

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX24LL40-UNV-A-LFP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33740.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX24LL40-UNV-A-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS AISLE OPTICS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 22291 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	191.4
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	7375	12548	16125
55	5582	9917	13425
65	4314	6958	11374
75	3201	4475	7642
85	1587	2314	3890

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-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	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78
2.5	5745.44	5756.70	5789.39	5823.44	5850.87	5823.44	5789.39	5756.70	5745.44	5756.70
5.0	5723.45	5749.69	5826.91	5899.33	5935.01	5899.33	5826.91	5749.69	5723.45	5749.69
7.5	5683.36	5739.34	5882.32	6020.40	6075.91	6020.40	5882.32	5739.34	5683.36	5739.34
10.0	5623.99	5725.91	5956.83	6188.28	6261.82	6188.28	5956.83	5725.91	5623.99	5725.91
12.5	5547.72	5707.11	6054.63	6374.92	6480.87	6374.92	6054.63	5707.11	5547.72	5707.11
15.0	5452.62	5676.24	6156.69	6588.90	6725.16	6588.90	6156.69	5676.24	5452.62	5676.24
17.5	5337.18	5633.32	6262.74	6816.10	6988.18	6816.10	6262.74	5633.32	5337.18	5633.32
20.0	5196.75	5572.15	6364.89	7047.33	7254.65	7047.33	6364.89	5572.15	5196.75	5572.15
22.5	5031.59	5494.55	6457.36	7279.05	7518.34	7279.05	6457.36	5494.55	5031.59	5494.55
25.0	4844.05	5396.07	6539.65	7491.16	7759.13	7491.16	6539.65	5396.07	4844.05	5396.07
27.5	4632.07	5275.95	6594.87	7670.49	7965.94	7670.49	6594.87	5275.95	4632.07	5275.95
30.0	4397.93	5130.22	6623.23	7811.49	8125.40	7811.49	6623.23	5130.22	4397.93	5130.22
32.5	4138.66	4956.34	6610.19	7889.28	8236.27	7889.28	6610.19	4956.34	4138.66	4956.34
35.0	3864.70	4752.52	6541.56	7910.62	8286.62	7910.62	6541.56	4752.52	3864.70	4752.52
37.5	3583.06	4519.99	6417.55	7868.48	8258.41	7868.48	6417.55	4519.99	3583.06	4519.99
40.0	3295.49	4260.65	6245.64	7748.36	8131.51	7748.36	6245.64	4260.65	3295.49	4260.65
42.5	3004.86	3983.55	6018.58	7533.51	7913.34	7533.51	6018.58	3983.55	3004.86	3983.55
45.0	2717.56	3689.68	5734.03	7216.14	7595.99	7216.14	5734.03	3689.68	2717.56	3689.68
47.5	2445.68	3376.00	5385.43	6817.48	7204.29	6817.48	5385.43	3376.00	2445.68	3376.00
50.0	2192.78	3059.24	4987.61	6359.97	6744.41	6359.97	4987.61	3059.24	2192.78	3059.24
52.5	1958.12	2752.06	4560.03	5857.52	6257.46	5857.52	4560.03	2752.06	1958.12	2752.06
55.0	1743.14	2455.27	4113.23	5356.05	5787.70	5356.05	4113.23	2455.27	1743.14	2455.27
57.5	1549.22	2176.95	3671.02	4895.09	5374.82	4895.09	3671.02	2176.95	1549.22	2176.95
60.0	1373.38	1920.46	3253.43	4487.83	5021.30	4487.83	3253.43	1920.46	1373.38	1920.46
62.5	1212.56	1682.90	2864.30	4116.26	4679.23	4116.26	2864.30	1682.90	1212.56	1682.90
65.0	1063.54	1463.80	2504.44	3749.02	4299.74	3749.02	2504.44	1463.80	1063.54	1463.80
67.5	925.22	1264.75	2171.49	3340.78	3864.42	3340.78	2171.49	1264.75	925.22	1264.75
70.0	795.27	1083.62	1865.07	2908.70	3385.96	2908.70	1865.07	1083.62	795.27	1083.62
72.5	672.26	918.36	1582.89	2474.59	2882.78	2474.59	1582.89	918.36	672.26	918.36
75.0	554.88	763.02	1316.45	2056.14	2395.53	2056.14	1316.45	763.02	554.88	763.02
77.5	440.29	618.85	1071.65	1666.11	1946.32	1666.11	1071.65	618.85	440.29	618.85
80.0	331.17	485.06	853.79	1323.30	1547.90	1323.30	853.79	485.06	331.17	485.06
82.5	232.74	364.86	664.97	1038.71	1211.69	1038.71	664.97	364.86	232.74	364.86
85.0	150.57	264.26	507.98	798.89	931.26	798.89	507.98	264.26	150.57	264.26
87.5	92.46	195.16	393.78	621.26	725.25	621.26	393.78	195.16	92.46	195.16
90.0	69.59	150.78	309.43	485.24	566.16	485.24	309.43	150.78	69.59	150.78
92.5	66.11	127.87	250.37	386.54	447.13	386.54	250.37	127.87	66.11	127.87
95.0	64.52	118.14	211.81	319.63	366.32	319.63	211.81	118.14	64.52	118.14
97.5	63.43	110.10	190.82	276.62	314.17	276.62	190.82	110.10	63.43	110.10
100.0	61.48	102.67	177.98	251.99	282.16	251.99	177.98	102.67	61.48	102.67
102.5	58.58	95.47	168.29	237.42	264.00	237.42	168.29	95.47	58.58	95.47
105.0	55.34	89.01	160.98	227.36	252.37	227.36	160.98	89.01	55.34	89.01
107.5	51.82	82.63	153.79	218.89	243.65	218.89	153.79	82.63	51.82	82.63
110.0	47.36	76.12	146.75	210.27	234.23	210.27	146.75	76.12	47.36	76.12
112.5	43.27	69.39	139.60	201.21	224.58	201.21	139.60	69.39	43.27	69.39
115.0	38.71	62.21	131.88	191.09	213.48	191.09	131.88	62.21	38.71	62.21
117.5	34.78	54.76	123.79	180.58	202.01	180.58	123.79	54.76	34.78	54.76
120.0	30.72	47.51	115.23	170.56	190.60	170.56	115.23	47.51	30.72	47.51
122.5	27.17	40.31	107.13	159.98	178.12	159.98	107.13	40.31	27.17	40.31
125.0	23.50	33.39	98.08	148.21	165.52	148.21	98.08	33.39	23.50	33.39
127.5	20.48	26.60	88.12	137.60	154.78	137.60	88.12	26.60	20.48	26.60
130.0	17.66	20.35	78.66	127.50	143.20	127.50	78.66	20.35	17.66	20.35
132.5	15.27	15.72	68.89	116.04	131.20	116.04	68.89	15.72	15.27	15.72

