239.025	221.850	230.550	263.325	278.775	263.325
90.0	144.075	146.550	177.600	181.200	154.200	143.700	149.700	176.925	188.700	176.925
92.5	136.875	140.700	166.050	168.225	144.150	135.450	138.900	162.675	175.425	162.675
95.0	158.400	161.025	178.725	176.925	161.250	153.300	154.275	174.150	186.375	174.150
97.5	158.100	152.400	171.225	175.350	163.050	160.950	161.700	172.425	179.550	172.425
100.0	146.175	142.950	165.375	168.150	155.325	155.250	154.875	165.075	167.100	165.075
102.5	143.400	138.675	159.975	163.200	147.900	147.450	146.850	158.175	157.425	158.175
105.0	136.575	132.225	152.400	161.700	140.850	141.375	140.100	149.700	152.925	149.700
107.5	130.200	124.500	144.075	157.575	133.350	135.150	133.125	141.525	153.300	141.525
110.0	124.350	114.300	137.400	152.850	126.825	128.025	124.950	128.550	145.725	128.550
112.5	115.800	103.800	132.900	147.900	121.425	122.025	113.400	120.600	140.100	120.600
115.0	110.100	98.925	127.200	141.225	116.400	116.475	100.350	115.575	135.075	115.575
117.5	92.700	94.650	122.625	134.700	112.050	110.400	92.775	111.600	129.525	111.600
120.0	81.150	92.250	118.500	127.500	106.650	98.325	89.550	106.500	124.875	106.500
122.5	75.450	87.675	113.175	122.175	100.650	85.500	86.175	102.975	119.400	102.975
125.0	71.400	84.300	109.275	115.800	92.625	77.100	81.450	100.050	118.275	100.050
127.5	67.500	81.300	105.975	110.925	86.175	72.525	77.475	97.800	115.650	97.800
130.0	63.900	76.950	101.700	105.450	79.500	67.650	73.725	96.600	112.800	96.600
132.5	60.525	74.925	97.800	100.425	74.175	63.900	70.950	93.300	109.425	93.300

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CANDELA TABULATION - (Cont.)

135.0	56.025	73.275	93.675	96.375	68.325	59.175	68.700	90.225	104.550	90.225
137.5	54.075	71.700	90.750	90.900	64.725	54.225	68.925	86.175	97.950	86.175
140.0	51.150	69.300	86.250	85.350	59.325	49.650	68.925	82.950	92.850	82.950
142.5	48.075	66.000	81.075	79.950	55.875	46.425	67.425	79.575	86.625	79.575
145.0	51.375	63.825	75.000	73.275	52.650	45.375	65.325	75.675	80.175	75.675
147.5	59.850	62.625	69.750	67.950	48.975	44.325	62.550	70.425	73.650	70.425
150.0	56.550	57.750	63.675	63.375	46.200	44.925	58.200	63.600	67.350	63.600
152.5	51.750	53.025	58.275	56.550	41.250	44.175	52.875	58.425	61.650	58.425
155.0	46.575	47.250	52.950	51.150	37.275	44.550	47.625	52.200	55.800	52.200
157.5	42.675	42.225	47.475	46.200	33.525	40.500	42.075	47.100	49.275	47.100
160.0	37.500	37.650	41.550	40.575	30.750	35.775	38.025	42.675	43.125	42.675
162.5	32.175	32.625	36.225	34.650	26.475	31.275	33.150	36.300	38.175	36.300
165.0	28.050	28.650	30.900	30.450	24.225	27.750	28.800	31.575	31.425	31.575
167.5	22.650	23.925	25.500	25.425	20.250	21.375	23.100	26.325	27.525	26.325
170.0	19.500	19.650	21.225	21.225	17.775	19.125	19.425	21.900	21.225	21.900
172.5	14.625	15.675	17.325	16.425	13.725	15.300	16.575	17.850	17.400	17.850
175.0	12.750	12.600	12.750	12.375	11.925	12.750	12.525	13.650	13.200	13.650
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. 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	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700	1553.700
2.5	1550.700	1554.750	1551.075	1556.175	1553.025	1548.300	1556.475
5.0	1546.050	1550.400	1549.725	1556.100	1554.375	1545.900	1551.675
7.5	1538.625	1542.075	1544.400	1553.100	1548.150	1540.125	1546.275
10.0	1526.475	1530.825	1533.975	1544.175	1539.375	1527.825	1537.500
12.5	1510.575	1515.600	1517.700	1530.375	1525.575	1511.475	1523.025
15.0	1490.175	1495.650	1497.225	1509.900	1505.175	1491.975	1503.675
17.5	1466.550	1471.425	1471.500	1486.125	1481.325	1466.325	1479.825
20.0	1437.750	1444.500	1442.775	1458.000	1452.825	1437.750	1453.275
22.5	1404.975	1412.325	1410.150	1426.650	1421.700	1404.600	1421.400
25.0	1369.500	1377.975	1374.975	1392.825	1388.025	1369.425	1387.650
27.5	1332.825	1341.825	1336.650	1356.375	1351.200	1332.150	1351.650
30.0	1294.125	1303.575	1297.500	1318.500	1312.800	1294.275	1310.175
32.5	1254.600	1265.025	1256.325	1279.725	1274.700	1254.450	1274.850
35.0	1213.650	1223.175	1214.550	1239.675	1235.475	1213.125	1236.450
37.5	1172.100	1182.150	1173.450	1199.400	1194.975	1171.275	1193.775
40.0	1129.575	1139.325	1129.950	1159.950	1153.575	1130.100	1149.225
42.5	1088.925	1096.575	1089.900	1119.525	1114.800	1088.550	1105.200
45.0	1045.950	1053.525	1047.600	1080.750	1074.300	1046.175	1065.075
47.5	1004.250	1009.650	1006.800	1041.375	1035.825	1003.425	1023.600
50.0	960.675	965.625	965.100	1001.325	994.725	961.050	978.300
52.5	917.100	921.975	921.375	961.500	953.850	916.950	930.750
55.0	874.350	876.300	877.650	920.250	913.425	874.950	885.825
57.5	829.425	831.450	833.700	878.475	871.725	830.250	842.025
60.0	783.675	784.875	789.375	835.650	827.550	785.175	796.650
62.5	737.475	737.925	744.075	790.125	782.700	739.725	747.375
65.0	690.525	689.550	696.150	744.150	735.675	691.800	698.400
67.5	642.225	641.775	649.500	697.200	689.025	642.525	647.700
70.0	593.100	592.125	601.950	648.450	640.800	592.875	599.025
72.5	544.275	543.525	552.975	599.625	589.575	543.375	549.525
75.0	494.925	493.500	505.200	550.500	541.050	494.700	497.625
77.5	446.100	442.725	455.550	499.875	490.800	444.450	447.300
80.0	396.150	393.075	404.625	447.525	439.200	393.300	396.525

