

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-N-N-12-BK.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3297
 [ECN] 3314
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 12/6/2017 9:49:45 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] RSL2-BK-35K-N-N-12-BK
 [LUMINAIRE] Black aluminum housing with no baffle and lens, no graphic black plate
 [LAMP] Three (3) white LEDs (3500K)
 [ELECTRICALS] 12.08 VAC, 0.04 A, 0.9304 PF, 23% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	0.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.02 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6693	5704	3337
55	7684	6339	2825
65	9132	7121	2283
75	769	5060	1847
85	0	55	926

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-N-N-12-BK.IES

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	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
2.5	10.54	10.54	10.54	10.54	10.50	10.48	10.46	10.43	10.41	10.37
5.0	11.06	11.06	11.06	11.02	10.99	10.95	10.91	10.86	10.81	10.74
7.5	11.55	11.55	11.52	11.49	11.45	11.40	11.34	11.26	11.18	11.09
10.0	11.99	11.99	11.96	11.92	11.87	11.81	11.73	11.63	11.53	11.42
12.5	12.41	12.41	12.37	12.32	12.27	12.19	12.09	11.99	11.87	11.73
15.0	12.79	12.78	12.74	12.69	12.63	12.54	12.45	12.32	12.19	11.99
17.5	13.11	13.10	13.06	13.01	12.94	12.85	12.74	12.60	12.40	12.19
20.0	13.39	13.38	13.33	13.28	13.21	13.12	13.00	12.80	12.59	12.36
22.5	13.66	13.65	13.59	13.54	13.47	13.37	13.19	12.98	12.76	12.51
25.0	13.90	13.88	13.83	13.78	13.69	13.55	13.36	13.14	12.90	12.65
27.5	14.11	14.09	14.05	13.99	13.90	13.72	13.51	13.28	13.04	12.75
30.0	14.31	14.29	14.24	14.18	14.05	13.87	13.64	13.40	13.15	12.81
32.5	14.47	14.44	14.40	14.34	14.18	13.98	13.76	13.52	13.19	12.85
35.0	14.60	14.57	14.54	14.47	14.28	14.08	13.86	13.56	13.24	12.89
37.5	14.71	14.69	14.65	14.56	14.37	14.17	13.92	13.61	13.26	12.90
40.0	14.80	14.77	14.73	14.62	14.44	14.23	13.94	13.63	13.28	12.89
42.5	14.86	14.84	14.80	14.66	14.48	14.25	13.95	13.63	13.27	12.83
45.0	14.90	14.87	14.84	14.67	14.50	14.24	13.95	13.63	13.22	12.76
47.5	14.90	14.88	14.83	14.67	14.49	14.22	13.92	13.55	13.14	12.69
50.0	14.89	14.86	14.80	14.64	14.43	14.16	13.86	13.47	13.06	12.59
52.5	14.85	14.83	14.74	14.59	14.37	14.10	13.77	13.38	12.96	12.44
55.0	14.79	14.76	14.67	14.52	14.28	14.01	13.66	13.28	12.81	12.28
57.5	14.71	14.67	14.57	14.40	14.17	13.88	13.53	13.12	12.65	12.12
60.0	14.60	14.57	14.45	14.27	14.04	13.73	13.38	12.95	12.48	11.92
62.5	14.46	14.43	14.31	14.12	13.86	13.58	13.15	12.78	12.20	11.61
65.0	14.29	14.26	14.12	13.92	13.53	13.11	12.79	12.36	11.61	11.24
67.5	14.09	13.75	13.33	12.98	12.77	12.07	12.10	11.23	10.84	10.78
70.0	12.35	11.00	10.84	10.66	10.49	10.48	10.16	9.88	9.70	9.39
72.5	6.48	5.25	5.58	6.39	6.68	7.19	7.67	7.88	7.36	7.71
75.0	0.89	0.60	0.91	1.61	2.38	2.97	4.51	4.67	4.88	5.93
77.5	0.04	0.04	0.06	0.09	0.39	0.50	1.82	1.37	2.52	3.92
80.0	0.00	0.00	0.05	0.05	0.05	0.12	0.05	0.26	1.36	2.04
82.5	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.39	0.31
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.04
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03
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	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
2.5	10.34	10.31	10.25	10.21	10.16	10.12	10.08	10.02	9.97	9.92
5.0	10.67	10.60	10.52	10.43	10.34	10.25	10.16	10.07	9.96	9.86
7.5	10.99	10.88	10.77	10.64	10.51	10.39	10.24	10.09	9.94	9.79
10.0	11.31	11.16	11.01	10.85	10.70	10.50	10.32	10.13	9.93	9.73
12.5	11.58	11.40	11.20	10.98	10.77	10.53	10.29	10.05	9.80	9.58
15.0	11.79	11.56	11.33	11.07	10.81	10.54	10.26	9.97	9.67	9.39
17.5	11.95	11.72	11.43	11.15	10.88	10.56	10.22	9.89	9.54	9.21
20.0	12.11	11.83	11.54	11.22	10.90	10.55	10.20	9.81	9.41	9.04
22.5	12.24	11.95	11.63	11.27	10.89	10.49	10.08	9.67	9.21	8.79
25.0	12.35	12.03	11.65	11.26	10.84	10.41	9.96	9.50	9.02	8.55
27.5	12.41	12.05	11.65	11.24	10.79	10.33	9.85	9.34	8.81	8.30
30.0	12.45	12.07	11.65	11.21	10.74	10.25	9.72	9.18	8.61	8.05

