



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4030-TU-LO-FWA-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P4030-TU-LO-FWA -D1

[TESTLAB] Intertek

[ISSUE DATE] October 4, 2016

[MANUFAC] Prudential Ltg

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5830
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.96 ft (Diameter)
Luminous Width (90-270)	2.96 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2986	2978	2984
55	2883	2870	2872
65	2723	2705	2714
75	2470	2463	2478
85	1941	1976	2018

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4030-TU-LO-FWA-D1.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>	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831
<b>2.5</b>	2019.270	2018.679	2019.485	2019.348	2019.803	2019.348	2019.485	2018.679	2020.239	2018.679
<b>5.0</b>	2012.601	2012.556	2012.673	2012.289	2012.738	2012.289	2012.673	2012.556	2013.115	2012.556
<b>7.5</b>	2001.974	2001.805	2000.888	2000.303	2000.765	2000.303	2000.888	2001.805	2000.323	2001.805
<b>10.0</b>	1984.775	1984.989	1984.976	1985.457	1985.028	1985.457	1984.976	1984.989	1985.113	1984.989
<b>12.5</b>	1964.105	1965.158	1964.716	1963.617	1964.586	1963.617	1964.716	1965.158	1964.696	1965.158
<b>15.0</b>	1939.171	1941.433	1939.509	1939.710	1939.756	1939.710	1939.509	1941.433	1940.120	1941.433
<b>17.5</b>	1909.128	1911.565	1911.767	1910.148	1910.571	1910.148	1911.767	1911.565	1911.676	1911.565
<b>20.0</b>	1876.836	1877.804	1877.622	1877.577	1878.103	1877.577	1877.622	1877.804	1878.337	1877.804
<b>22.5</b>	1839.987	1841.391	1840.338	1839.890	1841.326	1839.890	1840.338	1841.391	1840.910	1841.391
<b>25.0</b>	1797.113	1799.161	1798.459	1797.874	1799.460	1797.874	1798.459	1799.161	1800.903	1799.161
<b>27.5</b>	1753.128	1754.265	1754.038	1753.193	1755.364	1753.193	1754.038	1754.265	1754.766	1754.265
<b>30.0</b>	1701.869	1706.562	1706.347	1704.644	1707.329	1704.644	1706.347	1706.562	1708.031	1706.562
<b>32.5</b>	1648.699	1653.775	1652.696	1652.742	1656.427	1652.742	1652.696	1653.775	1655.920	1653.775
<b>35.0</b>	1593.559	1599.747	1597.264	1598.551	1600.365	1598.551	1597.264	1599.747	1598.655	1599.747
<b>37.5</b>	1540.292	1539.720	1538.823	1538.394	1541.260	1538.394	1538.823	1539.720	1539.239	1539.720
<b>40.0</b>	1482.396	1477.125	1476.923	1476.637	1478.990	1476.637	1476.923	1477.125	1478.613	1477.125
<b>42.5</b>	1418.235	1414.601	1412.879	1412.853	1415.147	1412.853	1412.879	1414.601	1413.574	1414.601
<b>45.0</b>	1349.393	1346.767	1345.916	1345.396	1348.717	1345.396	1345.916	1346.767	1344.752	1346.767
<b>47.5</b>	1276.333	1276.873	1275.612	1275.807	1278.316	1275.807	1275.612	1276.873	1273.870	1276.873
<b>50.0</b>	1204.450	1205.145	1202.545	1203.124	1205.132	1203.124	1202.545	1205.145	1202.045	1205.145
<b>52.5</b>	1132.677	1130.603	1128.231	1128.081	1129.921	1128.081	1128.231	1130.603	1126.625	1130.603
<b>55.0</b>	1056.945	1053.552	1052.155	1051.362	1052.935	1051.362	1052.155	1053.552	1050.575	1053.552
<b>57.5</b>	976.547	975.507	973.713	974.083	975.695	974.083	973.713	975.507	971.906	975.507
<b>60.0</b>	895.199	896.740	894.452	894.829	896.382	894.829	894.452	896.740	893.061	896.740
