

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX24LL40-UNV-LCP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33646.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/13/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-LCP

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

[LAMP] LED. LUMINAIRE OUTPUT = 22533 LMS

[TESTDATE] 10/13/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22533
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	190.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
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	14352	11952	11509
55	13042	10178	7243
65	10689	5146	7413
75	6822	5919	4971
85	2625	3330	2938

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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	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23
2.5	7550.46	7569.65	7589.60	7595.56	7578.81	7595.56	7589.60	7569.65	7550.46	7569.65
5.0	7526.92	7542.97	7576.35	7590.37	7575.59	7590.37	7576.35	7542.97	7526.92	7542.97
7.5	7499.97	7510.31	7553.30	7572.28	7556.31	7572.28	7553.30	7510.31	7499.97	7510.31
10.0	7454.55	7474.30	7513.79	7539.48	7516.23	7539.48	7513.79	7474.30	7454.55	7474.30
12.5	7395.84	7426.77	7467.95	7472.11	7469.62	7472.11	7467.95	7426.77	7395.84	7426.77
15.0	7322.96	7364.29	7400.49	7410.33	7407.86	7410.33	7400.49	7364.29	7322.96	7364.29
17.5	7239.76	7286.26	7309.74	7317.05	7313.45	7317.05	7309.74	7286.26	7239.76	7286.26
20.0	7142.98	7187.97	7206.84	7215.11	7201.16	7215.11	7206.84	7187.97	7142.98	7187.97
22.5	7033.85	7081.65	7087.16	7093.53	7089.24	7093.53	7087.16	7081.65	7033.85	7081.65
25.0	6909.27	6959.40	6962.55	6964.95	6956.29	6964.95	6962.55	6959.40	6909.27	6959.40
27.5	6770.68	6813.87	6814.54	6812.30	6796.37	6812.30	6814.54	6813.87	6770.68	6813.87
30.0	6617.84	6654.24	6665.91	6662.69	6638.52	6662.69	6665.91	6654.24	6617.84	6654.24
32.5	6453.02	6493.22	6488.18	6470.51	6476.30	6470.51	6488.18	6493.22	6453.02	6493.22
35.0	6250.89	6305.89	6291.09	6328.23	6310.04	6328.23	6291.09	6305.89	6250.89	6305.89
37.5	6034.36	6093.90	6075.22	6145.67	6118.85	6145.67	6075.22	6093.90	6034.36	6093.90
40.0	5818.91	5861.09	5868.61	5965.20	5910.52	5965.20	5868.61	5861.09	5818.91	5861.09
42.5	5558.51	5601.91	5671.99	5716.80	5729.68	5716.80	5671.99	5601.91	5558.51	5601.91
45.0	5288.83	5339.94	5461.84	5445.41	5421.73	5445.41	5461.84	5339.94	5288.83	5339.94
47.5	5015.39	5048.68	5190.86	5159.40	5205.10	5159.40	5190.86	5048.68	5015.39	5048.68
