



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-30-LED35-LO-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Quad-30-LED35-LO-D9  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 9, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	75
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.21 ft
Luminous Width (90-270)	2.21 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4190	4179	4160
55	4031	4012	3984
65	3819	3789	3765
75	3523	3478	3461
85	3044	2955	2995

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-LO-D9.IES**

**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366
<b>2.5</b>	2035.784	2036.299	2035.714	2035.020	2035.355	2035.020	2035.714	2036.299	2035.784	2036.299
<b>5.0</b>	2028.577	2028.624	2028.101	2027.922	2027.282	2027.922	2028.101	2028.624	2028.577	2028.624
<b>7.5</b>	2016.121	2016.245	2015.918	2015.621	2015.403	2015.621	2015.918	2016.245	2016.121	2016.245
<b>10.0</b>	1999.015	1999.319	1998.298	1998.032	1997.533	1998.032	1998.298	1999.319	1999.015	1999.319
<b>12.5</b>	1977.167	1977.838	1976.559	1976.224	1975.545	1976.224	1976.559	1977.838	1977.167	1977.838
<b>15.0</b>	1952.145	1951.794	1950.983	1949.953	1949.735	1949.953	1950.983	1951.794	1952.145	1951.794
<b>17.5</b>	1921.686	1921.756	1921.117	1919.284	1918.800	1919.284	1921.117	1921.756	1921.686	1921.756
<b>20.0</b>	1888.029	1887.491	1886.516	1885.003	1883.450	1885.003	1886.516	1887.491	1888.029	1887.491
<b>22.5</b>	1849.536	1849.271	1847.703	1845.363	1844.677	1845.363	1847.703	1849.271	1849.536	1849.271
<b>25.0</b>	1807.416	1807.026	1804.975	1803.196	1802.369	1803.196	1804.975	1807.026	1807.416	1807.026
<b>27.5</b>	1761.334	1760.546	1757.792	1755.679	1754.282	1755.679	1757.792	1760.546	1761.334	1760.546
<b>30.0</b>	1710.314	1710.212	1707.896	1705.486	1703.809	1705.486	1707.896	1710.212	1710.314	1710.212
<b>32.5</b>	1656.899	1656.790	1653.920	1651.213	1651.065	1651.213	1653.920	1656.790	1656.899	1656.790
<b>35.0</b>	1601.426	1600.505	1597.417	1593.665	1594.055	1593.665	1597.417	1600.505	1601.426	1600.505
<b>37.5</b>	1542.060	1540.578	1537.068	1533.410	1533.620	1533.410	1537.068	1540.578	1542.060	1540.578
<b>40.0</b>	1480.237	1477.733	1474.325	1470.316	1469.052	1470.316	1474.325	1477.733	1480.237	1477.733
<b>42.5</b>	1412.884	1412.096	1407.635	1404.016	1403.454	1404.016	1407.635	1412.096	1412.884	1412.096
<b>45.0</b>	1343.449	1344.244	1340.017	1334.993	1334.081	1334.993	1340.017	1344.244	1343.449	1344.244
<b>47.5</b>	1272.430	1272.913	1268.709	1263.967	1262.773	1263.967	1268.709	1272.913	1272.430	1272.913
<b>50.0</b>	1199.406	1199.055	1195.139	1191.115	1188.743	1191.115	1195.139	1199.055	1199.406	1199.055
<b>52.5</b>	1124.659	1123.941	1120.322	1115.829	1113.497	1115.829	1120.322	1123.941	1124.659	1123.941
<b>55.0</b>	1048.429	1047.852	1043.523	1038.820	1036.316	1038.820	1043.523	1047.852	1048.429	1047.852
<b>57.5</b>	969.314	969.673	965.086	960.235	958.285	960.235	965.086	969.673	969.314	969.673
<b>60.0</b>	890.183	890.643	886.337	881.361	880.386	881.361	886.337	890.643	890.183	890.643
<b>62.5</b>	811.028	810.358	806.216	802.628	800.966	802.628	806.216	810.358	811.028	810.358
<b>65.0</b>	731.843	729.721	726.188	721.991	721.609	721.991	726.188	729.721	731.843	729.721
<b>67.5</b>	651.448	650.177	645.895	642.127	641.909	642.127	645.895	650.177	651.448	650.177
<b>70.0</b>	570.484	569.735	564.767	561.873	562.255	561.873	564.767	569.735	570.484	569.735
<b>72.5</b>	491.111	489.988	485.425	482.960	483.428	482.960	485.425	489.988	491.111	489.988
<b>75.0</b>	413.462	411.653	408.166	405.857	406.216	405.857	408.166	411.653	413.462	411.653
<b>77.5</b>	337.295	334.932	331.274	330.104	329.995	330.104	331.274	334.932	337.295	334.932
<b>80.0</b>	262.088	260.185	256.370	255.692	255.544	255.692	256.370	260.185	262.088	260.185
<b>82.5</b>	188.752	188.596	184.470	183.877	185.468	183.877	184.470	188.596	188.752	188.596
<b>85.0</b>	120.307	119.808	116.774	117.133	118.365	117.133	116.774	119.808	120.307	119.808
<b>87.5</b>	57.088	57.244	52.673	53.422	53.898	53.422	52.673	57.244	57.088	57.244
<b>90.0</b>	57.541	59.374	51.550	27.542	6.880	27.542	51.550	59.374	57.541	59.374
<b>92.5</b>	78.101	72.641	54.795	31.574	14.453	31.574	54.795	72.641	78.101	72.641
<b>95.0</b>	78.398	73.858	57.946	37.058	25.826	37.058	57.946	73.858	78.398	73.858
<b>97.5</b>	87.235	82.602	66.019	44.827	35.326	44.827	66.019	82.602	87.235	82.602
<b>100.0</b>	97.750	92.836	76.190	54.530	47.814	54.530	76.190	92.836	97.750	92.836
<b>102.5</b>	109.028	104.442	86.479	65.091	60.629	65.091	86.479	104.442	109.028	104.442
<b>105.0</b>	121.282	116.626	97.422	76.916	72.493	76.916	97.422	116.626	121.282	116.626
<b>107.5</b>	132.584	127.000	108.732	89.396	86.315	89.396	108.732	127.000	132.584	127.000
<b>110.0</b>	143.044	137.732	120.962	102.547	100.519	102.547	120.962	137.732	143.044	137.732
<b>112.5</b>	153.746	149.066	132.967	116.415	110.253	116.415	132.967	149.066	153.746	149.066
<b>115.0</b>	166.631	161.725	146.351	129.425	128.544	129.425	146.351	161.725	166.631	161.725
<b>117.5</b>	180.211	175.266	160.001	143.988	142.100	143.988	160.001	175.266	180.211	175.266
<b>120.0</b>	193.463	189.766	173.363	158.122	154.307	158.122	173.363	189.766	193.463	189.766
<b>122.5</b>	207.035	203.221	188.292	175.313	168.277	175.313	188.292	203.221	207.035	203.221
<b>125.0</b>	220.085	216.583	203.003	188.635	186.958	188.635	203.003	216.583	220.085	216.583
<b>127.5</b>	234.491	230.591	216.973	202.254	197.278	202.254	216.973	230.591	234.491	230.591
<b>130.0</b>	248.290	244.670	232.354	217.815	212.846	217.815	232.354	244.670	248.290	244.670
<b>132.5</b>	262.337	258.281	248.672	231.395	230.864	231.395	248.672	258.281	262.337	258.281

