

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SRL-XX-A-35-BK.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3505
 [ECN] 3345
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 7/17/2018 2:33:37 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] SRL-xx-A-35-BK
 [LUMINAIRE] Black aluminum rail, one module
 [LAMP] Three (3) white LEDs (3500K) with baffle
 [ELECTRICALS] 12.01 VAC, 0.02 A, 0.9317 PF, 20% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	0.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7337	6852	4301
55	8564	7979	2066
65	7672	2381	53
75	0	0	29
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
2.5	6.13	6.13	6.13	6.13	6.12	6.12	6.12	6.11	6.10	6.10
5.0	6.29	6.29	6.28	6.27	6.27	6.26	6.25	6.23	6.21	6.19
7.5	6.43	6.43	6.42	6.41	6.39	6.38	6.36	6.33	6.30	6.27
10.0	6.55	6.55	6.54	6.53	6.51	6.49	6.46	6.43	6.40	6.36
12.5	6.67	6.67	6.65	6.64	6.61	6.59	6.56	6.52	6.47	6.43
15.0	6.74	6.74	6.74	6.72	6.70	6.67	6.63	6.59	6.54	6.48
17.5	6.83	6.82	6.81	6.79	6.76	6.73	6.69	6.64	6.58	6.51
20.0	6.87	6.87	6.87	6.85	6.82	6.78	6.74	6.68	6.61	6.53
22.5	6.94	6.93	6.92	6.90	6.87	6.82	6.78	6.71	6.63	6.54
25.0	6.97	6.97	6.96	6.94	6.92	6.86	6.80	6.72	6.64	6.54
27.5	7.02	7.01	7.00	6.98	6.95	6.90	6.84	6.74	6.64	6.53
30.0	7.03	7.03	7.02	7.01	6.98	6.92	6.86	6.76	6.65	6.53
32.5	7.06	7.06	7.04	7.03	7.01	6.95	6.88	6.77	6.65	6.51
35.0	7.05	7.05	7.05	7.04	7.03	6.96	6.89	6.76	6.63	6.48
37.5	7.05	7.05	7.04	7.04	7.04	6.98	6.91	6.77	6.62	6.45
40.0	7.06	7.06	7.04	7.07	7.09	7.03	6.96	6.78	6.60	6.42
42.5	7.04	7.05	7.05	7.13	7.21	7.18	7.15	6.90	6.64	6.42
45.0	6.96	6.97	6.98	7.14	7.30	7.31	7.33	7.09	6.84	6.50
47.5	6.86	6.86	6.86	7.01	7.15	7.25	7.34	7.19	7.04	6.69
50.0	6.79	6.77	6.74	6.78	6.82	6.94	7.05	7.02	6.98	6.78
52.5	6.68	6.66	6.64	6.61	6.59	6.61	6.62	6.67	6.70	6.59
55.0	6.59	6.56	6.53	6.48	6.42	6.39	6.36	6.31	6.26	6.14
57.5	6.44	6.43	6.40	6.34	6.27	6.19	6.12	6.01	5.90	5.72
60.0	6.32	6.30	6.27	6.19	6.11	5.97	5.84	5.62	5.40	5.07
62.5	6.07	5.97	5.86	5.71	5.55	5.25	4.93	4.53	4.12	3.66
65.0	4.35	4.08	3.80	3.53	3.27	2.94	2.62	2.17	1.71	1.35
67.5	1.11	1.00	0.88	0.78	0.67	0.57	0.47	0.36	0.24	0.18
70.0	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
2.5	6.08	6.07	6.06	6.05	6.03	6.02	6.01	6.00	5.98	5.97
5.0	6.17	6.15	6.12	6.10	6.07	6.04	6.01	5.99	5.96	5.93
7.5	6.24	6.21	6.18	6.14	6.10	6.06	6.02	5.98	5.94	5.90
10.0	6.31	6.27	6.23	6.18	6.12	6.07	6.01	5.95	5.89	5.83
12.5	6.37	6.32	6.26	6.20	6.12	6.05	5.98	5.92	5.84	5.77
15.0	6.41	6.35	6.27	6.19	6.11	6.03	5.94	5.86	5.78	5.69
17.5	6.43	6.35	6.27	6.18	6.08	5.99	5.90	5.80	5.70	5.61
20.0	6.45	6.35	6.25	6.15	6.05	5.94	5.83	5.73	5.61	5.50
22.5	6.44	6.34	6.23	6.12	6.00	5.89	5.77	5.65	5.52	5.40
25.0	6.44	6.33	6.21	6.08	5.95	5.83	5.69	5.56	5.42	5.28
27.5	6.42	6.30	6.17	6.04	5.89	5.75	5.60	5.46	5.31	5.16
30.0	6.40	6.27	6.13	5.98	5.83	5.68	5.51	5.35	5.19	5.02

