

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX20LL40-UNV-A-LFP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33747.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-A-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 18K RESISTORS AISLE OPTICS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 20271 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20271
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	168.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.94
Spacing Criterion (Diagonal)	1.64
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	6726	11428	14613
55	5065	9139	12243
65	3896	6404	10403
75	2874	4115	6940
85	1420	2156	3528

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-A-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	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54
2.5	5211.72	5220.23	5246.96	5275.25	5299.75	5275.25	5246.96	5220.23	5211.72	5220.23
5.0	5192.26	5214.46	5279.52	5344.94	5376.39	5344.94	5279.52	5214.46	5192.26	5214.46
7.5	5157.40	5204.83	5329.71	5448.58	5499.80	5448.58	5329.71	5204.83	5157.40	5204.83
10.0	5105.18	5191.48	5395.05	5593.68	5662.93	5593.68	5395.05	5191.48	5105.18	5191.48
12.5	5037.41	5173.39	5477.44	5759.00	5854.17	5759.00	5477.44	5173.39	5037.41	5173.39
15.0	4952.22	5147.65	5568.24	5944.73	6066.86	5944.73	5568.24	5147.65	4952.22	5147.65
17.5	4847.91	5110.84	5660.90	6142.92	6297.89	6142.92	5660.90	5110.84	4847.91	5110.84
20.0	4722.84	5057.03	5750.57	6344.67	6532.05	6344.67	5750.57	5057.03	4722.84	5057.03
22.5	4576.08	4986.80	5830.18	6549.89	6764.40	6549.89	5830.18	4986.80	4576.08	4986.80
25.0	4407.87	4899.75	5900.92	6734.55	6973.93	6734.55	5900.92	4899.75	4407.87	4899.75
27.5	4220.19	4792.78	5951.86	6895.35	7150.16	6895.35	5951.86	4792.78	4220.19	4792.78
30.0	4008.31	4662.08	5978.38	7022.44	7299.69	7022.44	5978.38	4662.08	4008.31	4662.08
32.5	3773.32	4505.49	5969.15	7098.01	7400.57	7098.01	5969.15	4505.49	3773.32	4505.49
35.0	3527.78	4322.41	5912.11	7122.86	7451.31	7122.86	5912.11	4322.41	3527.78	4322.41
37.5	3273.72	4115.12	5805.07	7097.17	7435.07	7097.17	5805.07	4115.12	3273.72	4115.12
40.0	3006.80	3882.31	5661.08	7005.99	7339.99	7005.99	5661.08	3882.31	3006.80	3882.31
42.5	2737.33	3630.15	5470.78	6827.25	7153.42	6827.25	5470.78	3630.15	2737.33	3630.15
45.0	2478.72	3363.47	5222.27	6557.05	6883.84	6557.05	5222.27	3363.47	2478.72	3363.47
47.5	2231.93	3082.87	4916.22	6215.76	6542.85	6215.76	4916.22	3082.87	2231.93	3082.87
50.0	1993.88	2795.99	4568.05	5815.08	6136.78	5815.08	4568.05	2795.99	1993.88	2795.99
52.5	1776.07	2513.63	4191.91	5371.20	5701.35	5371.20	4191.91	2513.63	1776.07	2513.63
55.0	1581.62	2240.79	3790.67	4912.39	5277.90	4912.39	3790.67	2240.79	1581.62	2240.79
57.5	1404.90	1986.86	3387.47	4490.82	4901.14	4490.82	3387.47	1986.86	1404.90	1986.86
60.0	1241.35	1752.54	3004.05	4118.43	4583.04	4118.43	3004.05	1752.54	1241.35	1752.54
62.5	1094.03	1533.68	2641.93	3778.91	4276.71	3778.91	2641.93	1533.68	1094.03	1533.68
65.0	960.47	1333.78	2305.07	3435.34	3932.59	3435.34	2305.07	1333.78	960.47	1333.78
67.5	835.37	1152.24	1998.88	3061.30	3530.45	3061.30	1998.88	1152.24	835.37	1152.24
70.0	716.51	987.82	1718.62	2666.30	3086.51	2666.30	1718.62	987.82	716.51	987.82
72.5	604.81	837.48	1456.55	2267.15	2626.22	2267.15	1456.55	837.48	604.81	837.48
75.0	498.27	696.39	1210.50	1876.99	2175.50	1876.99	1210.50	696.39	498.27	696.39
77.5	395.08	564.63	987.69	1519.75	1761.96	1519.75	987.69	564.63	395.08	564.63
80.0	297.36	442.74	790.01	1212.89	1399.05	1212.89	790.01	442.74	297.36	442.74
82.5	208.88	334.59	617.55	954.63	1095.21	954.63	617.55	334.59	208.88	334.59
85.0	134.72	244.53	473.34	735.47	844.48	735.47	473.34	244.53	134.72	244.53
87.5	82.46	181.68	367.88	572.12	656.04	572.12	367.88	181.68	82.46	181.68
90.0	61.49	139.36	287.57	446.02	510.75	446.02	287.57	139.36	61.49	139.36
92.5	58.45	115.91	231.08	353.39	402.67	353.39	231.08	115.91	58.45	115.91
95.0	57.24	105.88	193.81	290.08	328.72	290.08	193.81	105.88	57.24	105.88
97.5	56.23	99.04	172.06	249.91	280.85	249.91	172.06	99.04	56.23	99.04
100.0	54.79	92.51	160.22	226.23	251.85	226.23	160.22	92.51	54.79	92.51
102.5	52.52	86.41	151.67	212.88	235.19	212.88	151.67	86.41	52.52	86.41
105.0	49.59	80.80	145.44	204.72	225.52	204.72	145.44	80.80	49.59	80.80
107.5	46.42	75.40	139.49	197.70	218.16	197.70	139.49	75.40	46.42	75.40
110.0	42.86	69.86	133.48	190.69	210.79	190.69	133.48	69.86	42.86	69.86
112.5	38.94	63.90	127.18	183.01	202.61	183.01	127.18	63.90	38.94	63.90
115.0	34.99	57.61	120.28	174.28	193.19	174.28	120.28	57.61	34.99	57.61
117.5	31.33	51.17	113.03	164.88	183.20	164.88	113.03	51.17	31.33	51.17
120.0	27.86	44.72	105.45	155.50	173.09	155.50	105.45	44.72	27.86	44.72
122.5	24.47	38.32	97.83	145.72	161.43	145.72	97.83	38.32	24.47	38.32
125.0	21.41	31.95	89.83	134.92	150.13	134.92	89.83	31.95	21.41	31.95
127.5	18.61	25.64	81.15	125.14	140.36	125.14	81.15	25.64	18.61	25.64
130.0	16.17	19.92	72.36	115.79	129.67	115.79	72.36	19.92	16.17	19.92
132.5	14.01	15.26	63.42	105.42	118.23	105.42	63.42	15.26	14.01	15.26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-A-LFP.IES

