

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-W-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33969.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/23/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX12LL40-UNV-W-LFA

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER WIDE OPTICS NO RESISTOR DIRA-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 10119 LMS

[TESTDATE] 12/23/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10119
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	95.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5367	4672	4698
55	4549	3790	3876
65	3655	2901	3130
75	2598	2012	2284
85	1098	1110	1474

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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	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13
2.5	3422.62	3424.37	3431.87	3431.55	3427.66	3431.55	3431.87	3424.37	3422.62	3424.37
5.0	3420.39	3421.04	3429.88	3432.13	3426.78	3432.13	3429.88	3421.04	3420.39	3421.04
7.5	3414.86	3414.37	3423.98	3428.77	3425.19	3428.77	3423.98	3414.37	3414.86	3414.37
10.0	3404.09	3405.70	3414.55	3423.89	3419.24	3423.89	3414.55	3405.70	3404.09	3405.70
12.5	3387.19	3391.19	3401.99	3408.92	3407.10	3408.92	3401.99	3391.19	3387.19	3391.19
15.0	3362.81	3369.58	3382.45	3389.03	3386.96	3389.03	3382.45	3369.58	3362.81	3369.58
17.5	3327.68	3338.18	3352.52	3361.48	3360.73	3361.48	3352.52	3338.18	3327.68	3338.18
20.0	3280.42	3294.24	3312.87	3323.45	3325.50	3323.45	3312.87	3294.24	3280.42	3294.24
22.5	3220.98	3236.17	3260.70	3278.32	3282.48	3278.32	3260.70	3236.17	3220.98	3236.17
25.0	3147.52	3165.50	3195.59	3219.68	3225.75	3219.68	3195.59	3165.50	3147.52	3165.50
27.5	3059.45	3080.07	3119.02	3148.65	3154.31	3148.65	3119.02	3080.07	3059.45	3080.07
30.0	2956.56	2981.24	3031.20	3065.15	3071.18	3065.15	3031.20	2981.24	2956.56	2981.24
32.5	2841.40	2871.84	2929.73	2966.09	2976.86	2966.09	2929.73	2871.84	2841.40	2871.84
35.0	2716.19	2751.25	2812.50	2855.01	2871.75	2855.01	2812.50	2751.25	2716.19	2751.25
37.5	2585.04	2620.85	2686.41	2738.60	2754.69	2738.60	2686.41	2620.85	2585.04	2620.85
40.0	2445.32	2482.73	2555.78	2614.06	2626.81	2614.06	2555.78	2482.73	2445.32	2482.73
42.5	2299.33	2340.10	2420.09	2475.70	2489.86	2475.70	2420.09	2340.10	2299.33	2340.10
45.0	2146.70	2193.39	2277.51	2328.85	2345.45	2328.85	2277.51	2193.39	2146.70	2193.39
47.5	1992.85	2042.38	2126.70	2182.02	2201.01	2182.02	2126.70	2042.38	1992.85	2042.38