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-N-N-12-BK.IES

CANDELA TABULATION - (Cont.)

32.5	12.48	12.08	11.64	11.17	10.65	10.11	9.54	8.95	8.34	7.74
35.0	12.49	12.08	11.59	11.07	10.52	9.94	9.34	8.71	8.06	7.42
37.5	12.49	12.02	11.51	10.98	10.39	9.78	9.15	8.48	7.79	7.11
40.0	12.45	11.94	11.42	10.86	10.26	9.62	8.97	8.24	7.51	6.78
42.5	12.37	11.86	11.32	10.73	10.10	9.41	8.69	7.94	7.16	6.35
45.0	12.28	11.77	11.19	10.55	9.88	9.16	8.41	7.63	6.81	5.91
47.5	12.19	11.62	11.01	10.36	9.65	8.92	8.13	7.32	6.46	5.44
50.0	12.05	11.46	10.83	10.16	9.42	8.67	7.85	7.01	6.11	4.97
52.5	11.89	11.29	10.64	9.94	9.18	8.37	7.54	6.64	5.47	4.29
55.0	11.73	11.11	10.43	9.68	8.89	8.05	7.17	6.25	4.83	3.65
57.5	11.54	10.90	10.19	9.42	8.59	7.73	6.84	5.87	4.19	2.95
60.0	11.31	10.65	9.92	9.14	8.30	7.42	6.47	5.48	3.55	2.30
62.5	11.05	10.40	9.66	8.85	7.95	7.02	6.07	5.07	3.29	2.05
65.0	10.76	10.08	9.14	8.31	7.50	6.60	5.65	4.63	3.03	1.82
67.5	10.01	9.16	8.41	7.74	7.05	6.18	5.22	4.19	2.76	1.57
70.0	8.82	8.19	7.65	7.13	6.55	5.74	4.79	3.75	2.50	1.33
72.5	7.57	7.15	6.83	6.31	5.77	5.02	4.13	3.18	2.08	1.05
75.0	6.08	5.60	5.33	5.04	4.74	4.19	3.44	2.59	1.67	0.77
77.5	4.03	3.74	3.79	3.74	3.68	3.34	2.74	2.00	1.24	0.51
80.0	1.96	1.82	2.23	2.42	2.60	2.49	2.02	1.41	0.82	0.24
82.5	0.05	0.39	1.19	1.59	1.87	1.85	1.52	1.06	0.62	0.19
85.0	0.04	0.24	0.78	1.06	1.24	1.24	1.02	0.71	0.42	0.13
87.5	0.03	0.12	0.40	0.53	0.63	0.63	0.52	0.37	0.22	0.08
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