CANDELA TABULATION - (Cont.)

135.0	12.04	11.29	53.99	94.76	106.93	94.76	53.99	11.29	12.04	11.29
137.5	10.29	9.15	44.54	83.65	95.37	83.65	44.54	9.15	10.29	9.15
140.0	8.61	7.58	35.25	72.58	83.24	72.58	35.25	7.58	8.61	7.58
142.5	7.04	6.14	26.50	61.10	71.21	61.10	26.50	6.14	7.04	6.14
145.0	5.68	4.95	18.61	49.77	59.16	49.77	18.61	4.95	5.68	4.95
147.5	4.56	3.96	11.75	38.68	47.16	38.68	11.75	3.96	4.56	3.96
150.0	3.59	3.20	5.61	28.14	35.59	28.14	5.61	3.20	3.59	3.20
152.5	2.90	2.68	3.56	18.25	24.61	18.25	3.56	2.68	2.90	2.68
155.0	2.46	2.61	3.37	9.35	14.54	9.35	3.37	2.61	2.46	2.61
157.5	2.46	2.63	3.18	4.19	7.45	4.19	3.18	2.63	2.46	2.63
160.0	2.56	2.64	3.04	3.76	4.13	3.76	3.04	2.64	2.56	2.64
162.5	2.63	2.70	2.93	3.36	3.65	3.36	2.93	2.70	2.63	2.70
165.0	2.69	2.65	2.78	3.07	3.19	3.07	2.78	2.65	2.69	2.65
167.5	2.63	2.56	2.59	2.76	2.83	2.76	2.59	2.56	2.63	2.56
170.0	2.63	2.53	2.47	2.55	2.58	2.55	2.47	2.53	2.63	2.53
172.5	2.78	2.62	2.47	2.48	2.47	2.48	2.47	2.62	2.78	2.62
175.0	2.91	2.74	2.46	2.36	2.39	2.36	2.46	2.74	2.91	2.74
177.5	3.03	2.85	2.41	2.30	2.32	2.30	2.41	2.85	3.03	2.85
180.0	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56