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CANDELA TABULATION - (Cont.)

32.5	6.37	6.22	6.07	5.92	5.75	5.58	5.41	5.23	5.05	4.87
35.0	6.33	6.17	6.01	5.84	5.66	5.49	5.30	5.11	4.92	4.72
37.5	6.28	6.12	5.94	5.76	5.57	5.37	5.17	4.96	4.76	4.55
40.0	6.23	6.04	5.86	5.66	5.45	5.25	5.03	4.82	4.60	4.37
42.5	6.18	5.98	5.77	5.55	5.33	5.11	4.88	4.63	4.38	4.12
45.0	6.16	5.92	5.67	5.44	5.20	4.95	4.69	4.39	4.08	3.76
47.5	6.35	5.97	5.59	5.32	5.04	4.72	4.41	4.01	3.61	3.21
50.0	6.57	6.14	5.70	5.27	4.83	4.41	3.99	3.48	2.97	2.54
52.5	6.48	6.14	5.79	5.22	4.65	4.03	3.41	2.85	2.29	1.82
55.0	6.02	5.72	5.41	4.85	4.27	3.55	2.82	2.21	1.59	1.10
57.5	5.52	5.12	4.72	4.05	3.39	2.72	2.05	1.44	0.82	0.50
60.0	4.73	4.20	3.68	3.01	2.34	1.69	1.04	0.65	0.26	0.15
62.5	3.20	2.57	1.94	1.39	0.83	0.52	0.21	0.13	0.04	0.04
65.0	0.99	0.69	0.38	0.24	0.10	0.07	0.03	0.03	0.03	0.03
67.5	0.11	0.08	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
70.0	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03
72.5	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
75.0	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
2.5	5.95	5.94	5.92	5.91	5.89	5.88	5.87	5.86	5.85	5.84
5.0	5.89	5.87	5.85	5.82	5.79	5.77	5.75	5.73	5.70	5.69
7.5	5.85	5.81	5.76	5.72	5.68	5.65	5.61	5.58	5.55	5.52
10.0	5.77	5.72	5.66	5.61	5.56	5.51	5.46	5.43	5.38	5.35
12.5	5.70	5.63	5.56	5.50	5.42	5.37	5.30	5.25	5.20	5.16
15.0	5.61	5.53	5.44	5.36	5.28	5.21	5.14	5.08	5.01	4.96
17.5	5.51	5.41	5.31	5.22	5.13	5.05	4.96	4.89	4.81	4.75
20.0	5.39	5.28	5.17	5.07	4.96	4.86	4.77	4.68	4.60	4.53
22.5	5.27	5.15	5.03	4.91	4.78	4.68	4.57	4.48	4.38	4.30
25.0	5.14	5.01	4.86	4.73	4.60	4.48	4.36	4.25	4.14	4.05
27.5	5.01	4.85	4.69	4.55	4.41	4.27	4.13	4.02	3.90	3.80
30.0	4.85	4.69	4.52	4.36	4.19	4.05	3.90	3.77	3.64	3.53
32.5	4.69	4.51	4.33	4.16	3.98	3.82	3.66	3.51	3.37	3.25
35.0	4.52	4.33	4.13	3.94	3.75	3.58	3.40	3.24	3.09	2.96
37.5	4.34	4.13	3.92	3.71	3.51	3.32	3.13	2.97	2.80	2.66
40.0	4.13	3.90	3.67	3.46	3.24	3.04	2.84	2.67	2.50	2.35
42.5	3.85	3.59	3.33	3.10	2.88	2.68	2.47	2.32	2.16	2.01
45.0	3.44	3.12	2.80	2.55	2.30	2.11	1.91	1.76	1.61	1.37
47.5	2.81	2.46	2.11	1.85	1.59	1.40	1.20	0.99	0.77	0.50
50.0	2.10	1.75	1.40	1.11	0.81	0.63	0.45	0.27	0.08	0.05
52.5	1.35	1.00	0.65	0.44	0.22	0.13	0.05	0.03	0.01	0.01
55.0	0.60	0.39	0.17	0.10	0.03	0.03	0.02	0.02	0.00	0.00
57.5	0.17	0.10	0.03	0.03	0.03	0.03	0.02	0.02	0.00	0.00
60.0	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.00	0.00
62.5	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.00	0.00
65.0	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.00	0.00
67.5	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00

