

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

IESNA:LM-63-2002

[TEST] FO33644.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/13/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV

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

[LAMP] LED. LUMINAIRE OUTPUT = 23441 LMS

[TESTDATE] 10/13/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	190.7
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	14756	12138	11904
55	13529	10810	7425
65	11329	5547	7434
75	7512	6659	4812
85	3046	3054	3645

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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	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76
2.5	7716.24	7735.01	7759.68	7767.06	7737.74	7767.06	7759.68	7735.01	7716.24	7735.01
5.0	7699.08	7711.25	7748.85	7761.84	7748.41	7761.84	7748.85	7711.25	7699.08	7711.25
7.5	7668.35	7679.68	7725.16	7746.41	7732.51	7746.41	7725.16	7679.68	7668.35	7679.68
10.0	7622.07	7641.82	7681.31	7715.34	7701.30	7715.34	7681.31	7641.82	7622.07	7641.82
12.5	7560.38	7589.81	7639.18	7659.26	7660.20	7659.26	7639.18	7589.81	7560.38	7589.81
15.0	7484.51	7528.02	7571.49	7586.14	7579.01	7586.14	7571.49	7528.02	7484.51	7528.02
17.5	7401.48	7443.41	7482.27	7505.86	7499.14	7505.86	7482.27	7443.41	7401.48	7443.41
20.0	7296.18	7340.39	7382.93	7408.94	7399.18	7408.94	7382.93	7340.39	7296.18	7340.39
22.5	7177.43	7226.66	7260.23	7275.64	7264.80	7275.64	7260.23	7226.66	7177.43	7226.66
25.0	7048.83	7098.83	7131.14	7124.24	7129.26	7124.24	7131.14	7098.83	7048.83	7098.83
27.5	6895.60	6953.65	6964.63	6967.64	6956.43	6967.64	6964.63	6953.65	6895.60	6953.65
30.0	6736.13	6793.10	6807.16	6813.28	6800.21	6813.28	6807.16	6793.10	6736.13	6793.10
32.5	6558.72	6622.86	6622.19	6629.64	6630.11	6629.64	6622.19	6622.86	6558.72	6622.86
35.0	6378.70	6425.09	6437.73	6444.40	6425.43	6444.40	6437.73	6425.09	6378.70	6425.09
37.5	6160.94	6218.10	6226.76	6238.35	6214.88	6238.35	6226.76	6218.10	6160.94	6218.10
40.0	5937.26	5983.81	6010.85	6019.26	6038.39	6019.26	6010.85	5983.81	5937.26	5983.81
42.5	5716.15	5743.95	5791.52	5829.61	5873.28	5829.61	5791.52	5743.95	5716.15	5743.95
45.0	5437.53	5497.90	5546.83	5638.72	5607.82	5638.72	5546.83	5497.90	5437.53	5497.90
47.5	5174.82	5216.60	5270.58	5445.11	5516.65	5445.11	5270.58	5216.60	5174.82	5216.60
50.0	4857.97	4915.66	5030.80	5193.16	4686.90	5193.16	5030.80	4915.66	4857.97	4915.66
52.5	4570.69	4610.61	4818.35	4392.82	4225.90	4392.82	4818.35	4610.61	4570.69	4610.61
55.0	4224.68	4285.98	4483.48	3811.23	3201.14	3811.23	4483.48	4285.98	4224.68	4285.98
57.5	3887.70	3956.98	4132.47	2811.22	3260.20	2811.22	4132.47	3956.98	3887.70	3956.98
60.0	3539.24	3615.23	3390.72	2816.54	2616.16	2816.54	3390.72	3615.23	3539.24	3615.23
62.5	3173.38	3288.61	2508.59	2436.72	2937.78	2436.72	2508.59	3288.61	3173.38	3288.61
65.0	2793.27	2958.16	1996.68	3078.40	2810.20	3078.40	1996.68	2958.16	2793.27	2958.16
67.5	2406.51	2536.81	1766.38	2534.34	2951.14	2534.34	1766.38	2536.81	2406.51	2536.81
70.0	2028.42	2163.68	1710.16	2556.16	2575.11	2556.16	1710.16	2163.68	2028.42	2163.68
72.5	1655.93	1651.41	2016.91	2074.36	1959.97	2074.36	2016.91	1651.41	1655.93	1651.41
75.0	1302.16	1048.13	1958.93	1624.23	1508.48	1624.23	1958.93	1048.13	1302.16	1048.13
77.5	975.62	711.76	1354.51	1483.29	1299.43	1483.29	1354.51	711.76	975.62	711.76
80.0	692.61	558.18	1079.46	1185.80	1049.84	1185.80	1079.46	558.18	692.61	558.18
82.5	464.90	507.65	778.37	923.52	899.17	923.52	778.37	507.65	464.90	507.65
85.0	288.94	482.00	670.37	864.74	872.54	864.74	670.37	482.00	288.94	482.00
87.5	172.75	387.00	524.35	527.20	501.30	527.20	524.35	387.00	172.75	387.00
90.0	83.94	244.14	331.80	335.17	364.14	335.17	331.80	244.14	83.94	244.14
92.5	72.84	189.85	175.81	190.07	206.13	190.07	175.81	189.85	72.84	189.85
95.0	100.21	102.58	113.13	130.63	135.58	130.63	113.13	102.58	100.21	102.58
97.5	148.75	81.52	110.95	126.98	130.51	126.98	110.95	81.52	148.75	81.52
100.0	153.92	80.39	105.13	120.79	125.26	120.79	105.13	80.39	153.92	80.39
102.5	145.82	75.55	89.34	104.14	108.54	104.14	89.34	75.55	145.82	75.55
105.0	129.62	81.26	81.51	90.75	94.73	90.75	81.51	81.26	129.62	81.26
107.5	112.24	89.78	77.86	86.43	89.18	86.43	77.86	89.78	112.24	89.78
110.0	95.30	87.09	74.39	83.78	86.21	83.78	74.39	87.09	95.30	87.09
112.5	80.96	78.04	72.41	79.43	83.41	79.43	72.41	78.04	80.96	78.04
115.0	68.11	68.76	69.85	74.72	78.66	74.72	69.85	68.76	68.11	68.76
117.5	58.09	66.82	65.47	69.56	73.89	69.56	65.47	66.82	58.09	66.82
120.0	49.66	63.49	61.05	64.81	68.64	64.81	61.05	63.49	49.66	63.49
122.5	42.31	56.31	59.59	59.40	63.56	59.40	59.59	56.31	42.31	56.31
125.0	35.74	42.08	81.49	55.65	58.70	55.65	81.49	42.08	35.74	42.08
127.5	30.28	33.36	85.28	59.83	57.44	59.83	85.28	33.36	30.28	33.36
130.0	25.84	26.99	81.40	97.30	74.10	97.30	81.40	26.99	25.84	26.99
132.5	21.86	22.39	62.36	83.08	113.10	83.08	62.36	22.39	21.86	22.39