**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	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54	5240.54
2.5	5246.96	5275.25	5299.75	5275.25	5246.96	5220.23	5211.72
5.0	5279.52	5344.94	5376.39	5344.94	5279.52	5214.46	5192.26
7.5	5329.71	5448.58	5499.80	5448.58	5329.71	5204.83	5157.40
10.0	5395.05	5593.68	5662.93	5593.68	5395.05	5191.48	5105.18
12.5	5477.44	5759.00	5854.17	5759.00	5477.44	5173.39	5037.41
15.0	5568.24	5944.73	6066.86	5944.73	5568.24	5147.65	4952.22
17.5	5660.90	6142.92	6297.89	6142.92	5660.90	5110.84	4847.91
20.0	5750.57	6344.67	6532.05	6344.67	5750.57	5057.03	4722.84
22.5	5830.18	6549.89	6764.40	6549.89	5830.18	4986.80	4576.08
25.0	5900.92	6734.55	6973.93	6734.55	5900.92	4899.75	4407.87
27.5	5951.86	6895.35	7150.16	6895.35	5951.86	4792.78	4220.19
30.0	5978.38	7022.44	7299.69	7022.44	5978.38	4662.08	4008.31
32.5	5969.15	7098.01	7400.57	7098.01	5969.15	4505.49	3773.32
35.0	5912.11	7122.86	7451.31	7122.86	5912.11	4322.41	3527.78
37.5	5805.07	7097.17	7435.07	7097.17	5805.07	4115.12	3273.72
40.0	5661.08	7005.99	7339.99	7005.99	5661.08	3882.31	3006.80
42.5	5470.78	6827.25	7153.42	6827.25	5470.78	3630.15	2737.33
45.0	5222.27	6557.05	6883.84	6557.05	5222.27	3363.47	2478.72
47.5	4916.22	6215.76	6542.85	6215.76	4916.22	3082.87	2231.93
50.0	4568.05	5815.08	6136.78	5815.08	4568.05	2795.99	1993.88
52.5	4191.91	5371.20	5701.35	5371.20	4191.91	2513.63	1776.07
55.0	3790.67	4912.39	5277.90	4912.39	3790.67	2240.79	1581.62
57.5	3387.47	4490.82	4901.14	4490.82	3387.47	1986.86	1404.90
60.0	3004.05	4118.43	4583.04	4118.43	3004.05	1752.54	1241.35
62.5	2641.93	3778.91	4276.71	3778.91	2641.93	1533.68	1094.03
65.0	2305.07	3435.34	3932.59	3435.34	2305.07	1333.78	960.47
67.5	1998.88	3061.30	3530.45	3061.30	1998.88	1152.24	835.37
70.0	1718.62	2666.30	3086.51	2666.30	1718.62	987.82	716.51
72.5	1456.55	2267.15	2626.22	2267.15	1456.55	837.48	604.81
75.0	1210.50	1876.99	2175.50	1876.99	1210.50	696.39	498.27
77.5	987.69	1519.75	1761.96	1519.75	987.69	564.63	395.08
80.0	790.01	1212.89	1399.05	1212.89	790.01	442.74	297.36

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-A-LFP.IES

CANDELA TABULATION - (Cont.)

