

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX16LL40-UNV-LFP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33672.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/17/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K BOARDS 2-95W DRIVERS 4.7K RESISTORS DIRA LENS

[LAMP] LED. LUMINAIRE OUTPUT = 15644 LMS

[TESTDATE] 10/17/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	123.1
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)	1.71 ft
Luminous Height	0.50 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6370	5497	5367
55	5504	4533	4493
65	4474	3625	4114
75	3370	2957	3445
85	1787	2026	2527

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-LFP.IES

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	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63
2.5	5320.45	5327.48	5339.78	5338.40	5331.12	5338.40	5339.78	5327.48	5320.45	5327.48
5.0	5305.69	5310.71	5327.02	5329.73	5319.33	5329.73	5327.02	5310.71	5305.69	5310.71
7.5	5280.42	5284.81	5302.76	5307.21	5300.31	5307.21	5302.76	5284.81	5280.42	5284.81
10.0	5243.25	5250.32	5266.72	5278.37	5266.63	5278.37	5266.72	5250.32	5243.25	5250.32
12.5	5195.57	5207.06	5224.10	5227.37	5219.52	5227.37	5224.10	5207.06	5195.57	5207.06
15.0	5135.16	5153.33	5165.98	5165.02	5153.96	5165.02	5165.98	5153.33	5135.16	5153.33
17.5	5064.29	5086.18	5093.88	5087.99	5076.82	5087.99	5093.88	5086.18	5064.29	5086.18
20.0	4981.90	5004.13	5007.79	4995.66	4984.73	4995.66	5007.79	5004.13	4981.90	5004.13
22.5	4887.12	4909.07	4907.05	4894.85	4880.36	4894.85	4907.05	4909.07	4887.12	4909.07
25.0	4780.96	4802.01	4794.21	4776.86	4759.31	4776.86	4794.21	4802.01	4780.96	4802.01
27.5	4661.70	4680.90	4668.61	4643.65	4621.73	4643.65	4668.61	4680.90	4661.70	4680.90
30.0	4525.25	4545.16	4529.42	4497.76	4474.85	4497.76	4529.42	4545.16	4525.25	4545.16
32.5	4373.59	4395.93	4374.97	4332.36	4316.36	4332.36	4374.97	4395.93	4373.59	4395.93
35.0	4212.62	4231.20	4203.31	4159.01	4146.61	4159.01	4203.31	4231.20	4212.62	4231.20
37.5	4039.38	4050.93	4017.28	3981.72	3967.46	3981.72	4017.28	4050.93	4039.38	4050.93
40.0	3848.41	3857.30	3827.13	3792.55	3774.97	3792.55	3827.13	3857.30	3848.41	3857.30
42.5	3643.64	3655.33	3627.97	3587.70	3565.74	3587.70	3627.97	3655.33	3643.64	3655.33
45.0	3430.82	3443.81	3418.08	3367.03	3345.59	3367.03	3418.08	3443.81	3430.82	3443.81
47.5	3209.81	3216.36	3196.63	3142.93	3123.21	3142.93	3196.63	3216.36	3209.81	3216.36
50.0	2979.01	2983.37	2968.06	2917.99	2901.39	2917.99	2968.06	2983.37	2979.01	2983.37
52.5	2744.26	2752.06	2738.01	2693.50	2685.86	2693.50	2738.01	2752.06	2744.26	2752.06
55.0	2511.87	2520.86	2506.15	2480.57	2491.95	2480.57	2506.15	2520.86	2511.87	2520.86
57.5	2278.71	2292.19	2281.30	2293.73	2329.49	2293.73	2281.30	2292.19	2278.71	2292.19
60.0	2045.50	2066.32	2070.61	2137.03	2195.66	2137.03	2070.61	2066.32	2045.50	2066.32
62.5	1822.96	1846.71	1874.62	1999.95	2068.30	1999.95	1874.62	1846.71	1822.96	1846.71
65.0	1612.24	1639.59	1693.00	1865.10	1929.85	1865.10	1693.00	1639.59	1612.24	1639.59
67.5	1409.30	1443.51	1528.41	1720.10	1775.00	1720.10	1528.41	1443.51	1409.30	1443.51
70.0	1214.28	1256.52	1378.11	1566.63	1612.43	1566.63	1378.11	1256.52	1214.28	1256.52
72.5	1029.52	1078.51	1233.23	1406.56	1442.75	1406.56	1233.23	1078.51	1029.52	1078.51
75.0	853.84	909.54	1085.64	1241.45	1272.13	1241.45	1085.64	909.54	853.84	909.54
77.5	683.64	750.39	936.94	1074.71	1106.47	1074.71	936.94	750.39	683.64	750.39
80.0	520.82	598.35	790.54	917.06	947.25	917.06	790.54	598.35	520.82	598.35
82.5	373.14	457.35	648.67	769.23	796.92	769.23	648.67	457.35	373.14	457.35
85.0	247.82	336.83	518.68	626.91	652.32	626.91	518.68	336.83	247.82	336.83
87.5	156.29	249.75	416.31	507.29	528.66	507.29	416.31	249.75	156.29	249.75
90.0	115.09	189.74	329.02	402.38	420.32	402.38	329.02	189.74	115.09	189.74
92.5	104.42	154.87	261.90	318.36	331.55	318.36	261.90	154.87	104.42	154.87
95.0	98.87	137.59	215.30	256.33	265.96	256.33	215.30	137.59	98.87	137.59
97.5	95.41	124.64	185.52	214.52	221.89	214.52	185.52	124.64	95.41	124.64
100.0	92.39	113.45	165.32	188.69	194.03	188.69	165.32	113.45	92.39	113.45
102.5	88.04	103.89	150.28	172.40	177.04	172.40	150.28	103.89	88.04	103.89
105.0	82.79	95.75	139.30	161.63	166.66	161.63	139.30	95.75	82.79	95.75
107.5	76.90	88.30	130.20	153.11	159.08	153.11	130.20	88.30	76.90	88.30
110.0	70.28	80.97	122.18	145.79	152.48	145.79	122.18	80.97	70.28	80.97
112.5	63.23	73.17	114.54	138.70	146.23	138.70	114.54	73.17	63.23	73.17
115.0	56.09	65.09	106.90	131.42	139.39	131.42	106.90	65.09	56.09	65.09
117.5	49.44	57.09	99.21	124.10	132.48	124.10	99.21	57.09	49.44	57.09
120.0	43.32	49.18	91.34	116.97	125.69	116.97	91.34	49.18	43.32	49.18
122.5	37.50	41.57	83.41	109.39	117.80	109.39	83.41	41.57	37.50	41.57
125.0	32.22	34.62	75.30	100.94	109.97	100.94	75.30	34.62	32.22	34.62
127.5	27.56	27.75	66.61	93.27	102.71	93.27	66.61	27.75	27.56	27.75
130.0	23.52	21.88	57.88	85.51	94.63	85.51	57.88	21.88	23.52	21.88
132.5	20.04	17.80	49.45	76.96	85.75	76.96	49.45	17.80	20.04	17.80

