

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX24LL40-UNV-LFP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33647.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/13/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-LFP

[LUMINAIRE] APX 4-2LP 1.0.1 4000K BOARDS 2-95W DRIVERS NO RESISTORS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 22667 LMS

[TESTDATE] 10/13/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22667
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	190.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13386	10804	10264
55	11564	8761	8404
65	9427	6857	7329
75	7129	5404	5891
85	3817	3482	3956

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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>
0.0	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98
2.5	7667.04	7684.26	7704.31	7709.22	7697.95	7709.22	7704.31	7684.26	7667.04	7684.26
5.0	7645.70	7659.77	7685.57	7699.87	7682.09	7699.87	7685.57	7659.77	7645.70	7659.77
7.5	7608.73	7621.43	7654.07	7668.76	7654.10	7668.76	7654.07	7621.43	7608.73	7621.43
10.0	7556.74	7574.43	7601.71	7626.30	7606.20	7626.30	7601.71	7574.43	7556.74	7574.43
12.5	7486.39	7511.45	7541.84	7552.31	7538.28	7552.31	7541.84	7511.45	7486.39	7511.45
15.0	7400.10	7433.89	7456.93	7461.69	7446.64	7461.69	7456.93	7433.89	7400.10	7433.89
17.5	7297.70	7337.31	7352.76	7349.82	7336.07	7349.82	7352.76	7337.31	7297.70	7337.31
20.0	7178.86	7214.89	7227.95	7218.37	7202.09	7218.37	7227.95	7214.89	7178.86	7214.89
22.5	7042.63	7079.26	7080.92	7072.94	7052.41	7072.94	7080.92	7079.26	7042.63	7079.26
25.0	6887.36	6922.90	6918.74	6898.75	6876.37	6898.75	6918.74	6922.90	6887.36	6922.90
27.5	6713.42	6747.78	6736.73	6705.30	6679.45	6705.30	6736.73	6747.78	6713.42	6747.78
30.0	6518.17	6551.97	6538.34	6494.60	6465.68	6494.60	6538.34	6551.97	6518.17	6551.97
32.5	6299.32	6333.20	6315.45	6255.95	6232.86	6255.95	6315.45	6333.20	6299.32	6333.20
35.0	6061.52	6093.72	6064.80	6003.95	5988.72	6003.95	6064.80	6093.72	6061.52	6093.72
37.5	5811.62	5833.33	5796.70	5749.77	5725.42	5749.77	5796.70	5833.33	5811.62	5833.33
40.0	5534.91	5551.73	5522.11	5479.97	5447.16	5479.97	5522.11	5551.73	5534.91	5551.73
42.5	5241.65	5257.48	5239.14	5183.29	5147.49	5183.29	5239.14	5257.48	5241.65	5257.48
45.0	4932.83	4951.57	4937.26	4866.46	4835.39	4866.46	4937.26	4951.57	4932.83	4951.57
47.5	4611.89	4630.68	4619.03	4544.99	4521.73	4544.99	4619.03	4630.68	4611.89	4630.68
50.0	4281.06	4300.22	4292.37	4228.09	4210.25	4228.09	4292.37	4300.22	4281.06	4300.22
52.5	3946.35	3969.37	3965.36	3911.88	3905.98	3911.88	3965.36	3969.37	3946.35	3969.37
55.0	3611.16	3635.54	3633.79	3607.51	3623.20	3607.51	3633.79	3635.54	3611.16	3635.54
57.5	3276.78	3308.93	3311.14	3338.61	3375.09	3338.61	3311.14	3308.93	3276.78	3308.93
60.0	2947.37	2988.59	3007.52	3106.99	3164.59	3106.99	3007.52	2988.59	2947.37	2988.59
62.5	2628.37	2673.60	2728.10	2903.27	2970.33	2903.27	2728.10	2673.60	2628.37	2673.60
65.0	2324.20	2373.45	2468.16	2705.85	2770.74	2705.85	2468.16	2373.45	2324.20	2373.45
67.5	2034.46	2091.42	2231.51	2495.89	2556.27	2495.89	2231.51	2091.42	2034.46	2091.42
70.0	1756.85	1825.20	2012.76	2276.07	2326.23	2276.07	2012.76	1825.20	1756.85	1825.20
72.5	1490.66	1571.60	1802.69	2047.19	2086.65	2047.19	1802.69	1571.60	1490.66	1571.60
75.0	1235.82	1329.26	1589.81	1809.50	1846.50	1809.50	1589.81	1329.26	1235.82	1329.26
77.5	990.55	1097.80	1372.29	1569.45	1606.46	1569.45	1372.29	1097.80	990.55	1097.80
80.0	758.37	878.76	1156.89	1340.00	1372.93	1340.00	1156.89	878.76	758.37	878.76
82.5	544.43	677.53	952.03	1123.14	1153.34	1123.14	952.03	677.53	544.43	677.53
85.0	362.15	504.04	764.39	916.91	947.10	916.91	764.39	504.04	362.15	504.04
87.5	228.36	378.14	616.24	747.03	775.09	747.03	616.24	378.14	228.36	378.14
90.0	168.65	289.20	489.84	598.50	623.41	598.50	489.84	289.20	168.65	289.20
92.5	152.93	236.59	393.39	477.25	497.60	477.25	393.39	236.59	152.93	236.59
95.0	145.22	208.42	324.49	386.91	403.95	386.91	324.49	208.42	145.22	208.42
97.5	140.44	189.13	279.33	325.47	338.34	325.47	279.33	189.13	140.44	189.13
100.0	135.81	172.36	249.08	285.42	294.92	285.42	249.08	172.36	135.81	172.36
102.5	129.30	157.52	226.83	259.61	267.08	259.61	226.83	157.52	129.30	157.52
105.0	121.70	145.79	210.69	243.52	250.00	243.52	210.69	145.79	121.70	145.79
107.5	113.35	134.81	197.27	230.45	238.29	230.45	197.27	134.81	113.35	134.81
110.0	103.99	123.88	185.45	219.50	228.22	219.50	185.45	123.88	103.99	123.88
112.5	93.90	112.69	174.11	208.84	218.59	208.84	174.11	112.69	93.90	112.69
115.0	83.50	100.87	162.71	198.02	208.38	198.02	162.71	100.87	83.50	100.87
117.5	74.10	89.00	151.09	187.05	197.92	187.05	151.09	89.00	74.10	89.00
120.0	64.82	77.22	139.70	176.63	187.87	176.63	139.70	77.22	64.82	77.22
122.5	56.58	65.68	128.31	165.37	175.65	165.37	128.31	65.68	56.58	65.68
125.0	48.82	55.26	116.02	152.97	164.10	152.97	116.02	55.26	48.82	55.26
127.5	41.93	44.27	103.25	141.41	153.09	141.41	103.25	44.27	41.93	44.27
130.0	36.18	35.84	90.00	129.35	140.90	129.35	90.00	35.84	36.18	35.84
132.5	31.03	28.97	77.57	116.87	127.86	116.87	77.57	28.97	31.03	28.97