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CANDELA TABULATION - (Cont.)

135.0	18.47	18.32	36.20	72.19	51.52	72.19	36.20	18.32	18.47	18.32
137.5	15.45	15.53	26.66	88.10	80.77	88.10	26.66	15.53	15.45	15.53
140.0	12.67	12.94	20.35	41.82	79.01	41.82	20.35	12.94	12.67	12.94
142.5	10.64	10.65	15.47	29.21	37.40	29.21	15.47	10.65	10.64	10.65
145.0	9.05	8.91	11.97	23.15	27.85	23.15	11.97	8.91	9.05	8.91
147.5	7.57	7.54	9.21	18.47	21.98	18.47	9.21	7.54	7.57	7.54
150.0	6.45	6.20	7.27	15.13	17.82	15.13	7.27	6.20	6.45	6.20
152.5	5.66	5.42	6.21	11.39	14.01	11.39	6.21	5.42	5.66	5.42
155.0	4.71	4.85	5.78	8.78	10.43	8.78	5.78	4.85	4.71	4.85
157.5	4.62	4.90	5.48	7.16	8.57	7.16	5.48	4.90	4.62	4.90
160.0	4.61	4.80	5.13	5.72	6.73	5.72	5.13	4.80	4.61	4.80
162.5	4.66	4.81	5.20	5.48	5.71	5.48	5.20	4.81	4.66	4.81
165.0	4.50	4.88	5.06	5.16	5.36	5.16	5.06	4.88	4.50	4.88
167.5	4.64	4.67	4.78	5.07	5.00	5.07	4.78	4.67	4.64	4.67
170.0	4.62	4.66	4.69	4.99	4.88	4.99	4.69	4.66	4.62	4.66
172.5	4.83	4.78	4.91	5.09	4.92	5.09	4.91	4.78	4.83	4.78
175.0	4.72	5.07	4.95	5.08	4.90	5.08	4.95	5.07	4.72	5.07
177.5	4.91	5.03	4.87	5.01	4.86	5.01	4.87	5.03	4.91	5.03
180.0	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82