50.0	1841.68	1889.80	1972.41	2034.47	2054.26	2034.47	1972.41	1889.80	1841.68	1889.80
52.5	1690.67	1738.87	1819.39	1882.95	1905.91	1882.95	1819.39	1738.87	1690.67	1738.87
55.0	1542.11	1589.82	1668.91	1732.65	1759.56	1732.65	1668.91	1589.82	1542.11	1589.82
57.5	1393.52	1444.36	1520.53	1589.28	1620.09	1589.28	1520.53	1444.36	1393.52	1444.36
60.0	1250.62	1302.03	1375.09	1453.73	1490.69	1453.73	1375.09	1302.03	1250.62	1302.03
62.5	1111.32	1161.41	1236.16	1323.59	1365.33	1323.59	1236.16	1161.41	1111.32	1161.41
65.0	978.14	1026.00	1101.66	1197.67	1235.93	1197.67	1101.66	1026.00	978.14	1026.00
67.5	848.90	897.55	972.81	1067.52	1103.94	1067.52	972.81	897.55	848.90	897.55
70.0	724.02	773.15	848.93	940.96	975.92	940.96	848.93	773.15	724.02	773.15
72.5	604.48	652.94	731.86	822.36	854.60	822.36	731.86	652.94	604.48	652.94
75.0	488.91	537.89	619.07	708.01	739.66	708.01	619.07	537.89	488.91	537.89
77.5	380.77	430.44	512.06	598.26	629.70	598.26	512.06	430.44	380.77	430.44
80.0	278.77	329.41	413.86	497.72	526.73	497.72	413.86	329.41	278.77	329.41
82.5	188.30	238.38	325.00	409.07	436.38	409.07	325.00	238.38	188.30	238.38
85.0	113.06	163.93	251.04	331.58	357.99	331.58	251.04	163.93	113.06	163.93
87.5	61.56	113.45	198.14	273.16	298.04	273.16	198.14	113.45	61.56	113.45
90.0	41.92	82.64	157.62	225.62	248.49	225.62	157.62	82.64	41.92	82.64
92.5	39.75	68.44	128.96	188.07	208.99	188.07	128.96	68.44	39.75	68.44
95.0	38.37	63.50	111.16	160.28	178.82	160.28	111.16	63.50	38.37	63.50
97.5	36.92	59.38	102.13	142.18	157.87	142.18	102.13	59.38	36.92	59.38
100.0	35.25	55.13	95.96	131.52	144.85	131.52	95.96	55.13	35.25	55.13
102.5	33.17	50.91	90.34	123.93	136.29	123.93	90.34	50.91	33.17	50.91
105.0	31.10	46.95	85.31	117.57	129.67	117.57	85.31	46.95	31.10	46.95
107.5	29.05	43.09	80.30	111.40	123.40	111.40	80.30	43.09	29.05	43.09
110.0	26.90	39.20	75.33	105.46	117.22	105.46	75.33	39.20	26.90	39.20
112.5	24.68	35.24	70.30	99.35	110.97	99.35	70.30	35.24	24.68	35.24
115.0	22.47	31.19	65.16	93.15	104.50	93.15	65.16	31.19	22.47	31.19
117.5	20.36	27.24	60.12	87.18	98.21	87.18	60.12	27.24	20.36	27.24
120.0	18.35	23.41	55.09	81.54	92.22	81.54	55.09	23.41	18.35	23.41
122.5	16.32	19.76	50.15	75.65	85.45	75.65	50.15	19.76	16.32	19.76
125.0	14.33	16.28	45.07	69.42	79.31	69.42	45.07	16.28	14.33	16.28
127.5	12.41	12.72	39.80	63.86	73.70	63.86	39.80	12.72	12.41	12.72
130.0	10.69	9.65	34.61	58.40	67.53	58.40	34.61	9.65	10.69	9.65
132.5	9.12	7.81	29.43	52.49	60.98	52.49	29.43	7.81	9.12	7.81