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135.0	26.53	22.91	64.94	104.47	114.74	104.47	64.94	22.91	26.53	22.91
137.5	22.51	18.83	52.41	90.93	101.22	90.93	52.41	18.83	22.51	18.83
140.0	18.84	15.59	40.82	78.11	87.69	78.11	40.82	15.59	18.84	15.59
142.5	15.49	12.92	30.17	64.89	74.12	64.89	30.17	12.92	15.49	12.92
145.0	12.52	10.41	21.64	52.30	61.15	52.30	21.64	10.41	12.52	10.41
147.5	10.06	8.19	14.36	40.80	48.36	40.80	14.36	8.19	10.06	8.19
150.0	8.13	6.69	9.30	30.11	36.92	30.11	9.30	6.69	8.13	6.69
152.5	6.26	5.60	6.95	20.12	26.28	20.12	6.95	5.60	6.26	5.60
155.0	5.27	5.19	5.61	13.20	17.55	13.20	5.61	5.19	5.27	5.19
157.5	5.06	5.27	5.74	8.78	12.20	8.78	5.74	5.27	5.06	5.27
160.0	4.75	5.15	5.61	5.90	7.67	5.90	5.61	5.15	4.75	5.15
162.5	4.90	5.27	5.30	5.50	5.69	5.50	5.30	5.27	4.90	5.27
165.0	4.94	4.97	5.03	5.08	5.34	5.08	5.03	4.97	4.94	4.97
167.5	4.72	5.02	4.80	5.04	5.00	5.04	4.80	5.02	4.72	5.02
170.0	4.89	4.87	4.50	4.62	4.75	4.62	4.50	4.87	4.89	4.87
172.5	5.20	4.95	4.65	4.77	4.94	4.77	4.65	4.95	5.20	4.95
175.0	4.95	5.18	4.82	4.73	5.01	4.73	4.82	5.18	4.95	5.18
177.5	5.24	5.27	4.78	4.81	5.05	4.81	4.78	5.27	5.24	5.27
180.0	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91