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-LFP.IES

CANDELA TABULATION - (Cont.)

135.0	16.97	14.54	40.97	68.31	76.80	68.31	40.97	14.54	16.97	14.54
137.5	14.18	12.16	32.70	59.53	67.79	59.53	32.70	12.16	14.18	12.16
140.0	11.62	9.95	24.94	50.75	58.50	50.75	24.94	9.95	11.62	9.95
142.5	9.34	7.99	18.07	41.75	49.28	41.75	18.07	7.99	9.34	7.99
145.0	7.36	6.23	12.11	33.43	40.22	33.43	12.11	6.23	7.36	6.23
147.5	5.59	4.77	7.43	25.42	31.56	25.42	7.43	4.77	5.59	4.77
150.0	4.21	3.61	3.72	18.06	23.41	18.06	3.72	3.61	4.21	3.61
152.5	3.13	2.80	3.25	11.44	15.90	11.44	3.25	2.80	3.13	2.80
155.0	2.44	2.63	3.05	5.86	9.37	5.86	3.05	2.63	2.44	2.63
157.5	2.35	2.58	2.90	3.33	5.08	3.33	2.90	2.58	2.35	2.58
160.0	2.33	2.54	2.74	3.05	3.27	3.05	2.74	2.54	2.33	2.54
162.5	2.37	2.46	2.63	2.80	2.89	2.80	2.63	2.46	2.37	2.46
165.0	2.33	2.42	2.45	2.62	2.62	2.62	2.45	2.42	2.33	2.42
167.5	2.22	2.26	2.32	2.42	2.42	2.42	2.32	2.26	2.22	2.26
170.0	2.19	2.24	2.22	2.28	2.25	2.28	2.22	2.24	2.19	2.24
172.5	2.32	2.27	2.21	2.20	2.21	2.20	2.21	2.27	2.32	2.27
175.0	2.42	2.37	2.21	2.14	2.11	2.14	2.21	2.37	2.42	2.37
177.5	2.46	2.44	2.15	2.11	2.10	2.11	2.15	2.44	2.46	2.44
180.0	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23