50.0	4711.68	4753.65	4848.15	4938.65	4343.50	4938.65	4848.15	4753.65	4711.68	4753.65
52.5	4398.41	4465.00	4548.53	4081.64	4134.36	4081.64	4548.53	4465.00	4398.41	4465.00
55.0	4072.55	4155.86	4221.37	3763.80	3122.51	3763.80	4221.37	4155.86	4072.55	4155.86
57.5	3730.61	3796.77	3904.10	2633.65	2989.19	2633.65	3904.10	3796.77	3730.61	3796.77
60.0	3373.74	3426.14	3161.16	2802.22	2554.11	2802.22	3161.16	3426.14	3373.74	3426.14
62.5	3004.28	3061.41	2253.61	2332.65	2681.84	2332.65	2253.61	3061.41	3004.28	3061.41
65.0	2635.41	2694.55	1852.29	2723.42	2802.42	2723.42	1852.29	2694.55	2635.41	2694.55
67.5	2257.11	2325.46	1468.28	2583.57	2824.43	2583.57	1468.28	2325.46	2257.11	2325.46
70.0	1886.24	1971.85	1582.97	2371.21	2499.30	2371.21	1582.97	1971.85	1886.24	1971.85
72.5	1525.36	1473.29	1816.60	2188.45	1829.42	2188.45	1816.60	1473.29	1525.36	1473.29
75.0	1182.54	906.12	1741.25	1462.94	1558.27	1462.94	1741.25	906.12	1182.54	906.12
77.5	867.60	606.00	1341.11	1327.95	1304.58	1327.95	1341.11	606.00	867.60	606.00
80.0	600.56	466.05	1064.10	1036.83	1035.56	1036.83	1064.10	466.05	600.56	466.05
82.5	393.98	400.67	727.54	834.64	865.02	834.64	727.54	400.67	393.98	400.67
85.0	249.07	443.60	730.98	691.35	703.35	691.35	730.98	443.60	249.07	443.60
87.5	162.07	383.27	506.10	550.89	512.20	550.89	506.10	383.27	162.07	383.27
90.0	103.82	264.70	376.51	350.25	377.99	350.25	376.51	264.70	103.82	264.70
92.5	86.12	185.43	187.68	214.74	245.82	214.74	187.68	185.43	86.12	185.43
95.0	99.36	113.36	94.59	111.53	121.82	111.53	94.59	113.36	99.36	113.36
97.5	123.26	68.41	78.80	93.80	92.03	93.80	78.80	68.41	123.26	68.41
100.0	132.38	66.90	76.93	88.04	88.19	88.04	76.93	66.90	132.38	66.90
102.5	128.60	65.11	71.72	82.27	86.10	82.27	71.72	65.11	128.60	65.11
105.0	118.88	68.11	54.82	65.09	72.12	65.09	54.82	68.11	118.88	68.11
107.5	106.53	69.86	46.30	49.39	52.97	49.39	46.30	69.86	106.53	69.86
110.0	93.62	68.20	42.67	42.96	45.18	42.96	68.20	93.62	68.20	68.20
112.5	81.20	62.92	39.85	38.82	40.62	38.82	39.85	62.92	81.20	62.92
115.0	69.88	56.51	37.50	34.81	36.90	34.81	37.50	56.51	69.88	56.51
117.5	60.33	52.31	34.90	31.29	33.00	31.29	34.90	52.31	60.33	52.31
120.0	51.98	54.57	33.63	28.45	29.55	28.45	33.63	54.57	51.98	54.57
122.5	44.50	56.76	35.90	26.81	27.28	26.81	35.90	56.76	44.50	56.76
125.0	37.50	44.22	57.48	26.50	26.41	26.50	57.48	44.22	37.50	44.22
127.5	31.13	30.68	86.26	38.88	31.68	38.88	86.26	30.68	31.13	30.68
130.0	26.26	24.08	91.97	89.44	74.59	89.44	91.97	24.08	26.26	24.08
132.5	21.63	20.18	77.34	94.98	105.65	94.98	77.34	20.18	21.63	20.18