**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	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98	7702.98
2.5	7704.31	7709.22	7697.95	7709.22	7704.31	7684.26	7667.04
5.0	7685.57	7699.87	7682.09	7699.87	7685.57	7659.77	7645.70
7.5	7654.07	7668.76	7654.10	7668.76	7654.07	7621.43	7608.73
10.0	7601.71	7626.30	7606.20	7626.30	7601.71	7574.43	7556.74
12.5	7541.84	7552.31	7538.28	7552.31	7541.84	7511.45	7486.39
15.0	7456.93	7461.69	7446.64	7461.69	7456.93	7433.89	7400.10
17.5	7352.76	7349.82	7336.07	7349.82	7352.76	7337.31	7297.70
20.0	7227.95	7218.37	7202.09	7218.37	7227.95	7214.89	7178.86
22.5	7080.92	7072.94	7052.41	7072.94	7080.92	7079.26	7042.63
25.0	6918.74	6898.75	6876.37	6898.75	6918.74	6922.90	6887.36
27.5	6736.73	6705.30	6679.45	6705.30	6736.73	6747.78	6713.42
30.0	6538.34	6494.60	6465.68	6494.60	6538.34	6551.97	6518.17
32.5	6315.45	6255.95	6232.86	6255.95	6315.45	6333.20	6299.32
35.0	6064.80	6003.95	5988.72	6003.95	6064.80	6093.72	6061.52
37.5	5796.70	5749.77	5725.42	5749.77	5796.70	5833.33	5811.62
40.0	5522.11	5479.97	5447.16	5479.97	5522.11	5551.73	5534.91
42.5	5239.14	5183.29	5147.49	5183.29	5239.14	5257.48	5241.65
45.0	4937.26	4866.46	4835.39	4866.46	4937.26	4951.57	4932.83
47.5	4619.03	4544.99	4521.73	4544.99	4619.03	4630.68	4611.89
50.0	4292.37	4228.09	4210.25	4228.09	4292.37	4300.22	4281.06
52.5	3965.36	3911.88	3905.98	3911.88	3965.36	3969.37	3946.35
55.0	3633.79	3607.51	3623.20	3607.51	3633.79	3635.54	3611.16
57.5	3311.14	3338.61	3375.09	3338.61	3311.14	3308.93	3276.78
60.0	3007.52	3106.99	3164.59	3106.99	3007.52	2988.59	2947.37
62.5	2728.10	2903.27	2970.33	2903.27	2728.10	2673.60	2628.37
65.0	2468.16	2705.85	2770.74	2705.85	2468.16	2373.45	2324.20
67.5	2231.51	2495.89	2556.27	2495.89	2231.51	2091.42	2034.46
70.0	2012.76	2276.07	2326.23	2276.07	2012.76	1825.20	1756.85
72.5	1802.69	2047.19	2086.65	2047.19	1802.69	1571.60	1490.66
75.0	1589.81	1809.50	1846.50	1809.50	1589.81	1329.26	1235.82
77.5	1372.29	1569.45	1606.46	1569.45	1372.29	1097.80	990.55
80.0	1156.89	1340.00	1372.93	1340.00	1156.89	878.76	758.37

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CANDELA TABULATION - (Cont.)