**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	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63	5338.63
2.5	5339.78	5338.40	5331.12	5338.40	5339.78	5327.48	5320.45
5.0	5327.02	5329.73	5319.33	5329.73	5327.02	5310.71	5305.69
7.5	5302.76	5307.21	5300.31	5307.21	5302.76	5284.81	5280.42
10.0	5266.72	5278.37	5266.63	5278.37	5266.72	5250.32	5243.25
12.5	5224.10	5227.37	5219.52	5227.37	5224.10	5207.06	5195.57
15.0	5165.98	5165.02	5153.96	5165.02	5165.98	5153.33	5135.16
17.5	5093.88	5087.99	5076.82	5087.99	5093.88	5086.18	5064.29
20.0	5007.79	4995.66	4984.73	4995.66	5007.79	5004.13	4981.90
22.5	4907.05	4894.85	4880.36	4894.85	4907.05	4909.07	4887.12
25.0	4794.21	4776.86	4759.31	4776.86	4794.21	4802.01	4780.96
27.5	4668.61	4643.65	4621.73	4643.65	4668.61	4680.90	4661.70
30.0	4529.42	4497.76	4474.85	4497.76	4529.42	4545.16	4525.25
32.5	4374.97	4332.36	4316.36	4332.36	4374.97	4395.93	4373.59
35.0	4203.31	4159.01	4146.61	4159.01	4203.31	4231.20	4212.62
37.5	4017.28	3981.72	3967.46	3981.72	4017.28	4050.93	4039.38
40.0	3827.13	3792.55	3774.97	3792.55	3827.13	3857.30	3848.41
42.5	3627.97	3587.70	3565.74	3587.70	3627.97	3655.33	3643.64
45.0	3418.08	3367.03	3345.59	3367.03	3418.08	3443.81	3430.82
47.5	3196.63	3142.93	3123.21	3142.93	3196.63	3216.36	3209.81
50.0	2968.06	2917.99	2901.39	2917.99	2968.06	2983.37	2979.01
52.5	2738.01	2693.50	2685.86	2693.50	2738.01	2752.06	2744.26
55.0	2506.15	2480.57	2491.95	2480.57	2506.15	2520.86	2511.87
57.5	2281.30	2293.73	2329.49	2293.73	2281.30	2292.19	2278.71
60.0	2070.61	2137.03	2195.66	2137.03	2070.61	2066.32	2045.50
62.5	1874.62	1999.95	2068.30	1999.95	1874.62	1846.71	1822.96
65.0	1693.00	1865.10	1929.85	1865.10	1693.00	1639.59	1612.24
67.5	1528.41	1720.10	1775.00	1720.10	1528.41	1443.51	1409.30
70.0	1378.11	1566.63	1612.43	1566.63	1378.11	1256.52	1214.28
72.5	1233.23	1406.56	1442.75	1406.56	1233.23	1078.51	1029.52
75.0	1085.64	1241.45	1272.13	1241.45	1085.64	909.54	853.84
77.5	936.94	1074.71	1106.47	1074.71	936.94	750.39	683.64
80.0	790.54	917.06	947.25	917.06	790.54	598.35	520.82

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-LFP.IES

CANDELA TABULATION - (Cont.)

