



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BTRI-44-LED35-LO  
 [TESTLAB] INTERTEK  
 [ISSUE DATE] 8-9-18  
 [MANUFAC] PRUDENTIAL  
 [\_TOTALLUMINAIRELUMENS] 7777.6

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6067
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	50
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	22777	14461	12355
55	23030	12983	10635
65	24084	11444	8954
75	26679	9617	7155
85	37747	7183	4957

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-44-LED35-LO.IES**

**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>
<b>0.0</b>	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848
<b>2.5</b>	1618.734	1610.232	1615.146	1618.422	1613.118	1616.940	1612.728	1609.530	1617.798	1609.530
<b>5.0</b>	1613.742	1607.736	1616.550	1618.344	1611.714	1612.416	1607.892	1607.580	1617.954	1607.580
<b>7.5</b>	1608.126	1601.730	1610.076	1615.224	1606.176	1603.758	1600.170	1602.120	1611.090	1602.120
<b>10.0</b>	1599.000	1588.938	1600.950	1605.942	1595.334	1592.058	1587.534	1590.654	1599.624	1590.654
<b>12.5</b>	1583.946	1571.934	1586.598	1591.590	1578.408	1576.224	1570.998	1573.260	1584.336	1573.260
<b>15.0</b>	1563.822	1551.654	1565.382	1570.296	1557.114	1555.476	1549.782	1553.448	1564.212	1553.448
<b>17.5</b>	1539.018	1524.978	1540.578	1545.570	1530.360	1530.282	1525.212	1526.928	1539.174	1526.928
<b>20.0</b>	1511.406	1495.260	1510.938	1516.320	1500.486	1502.280	1495.260	1496.976	1511.484	1496.976
<b>22.5</b>	1478.256	1460.784	1478.568	1483.716	1466.556	1468.818	1461.174	1464.840	1475.838	1464.840
<b>25.0</b>	1443.156	1424.202	1443.546	1448.538	1429.974	1433.094	1424.280	1427.946	1440.348	1427.946
<b>27.5</b>	1405.716	1385.436	1405.248	1410.630	1390.116	1395.498	1386.138	1389.570	1401.348	1389.570
<b>30.0</b>	1362.582	1346.046	1365.312	1371.240	1349.400	1355.718	1345.890	1349.946	1361.724	1349.946
<b>32.5</b>	1325.844	1304.628	1325.688	1330.914	1306.578	1315.626	1304.784	1308.762	1321.086	1308.762
<b>35.0</b>	1285.908	1261.650	1284.894	1289.262	1263.132	1272.102	1262.196	1266.564	1280.370	1266.564
<b>37.5</b>	1241.526	1218.126	1242.774	1247.376	1220.388	1229.436	1218.984	1224.054	1238.484	1224.054
<b>40.0</b>	1195.194	1175.304	1199.718	1206.348	1175.148	1184.898	1174.758	1182.324	1198.548	1182.324
<b>42.5</b>	1149.408	1132.092	1159.392	1164.306	1133.496	1140.438	1132.482	1140.360	1158.066	1140.360
<b>45.0</b>	1107.678	1088.022	1117.272	1123.980	1089.504	1095.666	1087.788	1099.254	1117.896	1099.254
<b>47.5</b>	1064.544	1043.562	1077.258	1083.030	1047.072	1050.036	1044.420	1057.446	1078.428	1057.446
<b>50.0</b>	1017.432	999.492	1034.514	1041.378	1003.704	1004.250	999.102	1015.950	1037.946	1015.950
<b>52.5</b>	967.980	953.628	992.004	999.960	958.230	958.854	953.784	973.908	996.138	973.908
<b>55.0</b>	921.258	909.948	949.962	957.060	912.756	911.352	909.324	930.930	954.954	930.930