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-LO-D9.IES**

**CANDELA TABULATION - (Cont.)**

135.0	275.831	271.463	261.721	245.747	245.068	245.747	261.721	271.463	275.831	271.463
137.5	288.101	283.897	274.357	260.840	256.152	260.840	274.357	283.897	288.101	283.897
140.0	301.080	296.182	286.822	278.702	270.270	278.702	286.822	296.182	301.080	296.182
142.5	311.883	308.162	298.834	293.132	288.202	293.132	298.834	308.162	311.883	308.162
145.0	323.622	319.145	312.195	304.317	303.779	304.317	312.195	319.145	323.622	319.145
147.5	333.349	329.893	323.770	315.931	314.184	315.931	323.770	329.893	333.349	329.893
150.0	343.941	339.815	333.996	326.407	324.870	326.407	333.996	339.815	343.941	339.815
152.5	352.677	349.565	343.231	338.270	334.246	338.270	343.231	349.565	352.677	349.565
155.0	361.982	358.207	353.067	348.449	346.616	348.449	353.067	358.207	361.982	358.207
157.5	369.447	366.631	361.444	356.920	356.554	356.920	361.444	366.631	369.447	366.631
160.0	375.866	373.994	369.595	364.978	364.213	364.978	369.595	373.994	375.866	373.994
162.5	382.200	380.344	377.598	373.581	372.489	373.581	377.598	380.344	382.200	380.344
165.0	387.605	386.045	383.206	380.406	379.969	380.406	383.206	386.045	387.605	386.045
167.5	391.825	390.803	388.783	386.662	387.535	386.662	388.783	390.803	391.825	390.803
170.0	395.632	394.992	393.042	390.944	392.090	390.944	393.042	394.992	395.632	394.992
172.5	398.284	397.831	396.809	395.296	395.179	395.296	396.809	397.831	398.284	397.831
175.0	400.600	400.327	398.962	398.549	399.298	398.549	398.962	400.327	400.600	400.327
177.5	401.848	401.388	400.881	400.163	400.304	400.163	400.881	401.388	401.848	401.388
180.0	401.162	401.162	401.162	401.162	401.162	401.162	401.162	401.162	401.162	401.162