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	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76	7752.76
2.5	7759.68	7767.06	7737.74	7767.06	7759.68	7735.01	7716.24
5.0	7748.85	7761.84	7748.41	7761.84	7748.85	7711.25	7699.08
7.5	7725.16	7746.41	7732.51	7746.41	7725.16	7679.68	7668.35
10.0	7681.31	7715.34	7701.30	7715.34	7681.31	7641.82	7622.07
12.5	7639.18	7659.26	7660.20	7659.26	7639.18	7589.81	7560.38
15.0	7571.49	7586.14	7579.01	7586.14	7571.49	7528.02	7484.51
17.5	7482.27	7505.86	7499.14	7505.86	7482.27	7443.41	7401.48
20.0	7382.93	7408.94	7399.18	7408.94	7382.93	7340.39	7296.18
22.5	7260.23	7275.64	7264.80	7275.64	7260.23	7226.66	7177.43
25.0	7131.14	7124.24	7129.26	7124.24	7131.14	7098.83	7048.83
27.5	6964.63	6967.64	6956.43	6967.64	6964.63	6953.65	6895.60
30.0	6807.16	6813.28	6800.21	6813.28	6807.16	6793.10	6736.13
32.5	6622.19	6629.64	6630.11	6629.64	6622.19	6622.86	6558.72
35.0	6437.73	6444.40	6425.43	6444.40	6437.73	6425.09	6378.70
37.5	6226.76	6238.35	6214.88	6238.35	6226.76	6218.10	6160.94
40.0	6010.85	6019.26	6038.39	6019.26	6010.85	5983.81	5937.26
42.5	5791.52	5829.61	5873.28	5829.61	5791.52	5743.95	5716.15
45.0	5546.83	5638.72	5607.82	5638.72	5546.83	5497.90	5437.53
47.5	5270.58	5445.11	5516.65	5445.11	5270.58	5216.60	5174.82
50.0	5030.80	5193.16	4686.90	5193.16	5030.80	4915.66	4857.97
52.5	4818.35	4392.82	4225.90	4392.82	4818.35	4610.61	4570.69
55.0	4483.48	3811.23	3201.14	3811.23	4483.48	4285.98	4224.68
57.5	4132.47	2811.22	3260.20	2811.22	4132.47	3956.98	3887.70
60.0	3390.72	2816.54	2616.16	2816.54	3390.72	3615.23	3539.24
62.5	2508.59	2436.72	2937.78	2436.72	2508.59	3288.61	3173.38
65.0	1996.68	3078.40	2810.20	3078.40	1996.68	2958.16	2793.27
67.5	1766.38	2534.34	2951.14	2534.34	1766.38	2536.81	2406.51
70.0	1710.16	2556.16	2575.11	2556.16	1710.16	2163.68	2028.42
72.5	2016.91	2074.36	1959.97	2074.36	2016.91	1651.41	1655.93
75.0	1958.93	1624.23	1508.48	1624.23	1958.93	1048.13	1302.16
77.5	1354.51	1483.29	1299.43	1483.29	1354.51	711.76	975.62
80.0	1079.46	1185.80	1049.84	1185.80	1079.46	558.18	692.61

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CANDELA TABULATION - (Cont.)