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CANDELA TABULATION - (Cont.)

82.5	345.075	342.600	354.600	395.325	387.300	343.350	345.825
85.0	294.300	291.450	303.975	340.800	334.200	291.525	292.125
87.5	230.550	221.850	239.025	267.525	262.725	222.975	221.625
90.0	149.700	143.700	154.200	181.200	177.600	146.550	144.075
92.5	138.900	135.450	144.150	168.225	166.050	140.700	136.875
95.0	154.275	153.300	161.250	176.925	178.725	161.025	158.400
97.5	161.700	160.950	163.050	175.350	171.225	152.400	158.100
100.0	154.875	155.250	155.325	168.150	165.375	142.950	146.175
102.5	146.850	147.450	147.900	163.200	159.975	138.675	143.400
105.0	140.100	141.375	140.850	161.700	152.400	132.225	136.575
107.5	133.125	135.150	133.350	157.575	144.075	124.500	130.200
110.0	124.950	128.025	126.825	152.850	137.400	114.300	124.350
112.5	113.400	122.025	121.425	147.900	132.900	103.800	115.800
115.0	100.350	116.475	116.400	141.225	127.200	98.925	110.100
117.5	92.775	110.400	112.050	134.700	122.625	94.650	92.700
120.0	89.550	98.325	106.650	127.500	118.500	92.250	81.150
122.5	86.175	85.500	100.650	122.175	113.175	87.675	75.450
125.0	81.450	77.100	92.625	115.800	109.275	84.300	71.400
127.5	77.475	72.525	86.175	110.925	105.975	81.300	67.500
130.0	73.725	67.650	79.500	105.450	101.700	76.950	63.900
132.5	70.950	63.900	74.175	100.425	97.800	74.925	60.525
135.0	68.700	59.175	68.325	96.375	93.675	73.275	56.025
137.5	68.925	54.225	64.725	90.900	90.750	71.700	54.075
140.0	68.925	49.650	59.325	85.350	86.250	69.300	51.150
142.5	67.425	46.425	55.875	79.950	81.075	66.000	48.075
145.0	65.325	45.375	52.650	73.275	75.000	63.825	51.375
147.5	62.550	44.325	48.975	67.950	69.750	62.625	59.850
150.0	58.200	44.925	46.200	63.375	63.675	57.750	56.550
152.5	52.875	44.175	41.250	56.550	58.275	53.025	51.750
155.0	47.625	44.550	37.275	51.150	52.950	47.250	46.575
157.5	42.075	40.500	33.525	46.200	47.475	42.225	42.675
160.0	38.025	35.775	30.750	40.575	41.550	37.650	37.500
162.5	33.150	31.275	26.475	34.650	36.225	32.625	32.175
165.0	28.800	27.750	24.225	30.450	30.900	28.650	28.050
167.5	23.100	21.375	20.250	25.425	25.500	23.925	22.650
170.0	19.425	19.125	17.775	21.225	21.225	19.650	19.500
172.5	16.575	15.300	13.725	16.425	17.325	15.675	14.625
175.0	12.525	12.750	11.925	12.375	12.750	12.600	12.750
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	570.01	N.A.	9.80
0-30	1205.6	N.A.	20.70
0-40	1972.16	N.A.	33.80
0-60	3588.89	N.A.	61.50
0-80	4838.04	N.A.	82.90
0-90	5168.03	N.A.	88.60
10-90	5020.57	N.A.	86.10
20-40	1402.15	N.A.	24.00
20-50	2220.83	N.A.	38.10
40-70	2320.89	N.A.	39.80
60-80	1249.15	N.A.	21.40
70-80	544.99	N.A.	9.30
80-90	329.98	N.A.	5.70
90-110	329.17	N.A.	5.60
90-120	446.08	N.A.	7.60
90-130	531.50	N.A.	9.10
90-150	633.60	N.A.	10.90
90-180	665.79	N.A.	11.40
110-180	336.61	N.A.	5.80
0-180	5833.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.46
10-20	422.55
20-30	635.60
30-40	766.55
40-50	818.68
50-60	798.05
60-70	704.16
70-80	544.99
80-90	329.98
90-100	175.59
100-110	153.58
110-120	116.91
120-130	85.42
130-140	61.28
140-150	40.82
150-160	22.45
160-170	8.44
170-180	1.30