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PHOTOMETRIC FILENAME : APX12LL40-UNV-W-LFA.IES

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135.0	7.62	6.39	24.23	46.58	54.59	46.58	24.23	6.39	7.62	6.39
137.5	6.18	5.12	19.19	40.43	48.13	40.43	19.19	5.12	6.18	5.12
140.0	4.84	3.89	14.30	34.32	41.32	34.32	14.30	3.89	4.84	3.89
142.5	3.57	2.80	9.96	28.16	34.63	28.16	9.96	2.80	3.57	2.80
145.0	2.43	1.80	6.27	22.27	28.22	22.27	6.27	1.80	2.43	1.80
147.5	1.42	0.98	3.00	16.55	21.86	16.55	3.00	0.98	1.42	0.98
150.0	0.64	0.39	0.93	11.18	15.72	11.18	0.93	0.39	0.64	0.39
152.5	0.18	0.29	0.76	6.34	10.00	6.34	0.76	0.29	0.18	0.29
155.0	0.12	0.24	0.61	2.15	4.93	2.15	0.61	0.24	0.12	0.24
157.5	0.10	0.22	0.49	0.87	1.89	0.87	0.49	0.22	0.10	0.22
160.0	0.10	0.20	0.38	0.65	0.83	0.65	0.38	0.20	0.10	0.20
162.5	0.14	0.19	0.29	0.47	0.59	0.47	0.29	0.19	0.14	0.19
165.0	0.14	0.16	0.20	0.32	0.37	0.32	0.20	0.16	0.14	0.16
167.5	0.06	0.07	0.07	0.15	0.20	0.15	0.07	0.07	0.06	0.07
170.0	0.05	0.03	0.01	0.03	0.06	0.03	0.01	0.03	0.05	0.03
172.5	0.13	0.09	0.01	0.01	0.03	0.01	0.01	0.09	0.13	0.09
175.0	0.20	0.15	0.04	0.01	0.02	0.01	0.04	0.15	0.20	0.15
177.5	0.26	0.21	0.01	0.00	0.03	0.00	0.01	0.21	0.26	0.21
180.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**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	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13	3429.13
2.5	3431.87	3431.55	3427.66	3431.55	3431.87	3424.37	3422.62
5.0	3429.88	3432.13	3426.78	3432.13	3429.88	3421.04	3420.39
7.5	3423.98	3428.77	3425.19	3428.77	3423.98	3414.37	3414.86
10.0	3414.55	3423.89	3419.24	3423.89	3414.55	3405.70	3404.09
12.5	3401.99	3408.92	3407.10	3408.92	3401.99	3391.19	3387.19
15.0	3382.45	3389.03	3386.96	3389.03	3382.45	3369.58	3362.81
17.5	3352.52	3361.48	3360.73	3361.48	3352.52	3338.18	3327.68
20.0	3312.87	3323.45	3325.50	3323.45	3312.87	3294.24	3280.42
22.5	3260.70	3278.32	3282.48	3278.32	3260.70	3236.17	3220.98
25.0	3195.59	3219.68	3225.75	3219.68	3195.59	3165.50	3147.52
27.5	3119.02	3148.65	3154.31	3148.65	3119.02	3080.07	3059.45
30.0	3031.20	3065.15	3071.18	3065.15	3031.20	2981.24	2956.56
32.5	2929.73	2966.09	2976.86	2966.09	2929.73	2871.84	2841.40
35.0	2812.50	2855.01	2871.75	2855.01	2812.50	2751.25	2716.19
37.5	2686.41	2738.60	2754.69	2738.60	2686.41	2620.85	2585.04
40.0	2555.78	2614.06	2626.81	2614.06	2555.78	2482.73	2445.32
42.5	2420.09	2475.70	2489.86	2475.70	2420.09	2340.10	2299.33
45.0	2277.51	2328.85	2345.45	2328.85	2277.51	2193.39	2146.70
47.5	2126.70	2182.02	2201.01	2182.02	2126.70	2042.38	1992.85
50.0	1972.41	2034.47	2054.26	2034.47	1972.41	1889.80	1841.68
52.5	1819.39	1882.95	1905.91	1882.95	1819.39	1738.87	1690.67
55.0	1668.91	1732.65	1759.56	1732.65	1668.91	1589.82	1542.11
57.5	1520.53	1589.28	1620.09	1589.28	1520.53	1444.36	1393.52
60.0	1375.09	1453.73	1490.69	1453.73	1375.09	1302.03	1250.62
62.5	1236.16	1323.59	1365.33	1323.59	1236.16	1161.41	1111.32
65.0	1101.66	1197.67	1235.93	1197.67	1101.66	1026.00	978.14
67.5	972.81	1067.52	1103.94	1067.52	972.81	897.55	848.90
70.0	848.93	940.96	975.92	940.96	848.93	773.15	724.02
72.5	731.86	822.36	854.60	822.36	731.86	652.94	604.48
75.0	619.07	708.01	739.66	708.01	619.07	537.89	488.91
77.5	512.06	598.26	629.70	598.26	512.06	430.44	380.77
80.0	413.86	497.72	526.73	497.72	413.86	329.41	278.77

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-W-LFA.IES

CANDELA TABULATION - (Cont.)