82.5	952.03	1123.14	1153.34	1123.14	952.03	677.53	544.43
85.0	764.39	916.91	947.10	916.91	764.39	504.04	362.15
87.5	616.24	747.03	775.09	747.03	616.24	378.14	228.36
90.0	489.84	598.50	623.41	598.50	489.84	289.20	168.65
92.5	393.39	477.25	497.60	477.25	393.39	236.59	152.93
95.0	324.49	386.91	403.95	386.91	324.49	208.42	145.22
97.5	279.33	325.47	338.34	325.47	279.33	189.13	140.44
100.0	249.08	285.42	294.92	285.42	249.08	172.36	135.81
102.5	226.83	259.61	267.08	259.61	226.83	157.52	129.30
105.0	210.69	243.52	250.00	243.52	210.69	145.79	121.70
107.5	197.27	230.45	238.29	230.45	197.27	134.81	113.35
110.0	185.45	219.50	228.22	219.50	185.45	123.88	103.99
112.5	174.11	208.84	218.59	208.84	174.11	112.69	93.90
115.0	162.71	198.02	208.38	198.02	162.71	100.87	83.50
117.5	151.09	187.05	197.92	187.05	151.09	89.00	74.10
120.0	139.70	176.63	187.87	176.63	139.70	77.22	64.82
122.5	128.31	165.37	175.65	165.37	128.31	65.68	56.58
125.0	116.02	152.97	164.10	152.97	116.02	55.26	48.82
127.5	103.25	141.41	153.09	141.41	103.25	44.27	41.93
130.0	90.00	129.35	140.90	129.35	90.00	35.84	36.18
132.5	77.57	116.87	127.86	116.87	77.57	28.97	31.03
135.0	64.94	104.47	114.74	104.47	64.94	22.91	26.53
137.5	52.41	90.93	101.22	90.93	52.41	18.83	22.51
140.0	40.82	78.11	87.69	78.11	40.82	15.59	18.84
142.5	30.17	64.89	74.12	64.89	30.17	12.92	15.49
145.0	21.64	52.30	61.15	52.30	21.64	10.41	12.52
147.5	14.36	40.80	48.36	40.80	14.36	8.19	10.06
150.0	9.30	30.11	36.92	30.11	9.30	6.69	8.13
152.5	6.95	20.12	26.28	20.12	6.95	5.60	6.26
155.0	5.61	13.20	17.55	13.20	5.61	5.19	5.27
157.5	5.74	8.78	12.20	8.78	5.74	5.27	5.06
160.0	5.61	5.90	7.67	5.90	5.61	5.15	4.75
162.5	5.30	5.50	5.69	5.50	5.30	5.27	4.90
165.0	5.03	5.08	5.34	5.08	5.03	4.97	4.94
167.5	4.80	5.04	5.00	5.04	4.80	5.02	4.72
170.0	4.50	4.62	4.75	4.62	4.50	4.87	4.89
172.5	4.65	4.77	4.94	4.77	4.65	4.95	5.20
175.0	4.82	4.73	5.01	4.73	4.82	5.18	4.95
177.5	4.78	4.81	5.05	4.81	4.78	5.27	5.24
180.0	4.91	4.91	4.91	4.91	4.91	4.91	4.91

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2830.68	N.A.	12.50
0-30	6010.8	N.A.	26.50
0-40	9789.92	N.A.	43.20
0-60	16823.84	N.A.	74.20
0-80	20985.35	N.A.	92.60
0-90	21788.58	N.A.	96.10
10-90	21058.35	N.A.	92.90
20-40	6959.24	N.A.	30.70
20-50	10742.33	N.A.	47.40
40-70	9538.36	N.A.	42.10
60-80	4161.51	N.A.	18.40
70-80	1657.08	N.A.	7.30
80-90	803.23	N.A.	3.50
90-110	551.91	N.A.	2.40
90-120	702.94	N.A.	3.10
90-130	800.01	N.A.	3.50
90-150	871.31	N.A.	3.80
90-180	877.98	N.A.	3.90
110-180	326.07	N.A.	1.40
0-180	22666.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	730.24
10-20	2100.44
20-30	3180.12
30-40	3779.12
40-50	3783.09
50-60	3250.83
60-70	2504.44
70-80	1657.08
80-90	803.23
90-100	341.77
100-110	210.14
110-120	151.03
120-130	97.07
130-140	51.51
140-150	19.79
150-160	4.73
160-170	1.47
170-180	0.46