	100	105	110	115	120	125	130	135	140	145
0.0	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
2.5	9.87	9.82	9.78	9.75	9.69	9.66	9.62	9.59	9.56	9.54
5.0	9.76	9.67	9.58	9.49	9.41	9.33	9.25	9.19	9.12	9.09
7.5	9.65	9.52	9.39	9.25	9.12	9.00	8.88	8.78	8.68	8.59
10.0	9.54	9.37	9.18	9.00	8.83	8.66	8.50	8.36	8.22	8.09
12.5	9.33	9.11	8.90	8.69	8.48	8.30	8.11	7.92	7.75	7.58
15.0	9.12	8.84	8.60	8.33	8.08	7.86	7.65	7.45	7.25	7.04
17.5	8.89	8.57	8.26	7.96	7.67	7.39	7.13	6.86	6.37	4.39
20.0	8.67	8.32	7.94	7.59	7.25	6.93	6.43	4.50	2.25	1.96
22.5	8.38	7.98	7.60	7.21	6.84	6.18	3.39	2.01	1.65	0.62
25.0	8.09	7.64	7.19	6.77	6.16	3.39	1.95	1.63	0.59	0.06
27.5	7.82	7.30	6.83	6.30	4.35	1.94	1.74	0.77	0.04	0.03
30.0	7.51	6.95	6.41	5.34	2.38	1.72	1.13	0.12	0.03	0.03
32.5	7.15	6.57	6.00	3.76	1.74	1.49	0.49	0.03	0.03	0.03
35.0	6.79	6.16	5.27	2.73	1.54	1.28	0.07	0.03	0.03	0.02
37.5	6.43	5.75	4.15	1.71	1.35	0.62	0.03	0.02	0.02	0.00
40.0	6.05	5.34	3.23	1.41	1.17	0.25	0.03	0.00	0.00	0.00
42.5	5.48	4.73	2.64	1.24	0.95	0.08	0.02	0.00	0.00	0.00
45.0	4.88	3.82	1.74	0.95	0.75	0.03	0.00	0.00	0.00	0.00
47.5	4.23	2.67	0.94	0.69	0.40	0.03	0.00	0.00	0.00	0.00
50.0	3.59	1.72	0.48	0.47	0.18	0.02	0.00	0.00	0.00	0.00
52.5	3.06	1.27	0.25	0.28	0.07	0.00	0.00	0.00	0.00	0.00
55.0	2.57	1.02	0.19	0.22	0.04	0.00	0.00	0.00	0.00	0.00
57.5	2.10	0.79	0.14	0.16	0.03	0.00	0.00	0.00	0.00	0.00
60.0	1.64	0.56	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00
62.5	1.35	0.39	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00
65.0	1.10	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.81	0.18	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-N-N-12-BK.IES

CANDELA TABULATION - (Cont.)

70.0	0.56	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.42	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.31	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.22	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.14	0.12	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
82.5	0.11	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.05	0.05	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	9.98	9.98	9.98	9.98	9.98	9.98	9.98
2.5	9.51	9.49	9.47	9.46	9.45	9.44	9.44
5.0	9.01	8.98	8.94	8.91	8.89	8.89	8.88
7.5	8.51	8.44	8.39	8.34	8.31	8.30	8.29
10.0	7.98	7.90	7.81	7.75	7.71	7.69	7.69
12.5	7.43	7.31	7.21	7.15	7.07	7.04	7.04
15.0	6.85	6.43	5.29	4.17	3.70	3.49	3.52
17.5	2.56	1.82	1.25	0.76	0.40	0.17	0.03
20.0	1.22	0.32	0.07	0.03	0.03	0.03	0.03
22.5	0.11	0.03	0.03	0.03	0.03	0.03	0.03
25.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03
27.5	0.03	0.03	0.03	0.03	0.03	0.03	0.03
30.0	0.03	0.03	0.03	0.03	0.03	0.02	0.02
32.5	0.02	0.02	0.02	0.02	0.02	0.00	0.00
35.0	0.02	0.00	0.00	0.00	0.00	0.00	0.00
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-N-N-12-BK.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3.52	N.A.	11.80
0-30	7.09	N.A.	23.70
0-40	11.58	N.A.	38.80
0-60	22.14	N.A.	74.10
0-80	29.61	N.A.	99.10
0-90	29.87	N.A.	100.00
10-90	28.92	N.A.	96.80
20-40	8.06	N.A.	27.00
20-50	13.21	N.A.	44.20
40-70	15.75	N.A.	52.70
60-80	7.47	N.A.	25.00
70-80	2.28	N.A.	7.60
80-90	0.25	N.A.	0.80
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	29.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.95
10-20	2.58
20-30	3.57
30-40	4.49
40-50	5.15
50-60	5.41
60-70	5.19
70-80	2.28
80-90	0.25
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