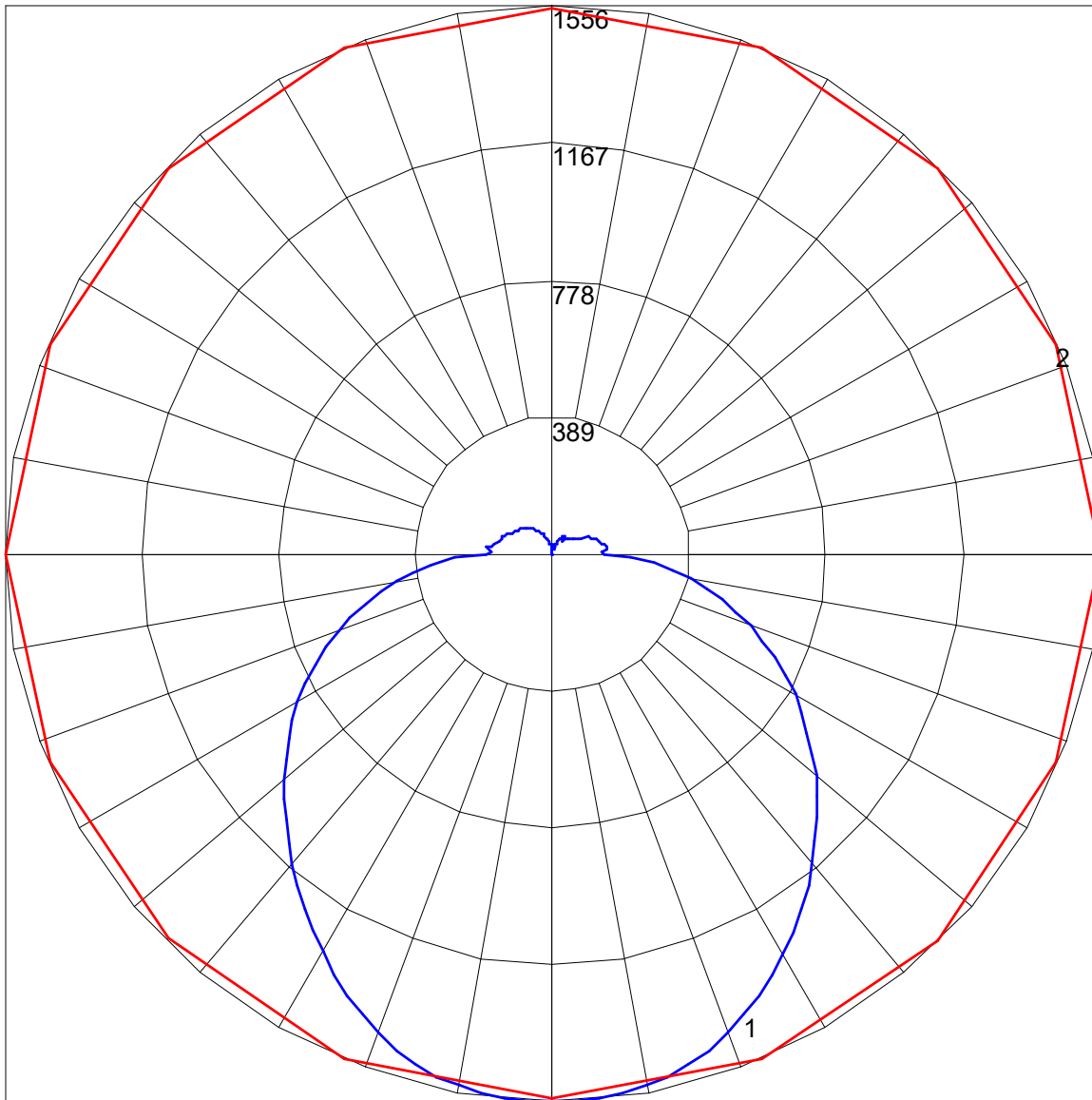
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PHOTOMETRIC FILENAME : BTRI-PRO-44-LED35-LO.IES

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 = 1556.475 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.)