82.5	648.67	769.23	796.92	769.23	648.67	457.35	373.14
85.0	518.68	626.91	652.32	626.91	518.68	336.83	247.82
87.5	416.31	507.29	528.66	507.29	416.31	249.75	156.29
90.0	329.02	402.38	420.32	402.38	329.02	189.74	115.09
92.5	261.90	318.36	331.55	318.36	261.90	154.87	104.42
95.0	215.30	256.33	265.96	256.33	215.30	137.59	98.87
97.5	185.52	214.52	221.89	214.52	185.52	124.64	95.41
100.0	165.32	188.69	194.03	188.69	165.32	113.45	92.39
102.5	150.28	172.40	177.04	172.40	150.28	103.89	88.04
105.0	139.30	161.63	166.66	161.63	139.30	95.75	82.79
107.5	130.20	153.11	159.08	153.11	130.20	88.30	76.90
110.0	122.18	145.79	152.48	145.79	122.18	80.97	70.28
112.5	114.54	138.70	146.23	138.70	114.54	73.17	63.23
115.0	106.90	131.42	139.39	131.42	106.90	65.09	56.09
117.5	99.21	124.10	132.48	124.10	99.21	57.09	49.44
120.0	91.34	116.97	125.69	116.97	91.34	49.18	43.32
122.5	83.41	109.39	117.80	109.39	83.41	41.57	37.50
125.0	75.30	100.94	109.97	100.94	75.30	34.62	32.22
127.5	66.61	93.27	102.71	93.27	66.61	27.75	27.56
130.0	57.88	85.51	94.63	85.51	57.88	21.88	23.52
132.5	49.45	76.96	85.75	76.96	49.45	17.80	20.04
135.0	40.97	68.31	76.80	68.31	40.97	14.54	16.97
137.5	32.70	59.53	67.79	59.53	32.70	12.16	14.18
140.0	24.94	50.75	58.50	50.75	24.94	9.95	11.62
142.5	18.07	41.75	49.28	41.75	18.07	7.99	9.34
145.0	12.11	33.43	40.22	33.43	12.11	6.23	7.36
147.5	7.43	25.42	31.56	25.42	7.43	4.77	5.59
150.0	3.72	18.06	23.41	18.06	3.72	3.61	4.21
152.5	3.25	11.44	15.90	11.44	3.25	2.80	3.13
155.0	3.05	5.86	9.37	5.86	3.05	2.63	2.44
157.5	2.90	3.33	5.08	3.33	2.90	2.58	2.35
160.0	2.74	3.05	3.27	3.05	2.74	2.54	2.33
162.5	2.63	2.80	2.89	2.80	2.63	2.46	2.37
165.0	2.45	2.62	2.62	2.62	2.45	2.42	2.33
167.5	2.32	2.42	2.42	2.42	2.32	2.26	2.22
170.0	2.22	2.28	2.25	2.28	2.22	2.24	2.19
172.5	2.21	2.20	2.21	2.20	2.21	2.27	2.32
175.0	2.21	2.14	2.11	2.14	2.21	2.37	2.42
177.5	2.15	2.11	2.10	2.11	2.15	2.44	2.46
180.0	2.23	2.23	2.23	2.23	2.23	2.23	2.23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-LFP.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1961.22	N.A.	12.50
0-30	4165.03	N.A.	26.60
0-40	6785.33	N.A.	43.40
0-60	11653.23	N.A.	74.50
0-80	14518.54	N.A.	92.80
0-90	15065.02	N.A.	96.30
10-90	14559.03	N.A.	93.10
20-40	4824.12	N.A.	30.80
20-50	7446.3	N.A.	47.60
40-70	6595.91	N.A.	42.20
60-80	2865.31	N.A.	18.30
70-80	1137.3	N.A.	7.30
80-90	546.48	N.A.	3.50
90-110	366.47	N.A.	2.30
90-120	466.22	N.A.	3.00
90-130	529.83	N.A.	3.40
90-150	575.66	N.A.	3.70
90-180	579.06	N.A.	3.70
110-180	212.60	N.A.	1.40
0-180	15644.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	505.99
10-20	1455.23
20-30	2203.81
30-40	2620.3
40-50	2622.18
50-60	2245.72
60-70	1728.01
70-80	1137.3
80-90	546.48
90-100	227.11
100-110	139.36
110-120	99.75
120-130	63.61
130-140	33.46
140-150	12.37
150-160	2.47
160-170	0.71
170-180	0.21