82.5	778.37	923.52	899.17	923.52	778.37	507.65	464.90
85.0	670.37	864.74	872.54	864.74	670.37	482.00	288.94
87.5	524.35	527.20	501.30	527.20	524.35	387.00	172.75
90.0	331.80	335.17	364.14	335.17	331.80	244.14	83.94
92.5	175.81	190.07	206.13	190.07	175.81	189.85	72.84
95.0	113.13	130.63	135.58	130.63	113.13	102.58	100.21
97.5	110.95	126.98	130.51	126.98	110.95	81.52	148.75
100.0	105.13	120.79	125.26	120.79	105.13	80.39	153.92
102.5	89.34	104.14	108.54	104.14	89.34	75.55	145.82
105.0	81.51	90.75	94.73	90.75	81.51	81.26	129.62
107.5	77.86	86.43	89.18	86.43	77.86	89.78	112.24
110.0	74.39	83.78	86.21	83.78	74.39	87.09	95.30
112.5	72.41	79.43	83.41	79.43	72.41	78.04	80.96
115.0	69.85	74.72	78.66	74.72	69.85	68.76	68.11
117.5	65.47	69.56	73.89	69.56	65.47	66.82	58.09
120.0	61.05	64.81	68.64	64.81	61.05	63.49	49.66
122.5	59.59	59.40	63.56	59.40	59.59	56.31	42.31
125.0	81.49	55.65	58.70	55.65	81.49	42.08	35.74
127.5	85.28	59.83	57.44	59.83	85.28	33.36	30.28
130.0	81.40	97.30	74.10	97.30	81.40	26.99	25.84
132.5	62.36	83.08	113.10	83.08	62.36	22.39	21.86
135.0	36.20	72.19	51.52	72.19	36.20	18.32	18.47
137.5	26.66	88.10	80.77	88.10	26.66	15.53	15.45
140.0	20.35	41.82	79.01	41.82	20.35	12.94	12.67
142.5	15.47	29.21	37.40	29.21	15.47	10.65	10.64
145.0	11.97	23.15	27.85	23.15	11.97	8.91	9.05
147.5	9.21	18.47	21.98	18.47	9.21	7.54	7.57
150.0	7.27	15.13	17.82	15.13	7.27	6.20	6.45
152.5	6.21	11.39	14.01	11.39	6.21	5.42	5.66
155.0	5.78	8.78	10.43	8.78	5.78	4.85	4.71
157.5	5.48	7.16	8.57	7.16	5.48	4.90	4.62
160.0	5.13	5.72	6.73	5.72	5.13	4.80	4.61
162.5	5.20	5.48	5.71	5.48	5.20	4.81	4.66
165.0	5.06	5.16	5.36	5.16	5.06	4.88	4.50
167.5	4.78	5.07	5.00	5.07	4.78	4.67	4.64
170.0	4.69	4.99	4.88	4.99	4.69	4.66	4.62
172.5	4.91	5.09	4.92	5.09	4.91	4.78	4.83
175.0	4.95	5.08	4.90	5.08	4.95	5.07	4.72
177.5	4.87	5.01	4.86	5.01	4.87	5.03	4.91
180.0	4.82	4.82	4.82	4.82	4.82	4.82	4.82

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2870.31	N.A.	12.20
0-30	6147.93	N.A.	26.20
0-40	10168.13	N.A.	43.40
0-60	18097.61	N.A.	77.20
0-80	22339.34	N.A.	95.30
0-90	22998.65	N.A.	98.10
10-90	22262.11	N.A.	95.00
20-40	7297.82	N.A.	31.10
20-50	11575.91	N.A.	49.40
40-70	10557.25	N.A.	45.00
60-80	4241.73	N.A.	18.10
70-80	1613.96	N.A.	6.90
80-90	659.31	N.A.	2.80
90-110	264.23	N.A.	1.10
90-120	336.26	N.A.	1.40
90-130	388.36	N.A.	1.70
90-150	436.58	N.A.	1.90
90-180	441.87	N.A.	1.90
110-180	177.64	N.A.	0.80
0-180	23440.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	736.54
10-20	2133.77
20-30	3277.62
30-40	4020.2
40-50	4278.09
50-60	3651.39
60-70	2627.77
70-80	1613.96
80-90	659.31
90-100	164.45
100-110	99.78
110-120	72.03
120-130	52.10
130-140	37.30
140-150	10.92
150-160	3.39
160-170	1.43
170-180	0.47