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CANDELA TABULATION - (Cont.)

135.0	17.67	16.15	31.15	91.23	61.40	91.23	31.15	16.15	17.67	16.15
137.5	14.20	13.15	17.92	103.95	100.59	103.95	17.92	13.15	14.20	13.15
140.0	11.61	11.09	12.77	38.51	83.64	38.51	12.77	11.09	11.61	11.09
142.5	9.40	8.46	9.90	19.20	28.88	19.20	9.90	8.46	9.40	8.46
145.0	7.99	7.59	7.93	13.91	17.07	13.91	7.93	7.59	7.99	7.59
147.5	6.58	6.07	6.35	10.82	12.69	10.82	6.35	6.07	6.58	6.07
150.0	5.46	5.20	5.97	8.90	10.28	8.90	5.97	5.20	5.46	5.20
152.5	4.92	5.11	5.67	7.59	8.40	7.59	5.67	5.11	4.92	5.11
155.0	4.97	5.01	5.54	6.57	7.40	6.57	5.54	5.01	4.97	5.01
157.5	4.61	4.80	5.31	5.84	6.60	5.84	5.31	4.80	4.61	4.80
160.0	4.85	4.79	5.01	5.50	5.70	5.50	5.01	4.79	4.85	4.79
162.5	4.84	4.51	5.19	5.14	5.54	5.14	5.19	4.51	4.84	4.51
165.0	4.85	4.79	5.09	5.23	5.38	5.23	5.09	4.79	4.85	4.79
167.5	4.36	4.85	4.86	5.21	5.03	5.21	4.86	4.85	4.36	4.85
170.0	4.50	4.55	4.76	4.93	5.06	4.93	4.76	4.55	4.50	4.55
172.5	4.98	4.95	4.86	5.12	5.03	5.12	4.86	4.95	4.98	4.95
175.0	4.57	5.02	5.00	5.19	5.20	5.19	5.00	5.02	4.57	5.02
177.5	4.93	5.26	5.06	5.14	5.15	5.14	5.06	5.26	4.93	5.26
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	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23	7590.23
2.5	7589.60	7595.56	7578.81	7595.56	7589.60	7569.65	7550.46
5.0	7576.35	7590.37	7575.59	7590.37	7576.35	7542.97	7526.92
7.5	7553.30	7572.28	7556.31	7572.28	7553.30	7510.31	7499.97
10.0	7513.79	7539.48	7516.23	7539.48	7513.79	7474.30	7454.55
12.5	7467.95	7472.11	7469.62	7472.11	7467.95	7426.77	7395.84
15.0	7400.49	7410.33	7407.86	7410.33	7400.49	7364.29	7322.96
17.5	7309.74	7317.05	7313.45	7317.05	7309.74	7286.26	7239.76
20.0	7206.84	7215.11	7201.16	7215.11	7206.84	7187.97	7142.98
22.5	7087.16	7093.53	7089.24	7093.53	7087.16	7081.65	7033.85
25.0	6962.55	6964.95	6956.29	6964.95	6962.55	6959.40	6909.27
27.5	6814.54	6812.30	6796.37	6812.30	6814.54	6813.87	6770.68
30.0	6665.91	6662.69	6638.52	6662.69	6665.91	6654.24	6617.84
32.5	6488.18	6470.51	6476.30	6470.51	6488.18	6493.22	6453.02
35.0	6291.09	6328.23	6310.04	6328.23	6291.09	6305.89	6250.89
37.5	6075.22	6145.67	6118.85	6145.67	6075.22	6093.90	6034.36
40.0	5868.61	5965.20	5910.52	5965.20	5868.61	5861.09	5818.91
42.5	5671.99	5716.80	5729.68	5716.80	5671.99	5601.91	5558.51
45.0	5461.84	5445.41	5421.73	5445.41	5461.84	5339.94	5288.83
47.5	5190.86	5159.40	5205.10	5159.40	5190.86	5048.68	5015.39
50.0	4848.15	4938.65	4343.50	4938.65	4848.15	4753.65	4711.68
52.5	4548.53	4081.64	4134.36	4081.64	4548.53	4465.00	4398.41
55.0	4221.37	3763.80	3122.51	3763.80	4221.37	4155.86	4072.55
57.5	3904.10	2633.65	2989.19	2633.65	3904.10	3796.77	3730.61
60.0	3161.16	2802.22	2554.11	2802.22	3161.16	3426.14	3373.74
62.5	2253.61	2332.65	2681.84	2332.65	2253.61	3061.41	3004.28
65.0	1852.29	2723.42	2802.42	2723.42	1852.29	2694.55	2635.41
67.5	1468.28	2583.57	2824.43	2583.57	1468.28	2325.46	2257.11
70.0	1582.97	2371.21	2499.30	2371.21	1582.97	1971.85	1886.24
72.5	1816.60	2188.45	1829.42	2188.45	1816.60	1473.29	1525.36
75.0	1741.25	1462.94	1558.27	1462.94	1741.25	906.12	1182.54
77.5	1341.11	1327.95	1304.58	1327.95	1341.11	606.00	867.60
80.0	1064.10	1036.83	1035.56	1036.83	1064.10	466.05	600.56

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CANDELA TABULATION - (Cont.)