82.5	325.00	409.07	436.38	409.07	325.00	238.38	188.30
85.0	251.04	331.58	357.99	331.58	251.04	163.93	113.06
87.5	198.14	273.16	298.04	273.16	198.14	113.45	61.56
90.0	157.62	225.62	248.49	225.62	157.62	82.64	41.92
92.5	128.96	188.07	208.99	188.07	128.96	68.44	39.75
95.0	111.16	160.28	178.82	160.28	111.16	63.50	38.37
97.5	102.13	142.18	157.87	142.18	102.13	59.38	36.92
100.0	95.96	131.52	144.85	131.52	95.96	55.13	35.25
102.5	90.34	123.93	136.29	123.93	90.34	50.91	33.17
105.0	85.31	117.57	129.67	117.57	85.31	46.95	31.10
107.5	80.30	111.40	123.40	111.40	80.30	43.09	29.05
110.0	75.33	105.46	117.22	105.46	75.33	39.20	26.90
112.5	70.30	99.35	110.97	99.35	70.30	35.24	24.68
115.0	65.16	93.15	104.50	93.15	65.16	31.19	22.47
117.5	60.12	87.18	98.21	87.18	60.12	27.24	20.36
120.0	55.09	81.54	92.22	81.54	55.09	23.41	18.35
122.5	50.15	75.65	85.45	75.65	50.15	19.76	16.32
125.0	45.07	69.42	79.31	69.42	45.07	16.28	14.33
127.5	39.80	63.86	73.70	63.86	39.80	12.72	12.41
130.0	34.61	58.40	67.53	58.40	34.61	9.65	10.69
132.5	29.43	52.49	60.98	52.49	29.43	7.81	9.12
135.0	24.23	46.58	54.59	46.58	24.23	6.39	7.62
137.5	19.19	40.43	48.13	40.43	19.19	5.12	6.18
140.0	14.30	34.32	41.32	34.32	14.30	3.89	4.84
142.5	9.96	28.16	34.63	28.16	9.96	2.80	3.57
145.0	6.27	22.27	28.22	22.27	6.27	1.80	2.43
147.5	3.00	16.55	21.86	16.55	3.00	0.98	1.42
150.0	0.93	11.18	15.72	11.18	0.93	0.39	0.64
152.5	0.76	6.34	10.00	6.34	0.76	0.29	0.18
155.0	0.61	2.15	4.93	2.15	0.61	0.24	0.12
157.5	0.49	0.87	1.89	0.87	0.49	0.22	0.10
160.0	0.38	0.65	0.83	0.65	0.38	0.20	0.10
162.5	0.29	0.47	0.59	0.47	0.29	0.19	0.14
165.0	0.20	0.32	0.37	0.32	0.20	0.16	0.14
167.5	0.07	0.15	0.20	0.15	0.07	0.07	0.06
170.0	0.01	0.03	0.06	0.03	0.01	0.03	0.05
172.5	0.01	0.01	0.03	0.01	0.01	0.09	0.13
175.0	0.04	0.01	0.02	0.01	0.04	0.15	0.20
177.5	0.01	0.00	0.03	0.00	0.01	0.21	0.26
180.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1281.11	N.A.	12.70
0-30	2750.06	N.A.	27.20
0-40	4501.03	N.A.	44.50
0-60	7731.52	N.A.	76.40
0-80	9489.07	N.A.	93.80
0-90	9772.32	N.A.	96.60
10-90	9445.64	N.A.	93.30
20-40	3219.92	N.A.	31.80
20-50	4963.03	N.A.	49.00
40-70	4329.21	N.A.	42.80
60-80	1757.55	N.A.	17.40
70-80	658.84	N.A.	6.50
80-90	283.25	N.A.	2.80
90-110	213.56	N.A.	2.10
90-120	276.54	N.A.	2.70
90-130	316.62	N.A.	3.10
90-150	345.26	N.A.	3.40
90-180	346.32	N.A.	3.40
110-180	132.76	N.A.	1.30
0-180	10118.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	326.68
10-20	954.43
20-30	1468.95
30-40	1750.97
40-50	1743.11
50-60	1487.38
60-70	1098.72
70-80	658.84
80-90	283.25
90-100	125.98
100-110	87.59
110-120	62.98
120-130	40.08
130-140	21.16
140-150	7.47
150-160	0.98
160-170	0.07
170-180	0.01