**Vert. Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366	2038.366
2.5	2035.714	2035.020	2035.355	2035.020	2035.714	2036.299	2035.784
5.0	2028.101	2027.922	2027.282	2027.922	2028.101	2028.624	2028.577
7.5	2015.918	2015.621	2015.403	2015.621	2015.918	2016.245	2016.121
10.0	1998.298	1998.032	1997.533	1998.032	1998.298	1999.319	1999.015
12.5	1976.559	1976.224	1975.545	1976.224	1976.559	1977.838	1977.167
15.0	1950.983	1949.953	1949.735	1949.953	1950.983	1951.794	1952.145
17.5	1921.117	1919.284	1918.800	1919.284	1921.117	1921.756	1921.686
20.0	1886.516	1885.003	1883.450	1885.003	1886.516	1887.491	1888.029
22.5	1847.703	1845.363	1844.677	1845.363	1847.703	1849.271	1849.536
25.0	1804.975	1803.196	1802.369	1803.196	1804.975	1807.026	1807.416
27.5	1757.792	1755.679	1754.282	1755.679	1757.792	1760.546	1761.334
30.0	1707.896	1705.486	1703.809	1705.486	1707.896	1710.212	1710.314
32.5	1653.920	1651.213	1651.065	1651.213	1653.920	1656.790	1656.899
35.0	1597.417	1593.665	1594.055	1593.665	1597.417	1600.505	1601.426
37.5	1537.068	1533.410	1533.620	1533.410	1537.068	1540.578	1542.060
40.0	1474.325	1470.316	1469.052	1470.316	1474.325	1477.733	1480.237
42.5	1407.635	1404.016	1403.454	1404.016	1407.635	1412.096	1412.884
45.0	1340.017	1334.993	1334.081	1334.993	1340.017	1344.244	1343.449
47.5	1268.709	1263.967	1262.773	1263.967	1268.709	1272.913	1272.430
50.0	1195.139	1191.115	1188.743	1191.115	1195.139	1199.055	1199.406
52.5	1120.322	1115.829	1113.497	1115.829	1120.322	1123.941	1124.659
55.0	1043.523	1038.820	1036.316	1038.820	1043.523	1047.852	1048.429
57.5	965.086	960.235	958.285	960.235	965.086	969.673	969.314
60.0	886.337	881.361	880.386	881.361	886.337	890.643	890.183
62.5	806.216	802.628	800.966	802.628	806.216	810.358	811.028
65.0	726.188	721.991	721.609	721.991	726.188	729.721	731.843
67.5	645.895	642.127	641.909	642.127	645.895	650.177	651.448
70.0	564.767	561.873	562.255	561.873	564.767	569.735	570.484
72.5	485.425	482.960	483.428	482.960	485.425	489.988	491.111
75.0	408.166	405.857	406.216	405.857	408.166	411.653	413.462
77.5	331.274	330.104	329.995	330.104	331.274	334.932	337.295
80.0	256.370	255.692	255.544	255.692	256.370	260.185	262.088