82.5	727.54	834.64	865.02	834.64	727.54	400.67	393.98
85.0	730.98	691.35	703.35	691.35	730.98	443.60	249.07
87.5	506.10	550.89	512.20	550.89	506.10	383.27	162.07
90.0	376.51	350.25	377.99	350.25	376.51	264.70	103.82
92.5	187.68	214.74	245.82	214.74	187.68	185.43	86.12
95.0	94.59	111.53	121.82	111.53	94.59	113.36	99.36
97.5	78.80	93.80	92.03	93.80	78.80	68.41	123.26
100.0	76.93	88.04	88.19	88.04	76.93	66.90	132.38
102.5	71.72	82.27	86.10	82.27	71.72	65.11	128.60
105.0	54.82	65.09	72.12	65.09	54.82	68.11	118.88
107.5	46.30	49.39	52.97	49.39	46.30	69.86	106.53
110.0	42.67	42.96	45.18	42.96	42.67	68.20	93.62
112.5	39.85	38.82	40.62	38.82	39.85	62.92	81.20
115.0	37.50	34.81	36.90	34.81	37.50	56.51	69.88
117.5	34.90	31.29	33.00	31.29	34.90	52.31	60.33
120.0	33.63	28.45	29.55	28.45	33.63	54.57	51.98
122.5	35.90	26.81	27.28	26.81	35.90	56.76	44.50
125.0	57.48	26.50	26.41	26.50	57.48	44.22	37.50
127.5	86.26	38.88	31.68	38.88	86.26	30.68	31.13
130.0	91.97	89.44	74.59	89.44	91.97	24.08	26.26
132.5	77.34	94.98	105.65	94.98	77.34	20.18	21.63
135.0	31.15	91.23	61.40	91.23	31.15	16.15	17.67
137.5	17.92	103.95	100.59	103.95	17.92	13.15	14.20
140.0	12.77	38.51	83.64	38.51	12.77	11.09	11.61
142.5	9.90	19.20	28.88	19.20	9.90	8.46	9.40
145.0	7.93	13.91	17.07	13.91	7.93	7.59	7.99
147.5	6.35	10.82	12.69	10.82	6.35	6.07	6.58
150.0	5.97	8.90	10.28	8.90	5.97	5.20	5.46
152.5	5.67	7.59	8.40	7.59	5.67	5.11	4.92
155.0	5.54	6.57	7.40	6.57	5.54	5.01	4.97
157.5	5.31	5.84	6.60	5.84	5.31	4.80	4.61
160.0	5.01	5.50	5.70	5.50	5.01	4.79	4.85
162.5	5.19	5.14	5.54	5.14	5.19	4.51	4.84
165.0	5.09	5.23	5.38	5.23	5.09	4.79	4.85
167.5	4.86	5.21	5.03	5.21	4.86	4.85	4.36
170.0	4.76	4.93	5.06	4.93	4.76	4.55	4.50
172.5	4.86	5.12	5.03	5.12	4.86	4.95	4.98
175.0	5.00	5.19	5.20	5.19	5.00	5.02	4.57
177.5	5.06	5.14	5.15	5.14	5.06	5.26	4.93
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	2805.09	N.A.	12.40
0-30	6010.69	N.A.	26.70
0-40	9951.12	N.A.	44.20
0-60	17595.00	N.A.	78.10
0-80	21547.09	N.A.	95.60
0-90	22161.59	N.A.	98.40
10-90	21441.35	N.A.	95.20
20-40	7146.03	N.A.	31.70
20-50	11299.99	N.A.	50.10
40-70	10096.71	N.A.	44.80
60-80	3952.09	N.A.	17.50
70-80	1499.26	N.A.	6.70
80-90	614.50	N.A.	2.70
90-110	233.82	N.A.	1.00
90-120	279.85	N.A.	1.20
90-130	319.44	N.A.	1.40
90-150	367.08	N.A.	1.60
90-180	371.71	N.A.	1.60
110-180	137.89	N.A.	0.60
0-180	22533.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	720.23
10-20	2084.85
20-30	3205.6
30-40	3940.43
40-50	4153.97
50-60	3489.91
60-70	2452.83
70-80	1499.26
80-90	614.50
90-100	158.45
100-110	75.37
110-120	46.03
120-130	39.59
130-140	39.55
140-150	8.08
150-160	2.75
160-170	1.42
170-180	0.47