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70.0	0.03	0.03	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
72.5	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00
75.0	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	5.98	5.98	5.98	5.98	5.98	5.98	5.98
2.5	5.83	5.82	5.81	5.81	5.80	5.80	5.79
5.0	5.67	5.65	5.63	5.63	5.62	5.62	5.61
7.5	5.49	5.48	5.45	5.44	5.42	5.42	5.40
10.0	5.31	5.28	5.25	5.23	5.22	5.21	5.20
12.5	5.11	5.08	5.04	5.02	5.00	4.99	4.97
15.0	4.91	4.87	4.82	4.80	4.77	4.77	4.75
17.5	4.69	4.64	4.59	4.56	4.53	4.52	4.50
20.0	4.46	4.40	4.34	4.31	4.27	4.26	4.24
22.5	4.21	4.15	4.09	4.05	4.01	3.99	3.97
25.0	3.96	3.89	3.82	3.78	3.73	3.71	3.69
27.5	3.69	3.62	3.55	3.50	3.45	3.43	3.40
30.0	3.42	3.34	3.25	3.20	3.14	3.12	3.09
32.5	3.13	3.04	2.95	2.89	2.83	2.80	2.77
35.0	2.83	2.73	2.64	2.57	2.50	2.47	2.44
37.5	2.52	2.41	2.31	2.24	2.17	2.15	2.11
40.0	2.20	2.10	1.98	1.91	1.84	1.81	1.77
42.5	1.86	1.71	1.56	1.40	1.23	1.10	0.97
45.0	1.13	0.83	0.52	0.36	0.20	0.14	0.08
47.5	0.23	0.13	0.02	0.02	0.01	0.01	0.01
50.0	0.01	0.01	0.01	0.01	0.00	0.00	0.00
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2.20	N.A.	15.50
0-30	4.68	N.A.	33.00
0-40	7.72	N.A.	54.50
0-60	13.25	N.A.	93.50
0-80	14.18	N.A.	100.00
0-90	14.18	N.A.	100.00
10-90	13.61	N.A.	96.00
20-40	5.53	N.A.	39.00
20-50	8.59	N.A.	60.60
40-70	6.45	N.A.	45.50
60-80	0.93	N.A.	6.60
70-80	0.01	N.A.	0.10
80-90	0.00	N.A.	0.00
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	14.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.57
10-20	1.63
20-30	2.49
30-40	3.04
40-50	3.06
50-60	2.47
60-70	0.92
70-80	0.01
80-90	0.00
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