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-LO-D9.IES**

**CANDELA TABULATION - (Cont.)**

82.5	184.470	183.877	185.468	183.877	184.470	188.596	188.752
85.0	116.774	117.133	118.365	117.133	116.774	119.808	120.307
87.5	52.673	53.422	53.898	53.422	52.673	57.244	57.088
90.0	51.550	27.542	6.880	27.542	51.550	59.374	57.541
92.5	54.795	31.574	14.453	31.574	54.795	72.641	78.101
95.0	57.946	37.058	25.826	37.058	57.946	73.858	78.398
97.5	66.019	44.827	35.326	44.827	66.019	82.602	87.235
100.0	76.190	54.530	47.814	54.530	76.190	92.836	97.750
102.5	86.479	65.091	60.629	65.091	86.479	104.442	109.028
105.0	97.422	76.916	72.493	76.916	97.422	116.626	121.282
107.5	108.732	89.396	86.315	89.396	108.732	127.000	132.584
110.0	120.962	102.547	100.519	102.547	120.962	137.732	143.044
112.5	132.967	116.415	110.253	116.415	132.967	149.066	153.746
115.0	146.351	129.425	128.544	129.425	146.351	161.725	166.631
117.5	160.001	143.988	142.100	143.988	160.001	175.266	180.211
120.0	173.363	158.122	154.307	158.122	173.363	189.766	193.463
122.5	188.292	175.313	168.277	175.313	188.292	203.221	207.035
125.0	203.003	188.635	186.958	188.635	203.003	216.583	220.085
127.5	216.973	202.254	197.278	202.254	216.973	230.591	234.491
130.0	232.354	217.815	212.846	217.815	232.354	244.670	248.290
132.5	248.672	231.395	230.864	231.395	248.672	258.281	262.337
135.0	261.721	245.747	245.068	245.747	261.721	271.463	275.831
137.5	274.357	260.840	256.152	260.840	274.357	283.897	288.101
140.0	286.822	278.702	270.270	278.702	286.822	296.182	301.080
142.5	298.834	293.132	288.202	293.132	298.834	308.162	311.883
145.0	312.195	304.317	303.779	304.317	312.195	319.145	323.622
147.5	323.770	315.931	314.184	315.931	323.770	329.893	333.349
150.0	333.996	326.407	324.870	326.407	333.996	339.815	343.941
152.5	343.231	338.270	334.246	338.270	343.231	349.565	352.677
155.0	353.067	348.449	346.616	348.449	353.067	358.207	361.982
157.5	361.444	356.920	356.554	356.920	361.444	366.631	369.447
160.0	369.595	364.978	364.213	364.978	369.595	373.994	375.866
162.5	377.598	373.581	372.489	373.581	377.598	380.344	382.200
165.0	383.206	380.406	379.969	380.406	383.206	386.045	387.605
167.5	388.783	386.662	387.535	386.662	388.783	390.803	391.825
170.0	393.042	390.944	392.090	390.944	393.042	394.992	395.632
172.5	396.809	395.296	395.179	395.296	396.809	397.831	398.284
175.0	398.962	398.549	399.298	398.549	398.962	400.327	400.600
177.5	400.881	400.163	400.304	400.163	400.881	401.388	401.848
180.0	401.162	401.162	401.162	401.162	401.162	401.162	401.162

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-LO-D9.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	743.13	N.A.	10.60
0-30	1574.71	N.A.	22.40
0-40	2573.75	N.A.	36.60
0-60	4538.88	N.A.	64.60
0-80	5690.04	N.A.	81.00
0-90	5828.62	N.A.	83.00
10-90	5635.95	N.A.	80.20
20-40	1830.62	N.A.	26.10
20-50	2863.55	N.A.	40.80
40-70	2683.86	N.A.	38.20
60-80	1151.16	N.A.	16.40
70-80	432.42	N.A.	6.20
80-90	138.58	N.A.	2.00
90-110	164.82	N.A.	2.30
90-120	309.96	N.A.	4.40
90-130	491.28	N.A.	7.00
90-150	886.77	N.A.	12.60
90-180	1195.61	N.A.	17.00
110-180	1030.79	N.A.	14.70
0-180	7024.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	192.66
10-20	550.47
20-30	831.58
30-40	999.04
40-50	1032.93
50-60	932.19
60-70	718.74
70-80	432.42
80-90	138.58
90-100	62.32
100-110	102.50
110-120	145.14
120-130	181.31
130-140	200.39
140-150	195.11
150-160	162.76
160-170	108.16
170-180	37.92