<b>62.5</b>	815.132	815.217	812.844	815.009	814.970	815.009	812.844	815.217	812.903	815.217
<b>65.0</b>	735.488	734.019	730.710	733.395	733.226	733.395	730.710	734.019	730.158	734.019
<b>67.5</b>	653.178	651.794	648.706	649.805	652.489	649.805	648.706	651.794	648.843	651.794
<b>70.0</b>	568.347	569.400	568.158	567.788	569.972	567.788	568.158	569.400	567.424	569.400
<b>72.5</b>	487.045	488.403	487.298	488.306	489.541	488.306	487.298	488.403	487.461	488.403
<b>75.0</b>	408.557	408.616	407.426	409.298	409.890	409.298	407.426	408.616	408.668	408.616
<b>77.5</b>	331.558	330.304	328.913	331.883	332.429	331.883	328.913	330.304	330.902	330.304
<b>80.0</b>	254.975	255.183	253.799	255.365	256.074	255.365	253.799	255.183	253.929	255.183
<b>82.5</b>	180.141	182.117	180.258	181.324	182.799	181.324	180.258	182.117	180.563	182.117
<b>85.0</b>	108.140	112.521	110.058	111.923	112.404	111.923	110.058	112.521	111.494	112.521
<b>87.5</b>	44.551	47.183	44.817	46.501	47.242	46.501	44.817	47.183	45.812	47.183
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831	2021.831
2.5	2019.485	2019.348	2019.803	2019.348	2019.485	2018.679	2019.270
5.0	2012.673	2012.289	2012.738	2012.289	2012.673	2012.556	2012.601
7.5	2000.888	2000.303	2000.765	2000.303	2000.888	2001.805	2001.974
10.0	1984.976	1985.457	1985.028	1985.457	1984.976	1984.989	1984.775
12.5	1964.716	1963.617	1964.586	1963.617	1964.716	1965.158	1964.105
15.0	1939.509	1939.710	1939.756	1939.710	1939.509	1941.433	1939.171
17.5	1911.767	1910.148	1910.571	1910.148	1911.767	1911.565	1909.128
20.0	1877.622	1877.577	1878.103	1877.577	1877.622	1877.804	1876.836
22.5	1840.338	1839.890	1841.326	1839.890	1840.338	1841.391	1839.987
25.0	1798.459	1797.874	1799.460	1797.874	1798.459	1799.161	1797.113
27.5	1754.038	1753.193	1755.364	1753.193	1754.038	1754.265	1753.128
30.0	1706.347	1704.644	1707.329	1704.644	1706.347	1706.562	1701.869
32.5	1652.696	1652.742	1656.427	1652.742	1652.696	1653.775	1648.699
35.0	1597.264	1598.551	1600.365	1598.551	1597.264	1599.747	1593.559
37.5	1538.823	1538.394	1541.260	1538.394	1538.823	1539.720	1540.292
40.0	1476.923	1476.637	1478.990	1476.637	1476.923	1477.125	1482.396
42.5	1412.879	1412.853	1415.147	1412.853	1412.879	1414.601	1418.235
45.0	1345.916	1345.396	1348.717	1345.396	1345.916	1346.767	1349.393
47.5	1275.612	1275.807	1278.316	1275.807	1275.612	1276.873	1276.333
50.0	1202.545	1203.124	1205.132	1203.124	1202.545	1205.145	1204.450
52.5	1128.231	1128.081	1129.921	1128.081	1128.231	1130.603	1132.677
55.0	1052.155	1051.362	1052.935	1051.362	1052.155	1053.552	1056.945
57.5	973.713	974.083	975.695	974.083	973.713	975.507	976.547
60.0	894.452	894.829	896.382	894.829	894.452	896.740	895.199
62.5	812.844	815.009	814.970	815.009	812.844	815.217	815.132
65.0	730.710	733.395	733.226	733.395	730.710	734.019	735.488
67.5	648.706	649.805	652.489	649.805	648.706	651.794	653.178
70.0	568.158	567.788	569.972	567.788	568.158	569.400	568.347
72.5	487.298	488.306	489.541	488.306	487.298	488.403	487.045
75.0	407.426	409.298	409.890	409.298	407.426	408.616	408.557
77.5	328.913	331.883	332.429	331.883	328.913	330.304	331.558
80.0	253.799	255.365	256.074	255.365	253.799	255.183	254.975