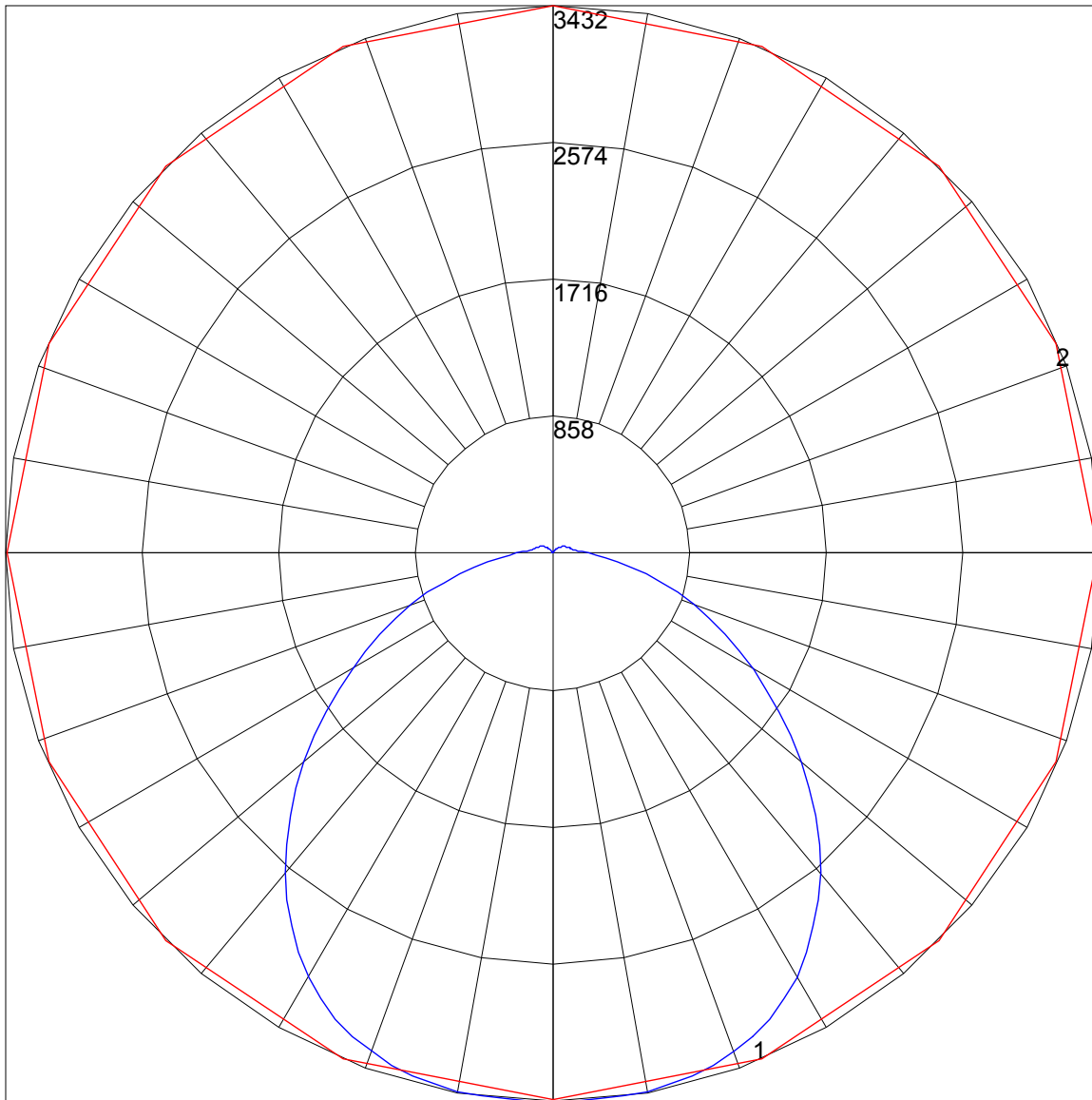
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-W-LFA.IES

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	90	83	77	95	88	81	76	83	78	74	80	75	72	76	73	69	67
3	89	79	71	64	87	77	70	64	74	67	62	70	65	60	67	63	59	57
4	82	70	61	55	79	69	60	54	66	59	53	63	57	52	60	55	51	49
5	75	63	54	47	73	61	53	47	59	52	46	57	50	45	54	49	44	42
6	70	56	48	41	68	55	47	41	53	46	40	51	45	40	49	44	39	37
7	65	51	43	36	63	50	42	36	48	41	36	47	40	35	45	39	35	33
8	60	47	38	33	58	46	38	32	44	37	32	43	36	32	41	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	27	51	39	31	26	38	31	26	37	30	26	35	30	26	24

POLAR GRAPH



Maximum Candela = 3432.13 Located At Horizontal Angle = 67.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)