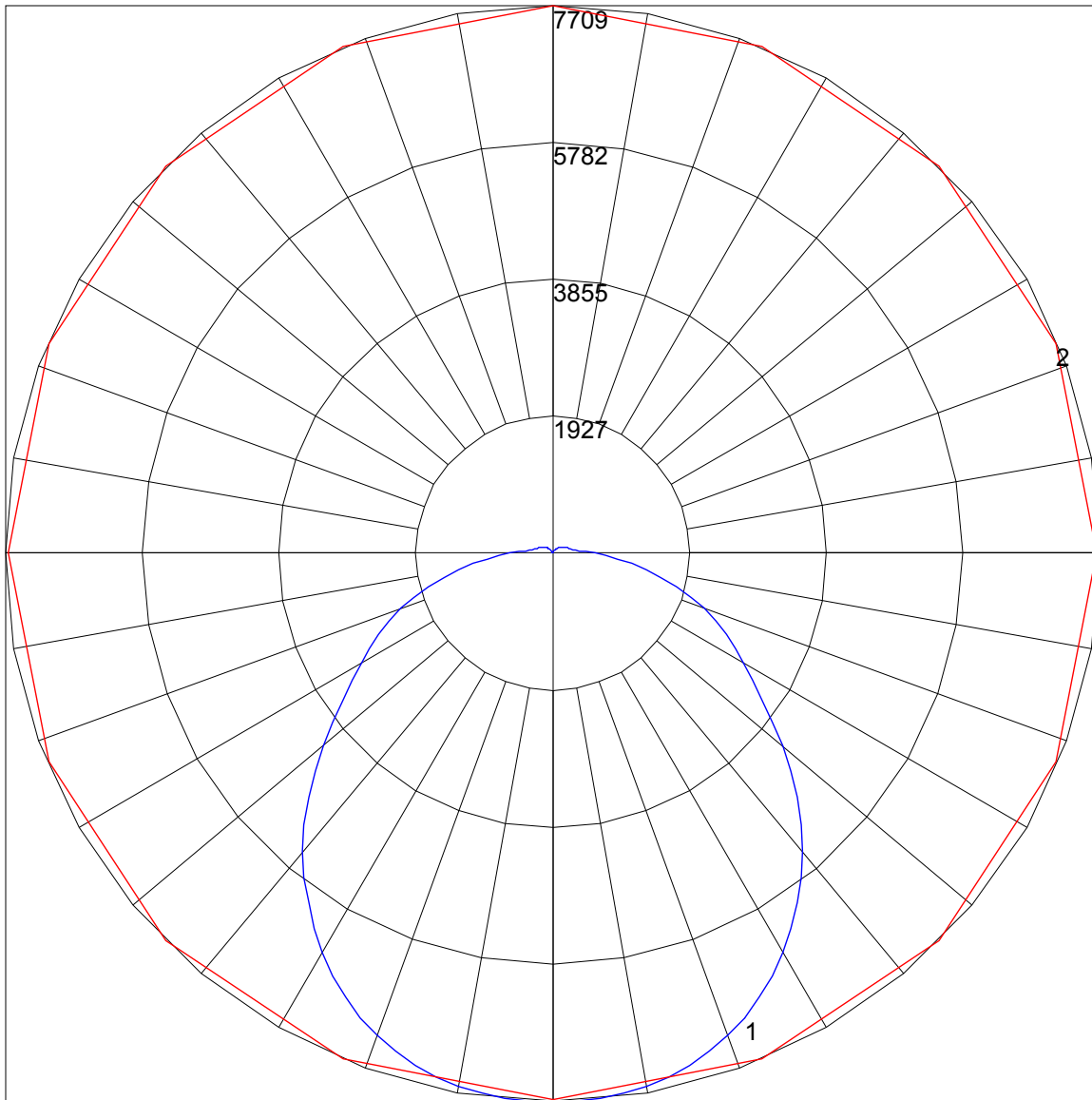
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	99	95	92	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47
5	75	62	53	46	72	61	52	46	58	51	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	29	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 7709.22 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)