<b>57.5</b>	875.706	863.460	906.594	913.614	867.048	864.708	862.602	886.158	912.834	886.158
<b>60.0</b>	828.516	816.582	860.652	869.076	820.950	816.270	815.022	842.400	869.310	842.400
<b>62.5</b>	777.270	769.314	814.008	821.730	773.838	767.442	766.974	796.770	822.822	796.770
<b>65.0</b>	726.336	719.472	765.102	773.916	723.996	717.132	718.146	748.644	774.306	748.644
<b>67.5</b>	673.608	668.226	716.586	725.088	675.480	667.446	667.914	699.270	725.556	699.270
<b>70.0</b>	622.986	616.590	666.432	674.388	626.028	615.810	616.824	649.116	676.260	649.116
<b>72.5</b>	571.506	565.110	613.158	623.610	575.094	565.266	566.046	598.806	626.340	598.806
<b>75.0</b>	517.530	514.488	562.692	572.520	525.408	513.240	514.722	548.028	574.938	548.028
<b>77.5</b>	465.192	462.228	510.432	519.870	473.772	460.434	463.944	495.924	521.976	495.924
<b>80.0</b>	412.386	409.032	456.768	465.426	420.810	408.798	411.996	443.040	466.986	443.040
<b>82.5</b>	359.658	357.084	402.792	411.138	368.784	356.304	358.878	391.872	414.882	391.872
<b>85.0</b>	303.810	303.186	347.568	354.432	316.134	303.108	306.072	339.690	360.828	339.690
<b>87.5</b>	230.490	231.894	273.234	278.226	248.586	230.724	239.772	273.858	289.926	273.858
<b>90.0</b>	149.838	152.412	184.704	188.448	160.368	149.448	155.688	184.002	196.248	184.002
<b>92.5</b>	142.350	146.328	172.692	174.954	149.916	140.868	144.456	169.182	182.442	169.182
<b>95.0</b>	164.736	167.466	185.874	184.002	167.700	159.432	160.446	181.116	193.830	181.116
<b>97.5</b>	164.424	158.496	178.074	182.364	169.572	167.388	168.168	179.322	186.732	179.322
<b>100.0</b>	152.022	148.668	171.990	174.876	161.538	161.460	161.070	171.678	173.784	171.678
<b>102.5</b>	149.136	144.222	166.374	169.728	153.816	153.348	152.724	164.502	163.722	164.502
<b>105.0</b>	142.038	137.514	158.496	168.168	146.484	147.030	145.704	155.688	159.042	155.688
<b>107.5</b>	135.408	129.480	149.838	163.878	138.684	140.556	138.450	147.186	159.432	147.186
<b>110.0</b>	129.324	118.872	142.896	158.964	131.898	133.146	129.948	133.692	151.554	133.692
<b>112.5</b>	120.432	107.952	138.216	153.816	126.282	126.906	117.936	125.424	145.704	125.424
<b>115.0</b>	114.504	102.882	132.288	146.874	121.056	121.134	104.364	120.198	140.478	120.198
<b>117.5</b>	96.408	98.436	127.530	140.088	116.532	114.816	96.486	116.064	134.706	116.064
<b>120.0</b>	84.396	95.940	123.240	132.600	110.916	102.258	93.132	110.760	129.870	110.760
<b>122.5</b>	78.468	91.182	117.702	127.062	104.676	88.920	89.622	107.094	124.176	107.094
<b>125.0</b>	74.256	87.672	113.646	120.432	96.330	80.184	84.708	104.052	123.006	104.052
<b>127.5</b>	70.200	84.552	110.214	115.362	89.622	75.426	80.574	101.712	120.276	101.712
<b>130.0</b>	66.456	80.028	105.768	109.668	82.680	70.356	76.674	100.464	117.312	100.464
<b>132.5</b>	62.946	77.922	101.712	104.442	77.142	66.456	73.788	97.032	113.802	97.032