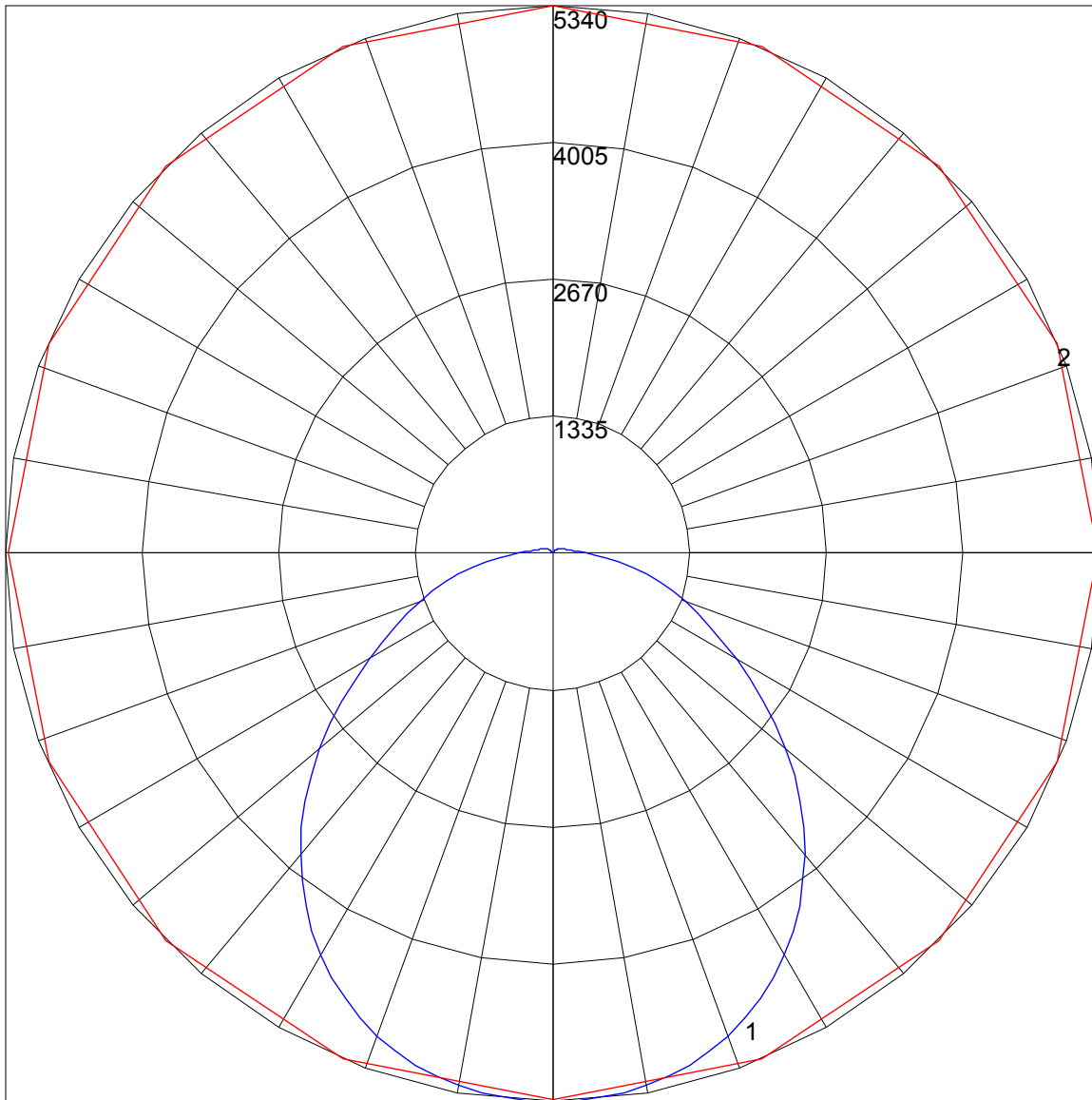
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-LFP.IES

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	96
1	107	102	98	94	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51	59	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	50	44	39	49	43	38	36
7	64	51	42	36	62	50	41	36	48	40	35	46	39	34	44	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	29	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 = 5339.78 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)