82.5	617.55	954.63	1095.21	954.63	617.55	334.59	208.88
85.0	473.34	735.47	844.48	735.47	473.34	244.53	134.72
87.5	367.88	572.12	656.04	572.12	367.88	181.68	82.46
90.0	287.57	446.02	510.75	446.02	287.57	139.36	61.49
92.5	231.08	353.39	402.67	353.39	231.08	115.91	58.45
95.0	193.81	290.08	328.72	290.08	193.81	105.88	57.24
97.5	172.06	249.91	280.85	249.91	172.06	99.04	56.23
100.0	160.22	226.23	251.85	226.23	160.22	92.51	54.79
102.5	151.67	212.88	235.19	212.88	151.67	86.41	52.52
105.0	145.44	204.72	225.52	204.72	145.44	80.80	49.59
107.5	139.49	197.70	218.16	197.70	139.49	75.40	46.42
110.0	133.48	190.69	210.79	190.69	133.48	69.86	42.86
112.5	127.18	183.01	202.61	183.01	127.18	63.90	38.94
115.0	120.28	174.28	193.19	174.28	120.28	57.61	34.99
117.5	113.03	164.88	183.20	164.88	113.03	51.17	31.33
120.0	105.45	155.50	173.09	155.50	105.45	44.72	27.86
122.5	97.83	145.72	161.43	145.72	97.83	38.32	24.47
125.0	89.83	134.92	150.13	134.92	89.83	31.95	21.41
127.5	81.15	125.14	140.36	125.14	81.15	25.64	18.61
130.0	72.36	115.79	129.67	115.79	72.36	19.92	16.17
132.5	63.42	105.42	118.23	105.42	63.42	15.26	14.01
135.0	53.99	94.76	106.93	94.76	53.99	11.29	12.04
137.5	44.54	83.65	95.37	83.65	44.54	9.15	10.29
140.0	35.25	72.58	83.24	72.58	35.25	7.58	8.61
142.5	26.50	61.10	71.21	61.10	26.50	6.14	7.04
145.0	18.61	49.77	59.16	49.77	18.61	4.95	5.68
147.5	11.75	38.68	47.16	38.68	11.75	3.96	4.56
150.0	5.61	28.14	35.59	28.14	5.61	3.20	3.59
152.5	3.56	18.25	24.61	18.25	3.56	2.68	2.90
155.0	3.37	9.35	14.54	9.35	3.37	2.61	2.46
157.5	3.18	4.19	7.45	4.19	3.18	2.63	2.46
160.0	3.04	3.76	4.13	3.76	3.04	2.64	2.56
162.5	2.93	3.36	3.65	3.36	2.93	2.70	2.63
165.0	2.78	3.07	3.19	3.07	2.78	2.65	2.69
167.5	2.59	2.76	2.83	2.76	2.59	2.56	2.63
170.0	2.47	2.55	2.58	2.55	2.47	2.53	2.63
172.5	2.47	2.48	2.47	2.48	2.47	2.62	2.78
175.0	2.46	2.36	2.39	2.36	2.46	2.74	2.91
177.5	2.41	2.30	2.32	2.30	2.41	2.85	3.03
180.0	2.56	2.56	2.56	2.56	2.56	2.56	2.56

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-A-LFP.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2083.24	N.A.	10.30
0-30	4765.01	N.A.	23.50
0-40	8329.04	N.A.	41.10
0-60	15355.37	N.A.	75.70
0-80	19078.01	N.A.	94.10
0-90	19637.77	N.A.	96.90
10-90	19130.2	N.A.	94.40
20-40	6245.81	N.A.	30.80
20-50	10047.27	N.A.	49.60
40-70	9382.06	N.A.	46.30
60-80	3722.64	N.A.	18.40
70-80	1366.91	N.A.	6.70
80-90	559.76	N.A.	2.80
90-110	376.29	N.A.	1.90
90-120	491.92	N.A.	2.40
90-130	569.14	N.A.	2.80
90-150	629.22	N.A.	3.10
90-180	633.66	N.A.	3.10
110-180	257.38	N.A.	1.30
0-180	20271.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	507.57
10-20	1575.66
20-30	2681.77
30-40	3564.04
40-50	3801.46
50-60	3224.86
60-70	2355.73
70-80	1366.91
80-90	559.76
90-100	225.12
100-110	151.17
110-120	115.63
120-130	77.22
130-140	42.96
140-150	17.12
150-160	3.38
160-170	0.82
170-180	0.24