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CANDELA TABULATION - (Cont.)

82.5	180.258	181.324	182.799	181.324	180.258	182.117	180.141
85.0	110.058	111.923	112.404	111.923	110.058	112.521	108.140
87.5	44.817	46.501	47.242	46.501	44.817	47.183	44.551
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	738.69	N.A.	12.70
0-30	1567.8	N.A.	26.90
0-40	2567.45	N.A.	44.00
0-60	4546.36	N.A.	78.00
0-80	5703.62	N.A.	97.80
0-90	5830.48	N.A.	100.00
10-90	5639.25	N.A.	96.70
20-40	1828.76	N.A.	31.40
20-50	2866.98	N.A.	49.20
40-70	2703.85	N.A.	46.40
60-80	1157.26	N.A.	19.80
70-80	432.32	N.A.	7.40
80-90	126.86	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5830.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	191.23
10-20	547.46
20-30	829.11
30-40	999.65
40-50	1038.22
50-60	940.69
60-70	724.94
70-80	432.32
80-90	126.86
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

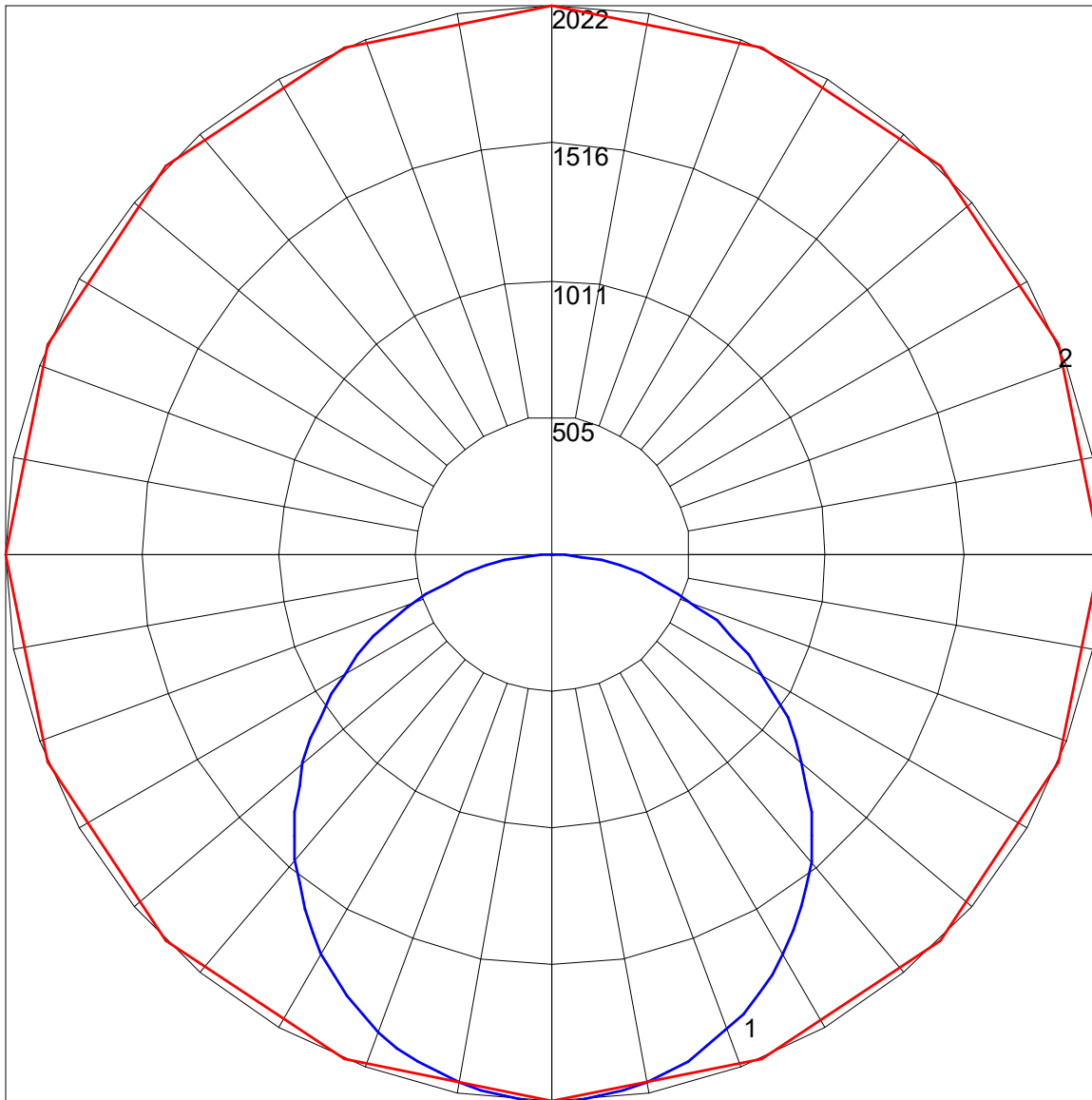
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2021.831 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.)