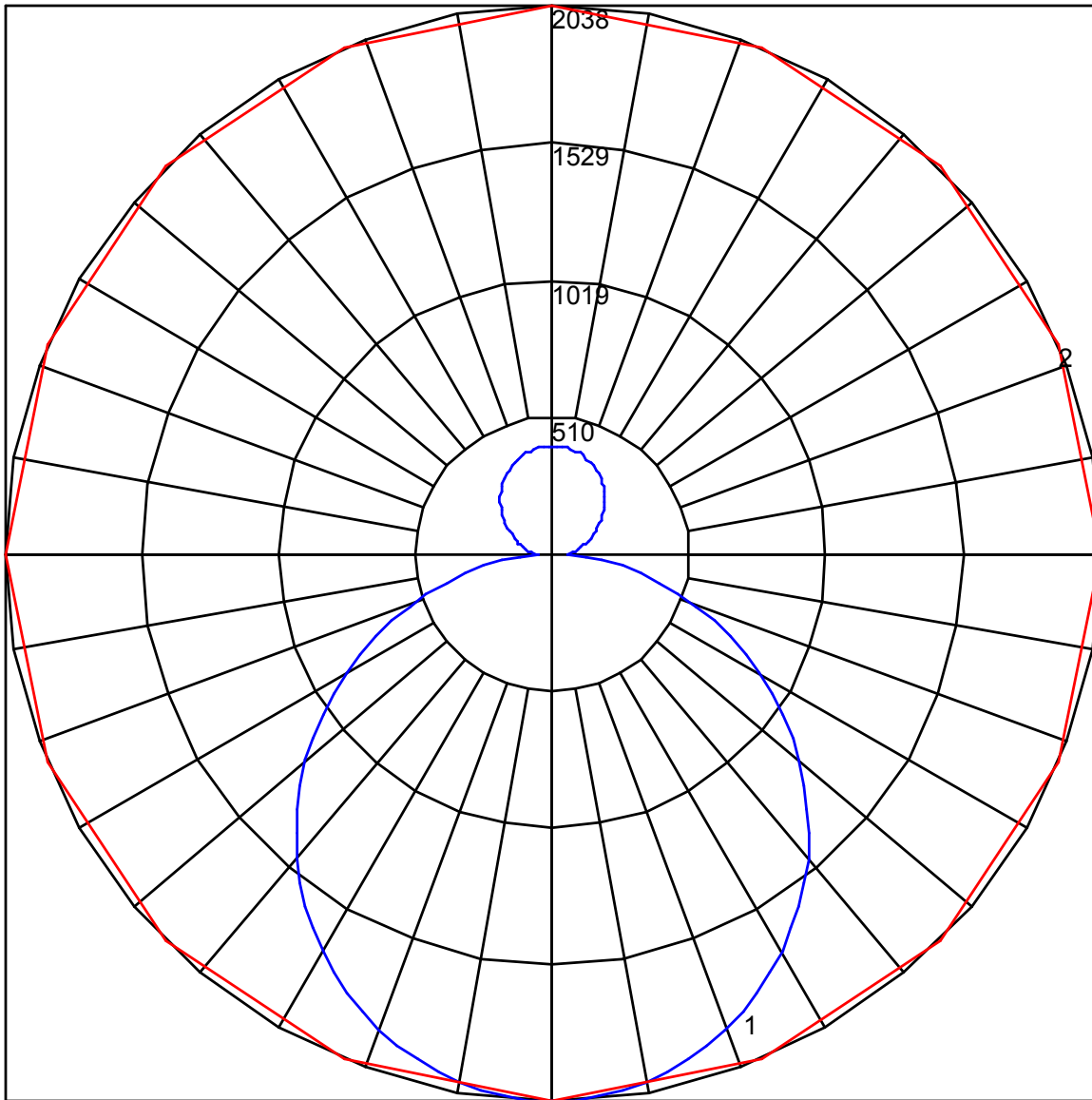
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-LO-D9.IES**

**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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	105	100	96	92	100	96	92	89	89	86	83	82	80	77	76	74	72	69
2	95	87	80	75	91	84	78	72	77	72	68	72	68	64	66	63	60	57
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	58	54	51	48
4	79	67	59	52	76	65	57	51	60	54	48	56	50	46	52	47	44	41
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	45	39	35	42	37	33	31
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	33	30	27
8	58	45	36	30	55	43	35	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	22	30	25	22	20

POLAR GRAPH



Maximum Candela = 2038.366 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)