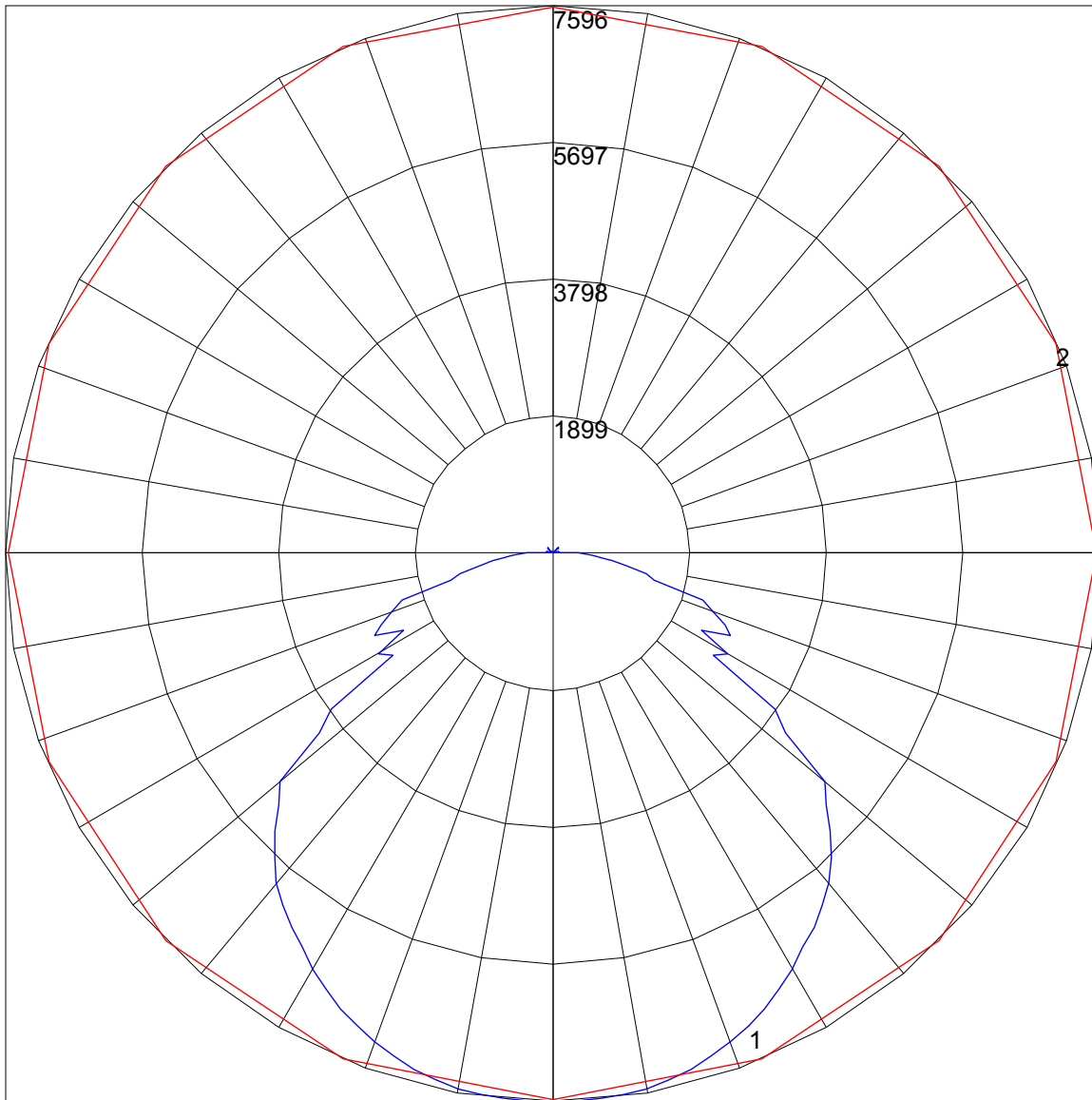
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	71	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	58
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	45	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	38	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 = 7595.56 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.)