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-44-LED35-LO.IES**

**CANDELA TABULATION - (Cont.)**

135.0	58.266	76.206	97.422	100.230	71.058	61.542	71.448	93.834	108.732	93.834
137.5	56.238	74.568	94.380	94.536	67.314	56.394	71.682	89.622	101.868	89.622
140.0	53.196	72.072	89.700	88.764	61.698	51.636	71.682	86.268	96.564	86.268
142.5	49.998	68.640	84.318	83.148	58.110	48.282	70.122	82.758	90.090	82.758
145.0	53.430	66.378	78.000	76.206	54.756	47.190	67.938	78.702	83.382	78.702
147.5	62.244	65.130	72.540	70.668	50.934	46.098	65.052	73.242	76.596	73.242
150.0	58.812	60.060	66.222	65.910	48.048	46.722	60.528	66.144	70.044	66.144
152.5	53.820	55.146	60.606	58.812	42.900	45.942	54.990	60.762	64.116	60.762
155.0	48.438	49.140	55.068	53.196	38.766	46.332	49.530	54.288	58.032	54.288
157.5	44.382	43.914	49.374	48.048	34.866	42.120	43.758	48.984	51.246	48.984
160.0	39.000	39.156	43.212	42.198	31.980	37.206	39.546	44.382	44.850	44.382
162.5	33.462	33.930	37.674	36.036	27.534	32.526	34.476	37.752	39.702	37.752
165.0	29.172	29.796	32.136	31.668	25.194	28.860	29.952	32.838	32.682	32.838
167.5	23.556	24.882	26.520	26.442	21.060	22.230	24.024	27.378	28.626	27.378
170.0	20.280	20.436	22.074	22.074	18.486	19.890	20.202	22.776	22.074	22.776
172.5	15.210	16.302	18.018	17.082	14.274	15.912	17.238	18.564	18.096	18.564
175.0	13.260	13.104	13.260	12.870	12.402	13.260	13.026	14.196	13.728	14.196
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	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848	1615.848
2.5	1612.728	1616.940	1613.118	1618.422	1615.146	1610.232	1618.734
5.0	1607.892	1612.416	1611.714	1618.344	1616.550	1607.736	1613.742
7.5	1600.170	1603.758	1606.176	1615.224	1610.076	1601.730	1608.126
10.0	1587.534	1592.058	1595.334	1605.942	1600.950	1588.938	1599.000
12.5	1570.998	1576.224	1578.408	1591.590	1586.598	1571.934	1583.946
15.0	1549.782	1555.476	1557.114	1570.296	1565.382	1551.654	1563.822
17.5	1525.212	1530.282	1530.360	1545.570	1540.578	1524.978	1539.018
20.0	1495.260	1502.280	1500.486	1516.320	1510.938	1495.260	1511.406
22.5	1461.174	1468.818	1466.556	1483.716	1478.568	1460.784	1478.256
25.0	1424.280	1433.094	1429.974	1448.538	1443.546	1424.202	1443.156
27.5	1386.138	1395.498	1390.116	1410.630	1405.248	1385.436	1405.716
30.0	1345.890	1355.718	1349.400	1371.240	1365.312	1346.046	1362.582
32.5	1304.784	1315.626	1306.578	1330.914	1325.688	1304.628	1325.844
35.0	1262.196	1272.102	1263.132	1289.262	1284.894	1261.650	1285.908
37.5	1218.984	1229.436	1220.388	1247.376	1242.774	1218.126	1241.526
40.0	1174.758	1184.898	1175.148	1206.348	1199.718	1175.304	1195.194
42.5	1132.482	1140.438	1133.496	1164.306	1159.392	1132.092	1149.408
45.0	1087.788	1095.666	1089.504	1123.980	1117.272	1088.022	1107.678
47.5	1044.420	1050.036	1047.072	1083.030	1077.258	1043.562	1064.544
50.0	999.102	1004.250	1003.704	1041.378	1034.514	999.492	1017.432
52.5	953.784	958.854	958.230	999.960	992.004	953.628	967.980
55.0	909.324	911.352	912.756	957.060	949.962	909.948	921.258
57.5	862.602	864.708	867.048	913.614	906.594	863.460	875.706
60.0	815.022	816.270	820.950	869.076	860.652	816.582	828.516
62.5	766.974	767.442	773.838	821.730	814.008	769.314	777.270
65.0	718.146	717.132	723.996	773.916	765.102	719.472	726.336
67.5	667.914	667.446	675.480	725.088	716.586	668.226	673.608
70.0	616.824	615.810	626.028	674.388	666.432	616.590	622.986
72.5	566.046	565.266	575.094	623.610	613.158	565.110	571.506
75.0	514.722	513.240	525.408	572.520	562.692	514.488	517.530
77.5	463.944	460.434	473.772	519.870	510.432	462.228	465.192
80.0	411.996	408.798	420.810	465.426	456.768	409.032	412.386