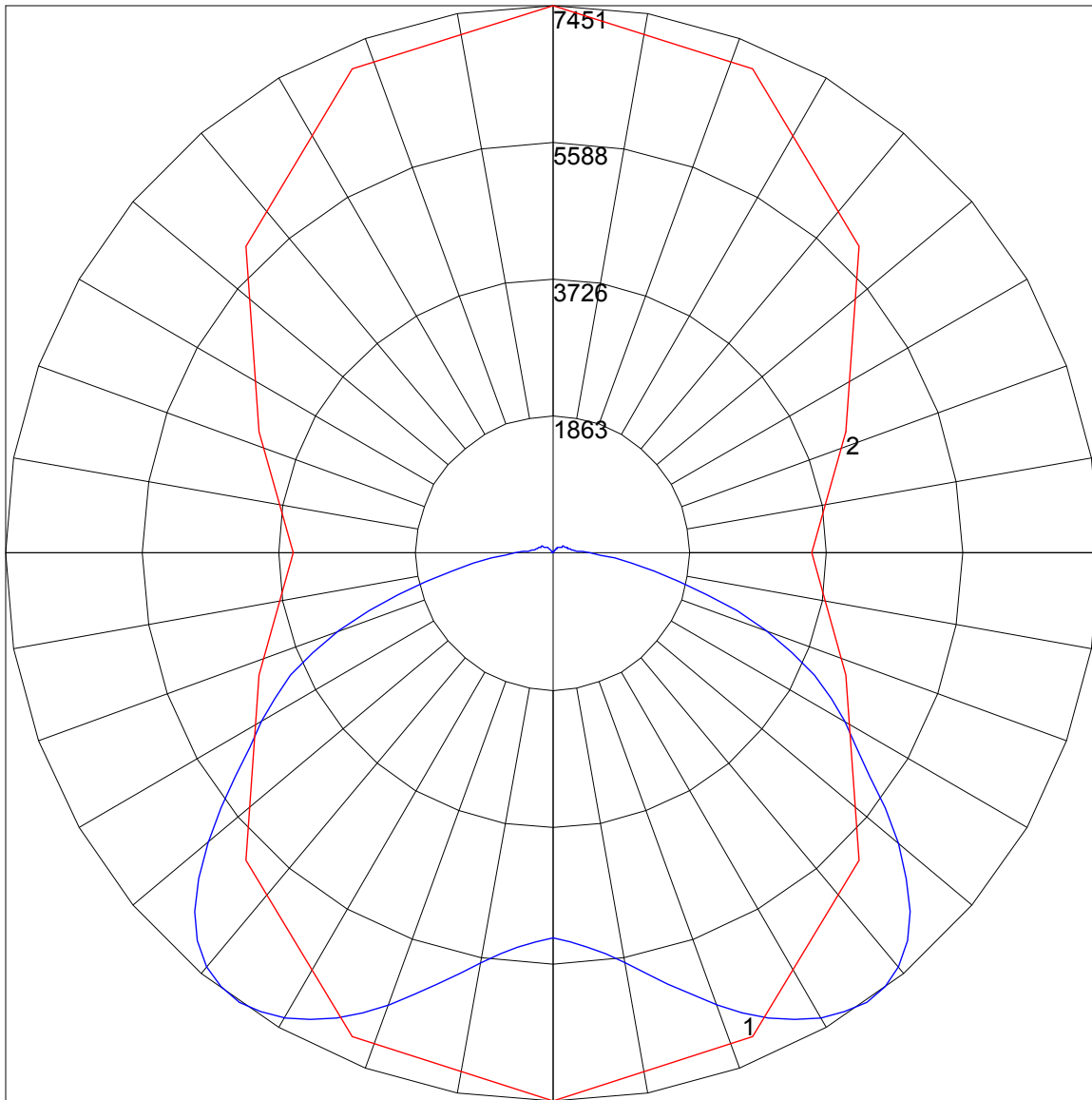
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX20LL40-UNV-A-LFP.IES

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	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	86	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	43	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 7451.31 Located At Horizontal Angle = 90, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)