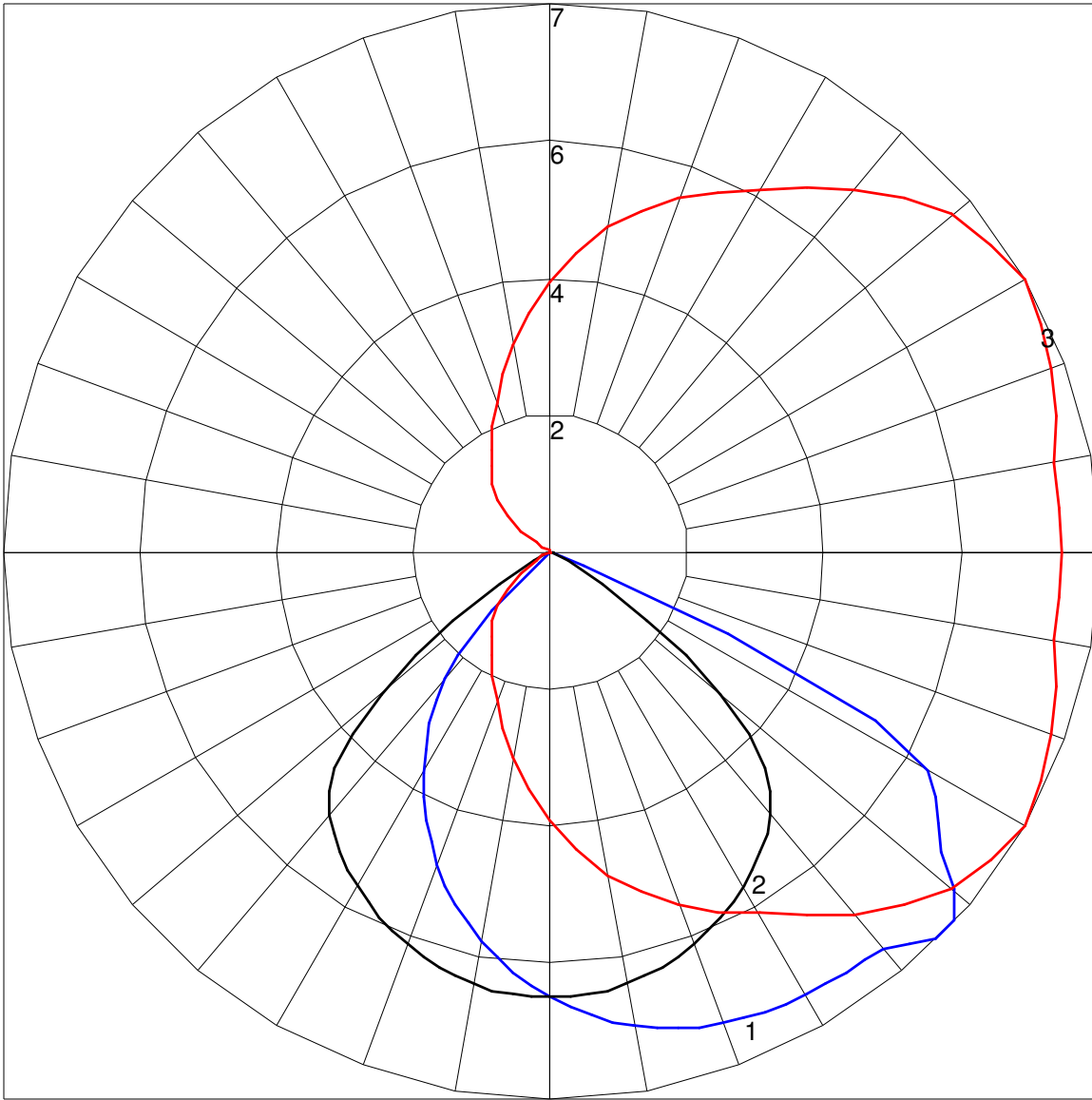
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	103	103	103	101
1	113	109	105	102	110	107	104	101	102	100	98	99	96	95	95	93	92	90
2	104	97	91	87	102	95	90	86	92	87	84	89	85	82	86	83	80	78
3	96	87	80	74	94	85	79	73	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	76	69	63	74	67	62	72	66	62	69	65	61	59
5	82	70	62	55	80	69	61	55	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	54	49	60	53	48	59	53	48	57	52	47	45
7	70	57	49	43	68	57	49	43	55	48	43	54	47	43	52	47	42	40
8	65	52	44	39	64	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	60	47	40	35	46	39	35	45	39	34	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	31	42	36	31	41	35	31	30

POLAR GRAPH



Maximum Candela = 7.34 Located At Horizontal Angle = 30, Vertical Angle = 47.5

1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)