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-44-LED35-LO.IES**

**CANDELA TABULATION - (Cont.)**

82.5	358.878	356.304	368.784	411.138	402.792	357.084	359.658
85.0	306.072	303.108	316.134	354.432	347.568	303.186	303.810
87.5	239.772	230.724	248.586	278.226	273.234	231.894	230.490
90.0	155.688	149.448	160.368	188.448	184.704	152.412	149.838
92.5	144.456	140.868	149.916	174.954	172.692	146.328	142.350
95.0	160.446	159.432	167.700	184.002	185.874	167.466	164.736
97.5	168.168	167.388	169.572	182.364	178.074	158.496	164.424
100.0	161.070	161.460	161.538	174.876	171.990	148.668	152.022
102.5	152.724	153.348	153.816	169.728	166.374	144.222	149.136
105.0	145.704	147.030	146.484	168.168	158.496	137.514	142.038
107.5	138.450	140.556	138.684	163.878	149.838	129.480	135.408
110.0	129.948	133.146	131.898	158.964	142.896	118.872	129.324
112.5	117.936	126.906	126.282	153.816	138.216	107.952	120.432
115.0	104.364	121.134	121.056	146.874	132.288	102.882	114.504
117.5	96.486	114.816	116.532	140.088	127.530	98.436	96.408
120.0	93.132	102.258	110.916	132.600	123.240	95.940	84.396
122.5	89.622	88.920	104.676	127.062	117.702	91.182	78.468
125.0	84.708	80.184	96.330	120.432	113.646	87.672	74.256
127.5	80.574	75.426	89.622	115.362	110.214	84.552	70.200
130.0	76.674	70.356	82.680	109.668	105.768	80.028	66.456
132.5	73.788	66.456	77.142	104.442	101.712	77.922	62.946
135.0	71.448	61.542	71.058	100.230	97.422	76.206	58.266
137.5	71.682	56.394	67.314	94.536	94.380	74.568	56.238
140.0	71.682	51.636	61.698	88.764	89.700	72.072	53.196
142.5	70.122	48.282	58.110	83.148	84.318	68.640	49.998
145.0	67.938	47.190	54.756	76.206	78.000	66.378	53.430
147.5	65.052	46.098	50.934	70.668	72.540	65.130	62.244
150.0	60.528	46.722	48.048	65.910	66.222	60.060	58.812
152.5	54.990	45.942	42.900	58.812	60.606	55.146	53.820
155.0	49.530	46.332	38.766	53.196	55.068	49.140	48.438
157.5	43.758	42.120	34.866	48.048	49.374	43.914	44.382
160.0	39.546	37.206	31.980	42.198	43.212	39.156	39.000
162.5	34.476	32.526	27.534	36.036	37.674	33.930	33.462
165.0	29.952	28.860	25.194	31.668	32.136	29.796	29.172
167.5	24.024	22.230	21.060	26.442	26.520	24.882	23.556
170.0	20.202	19.890	18.486	22.074	22.074	20.436	20.280
172.5	17.238	15.912	14.274	17.082	18.018	16.302	15.210
175.0	13.026	13.260	12.402	12.870	13.260	13.104	13.260
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-44-LED35-LO.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	592.81	N.A.	9.80
0-30	1253.83	N.A.	20.70
0-40	2051.04	N.A.	33.80
0-60	3732.45	N.A.	61.50
0-80	5031.56	N.A.	82.90
0-90	5374.75	N.A.	88.60
10-90	5221.39	N.A.	86.10
20-40	1458.24	N.A.	24.00
20-50	2309.67	N.A.	38.10
40-70	2413.73	N.A.	39.80
60-80	1299.12	N.A.	21.40
70-80	566.79	N.A.	9.30
80-90	343.18	N.A.	5.70
90-110	342.34	N.A.	5.60
90-120	463.93	N.A.	7.60
90-130	552.76	N.A.	9.10
90-150	658.94	N.A.	10.90
90-180	692.42	N.A.	11.40
110-180	350.08	N.A.	5.80
0-180	6067.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	153.36
10-20	439.45
20-30	661.02
30-40	797.22
40-50	851.43
50-60	829.97
60-70	732.32
70-80	566.79
80-90	343.18
90-100	182.61
100-110	159.73
110-120	121.59
120-130	88.84
130-140	63.73
140-150	42.45
150-160	23.34
160-170	8.78
170-180	1.35