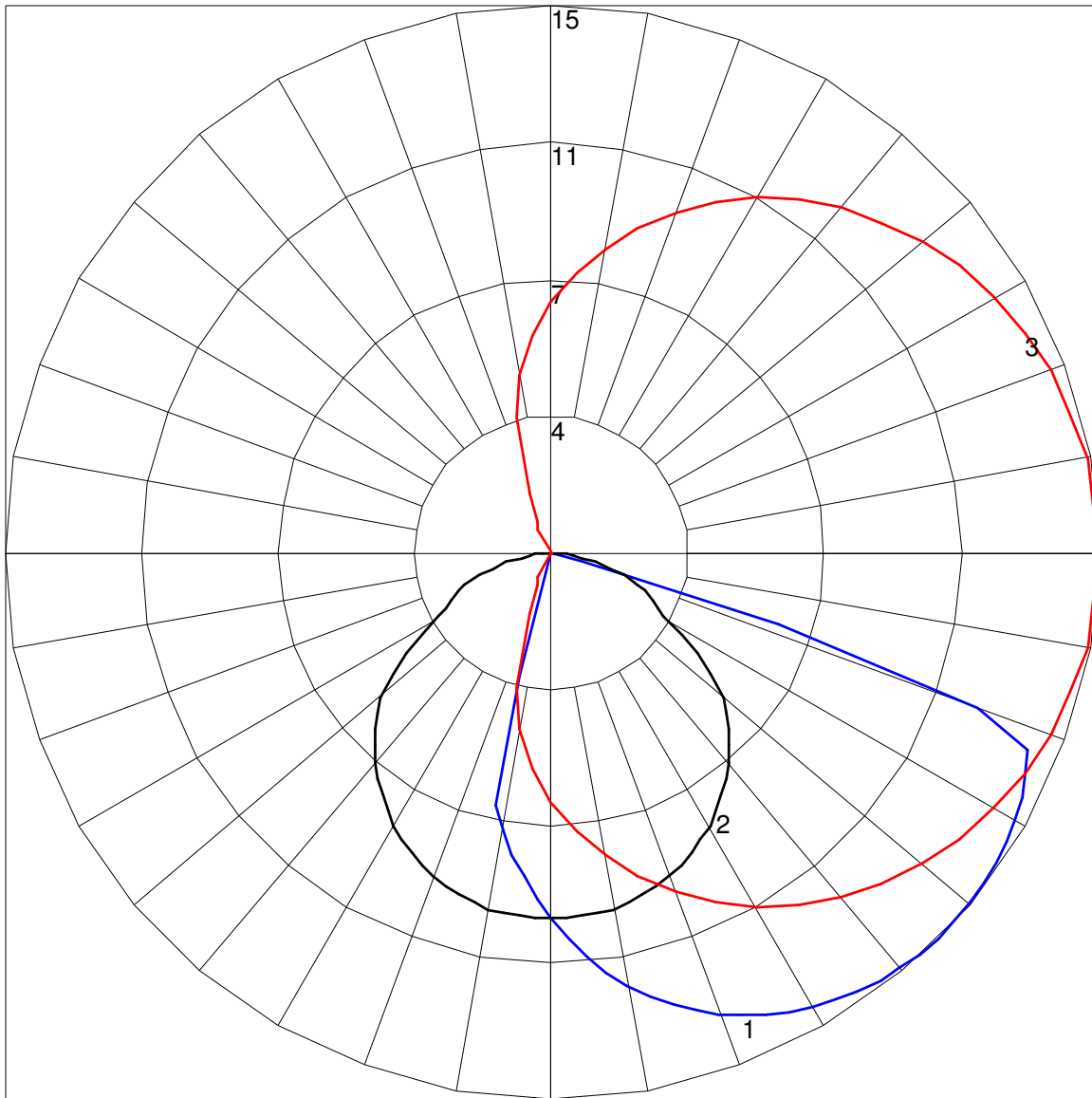
IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-N-N-12-BK.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	96	93	90	93	90	87	89	87	85	83
2	97	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	88	77	68	62	86	75	68	61	72	66	60	70	64	59	67	62	58	56
4	80	68	58	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	73	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	62	48	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	49	37	29	24	36	28	24	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 14.9 Located At Horizontal Angle = 0, Vertical Angle = 45

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

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

3 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)