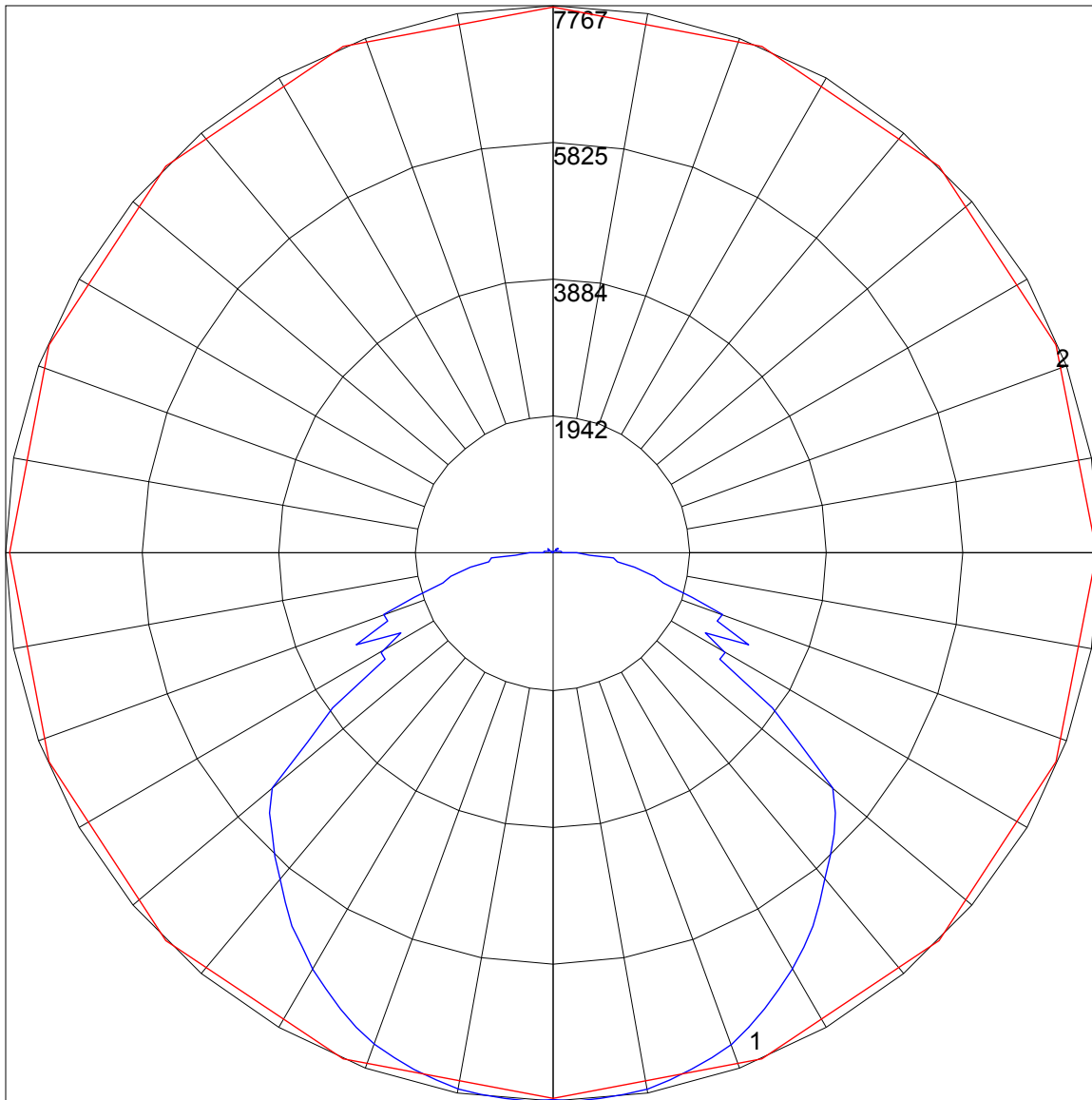
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	56	50	45	54	49	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	41	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 7767.06 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.)