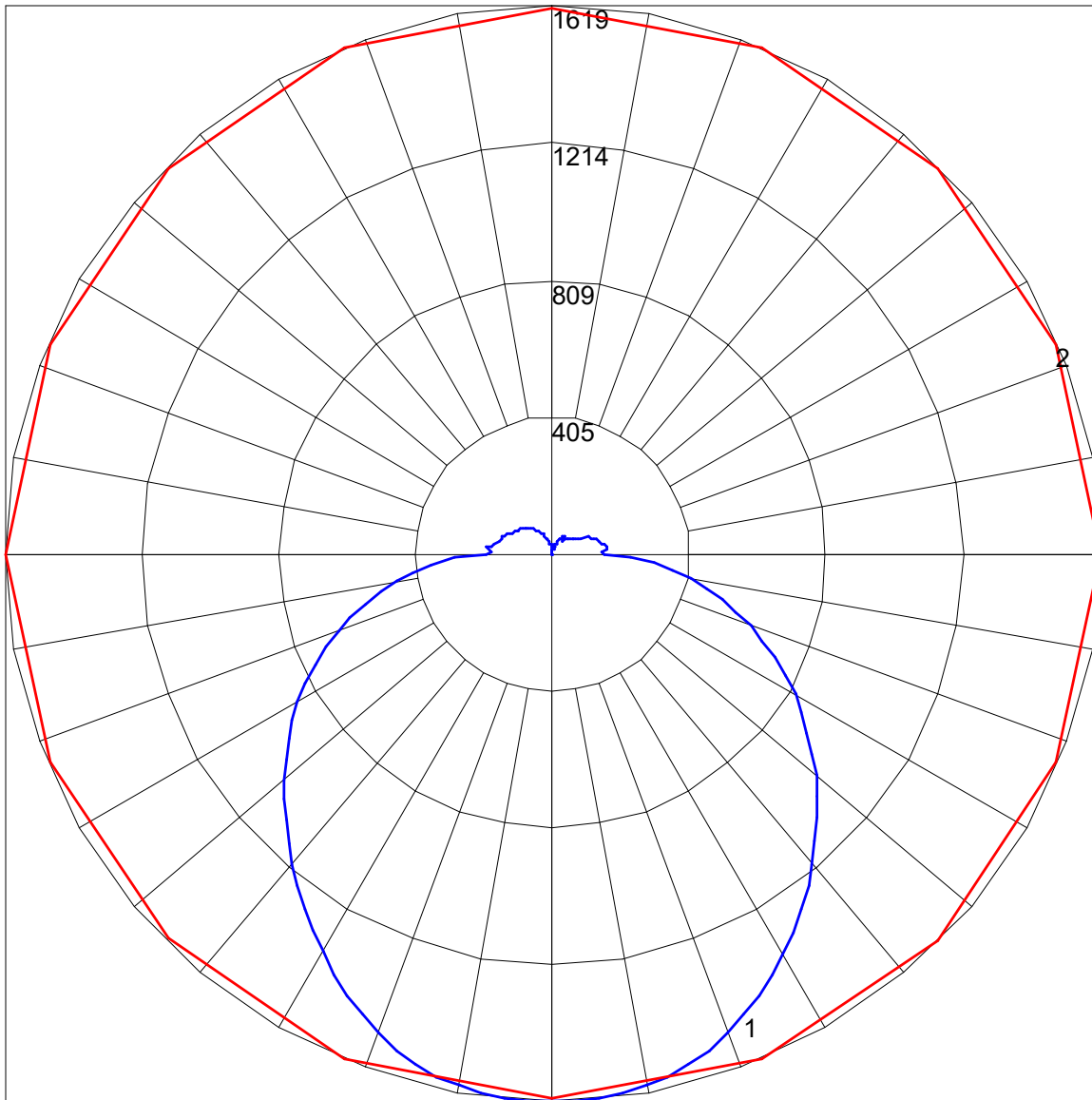
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTRI-44-LED35-LO.IES**

**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 = 1618.734 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.)