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A-LFP.IES

CANDELA TABULATION - (Cont.)

135.0	13.17	12.94	58.12	104.23	118.39	104.23	58.12	12.94	13.17	12.94
137.5	11.29	10.80	47.55	91.87	105.73	91.87	47.55	10.80	11.29	10.80
140.0	9.48	9.15	37.03	79.59	92.41	79.59	37.03	9.15	9.48	9.15
142.5	7.98	7.48	27.51	66.72	79.04	66.72	27.51	7.48	7.98	7.48
145.0	6.15	6.22	18.68	53.93	65.24	53.93	18.68	6.22	6.15	6.22
147.5	4.90	4.83	10.96	41.72	51.97	41.72	10.96	4.83	4.90	4.83
150.0	3.62	3.75	6.15	30.21	39.06	30.21	6.15	3.75	3.62	3.75
152.5	2.87	2.97	5.30	18.63	26.92	18.63	5.30	2.97	2.87	2.97
155.0	2.18	3.00	4.79	10.06	16.14	10.06	4.79	3.00	2.18	3.00
157.5	2.66	2.83	4.47	6.64	9.51	6.64	4.47	2.83	2.66	2.83
160.0	2.40	2.73	4.19	5.91	6.60	5.91	4.19	2.73	2.40	2.73
162.5	2.37	3.02	3.85	5.12	5.78	5.12	3.85	3.02	2.37	3.02
165.0	2.33	2.78	3.60	4.45	4.84	4.45	3.60	2.78	2.33	2.78
167.5	2.20	2.60	3.03	3.81	3.96	3.81	3.03	2.60	2.20	2.60
170.0	2.63	2.65	2.69	3.30	3.39	3.30	2.69	2.65	2.63	2.65
172.5	2.62	2.73	2.73	2.97	3.00	2.97	2.73	2.73	2.62	2.73
175.0	2.79	2.75	2.76	2.87	2.82	2.87	2.76	2.75	2.79	2.75
177.5	2.84	2.65	2.69	2.47	2.60	2.47	2.69	2.65	2.84	2.65
180.0	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59

**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	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78	5780.78
2.5	5789.39	5823.44	5850.87	5823.44	5789.39	5756.70	5745.44
5.0	5826.91	5899.33	5935.01	5899.33	5826.91	5749.69	5723.45
7.5	5882.32	6020.40	6075.91	6020.40	5882.32	5739.34	5683.36
10.0	5956.83	6188.28	6261.82	6188.28	5956.83	5725.91	5623.99
12.5	6054.63	6374.92	6480.87	6374.92	6054.63	5707.11	5547.72
15.0	6156.69	6588.90	6725.16	6588.90	6156.69	5676.24	5452.62
17.5	6262.74	6816.10	6988.18	6816.10	6262.74	5633.32	5337.18
20.0	6364.89	7047.33	7254.65	7047.33	6364.89	5572.15	5196.75
22.5	6457.36	7279.05	7518.34	7279.05	6457.36	5494.55	5031.59
25.0	6539.65	7491.16	7759.13	7491.16	6539.65	5396.07	4844.05
27.5	6594.87	7670.49	7965.94	7670.49	6594.87	5275.95	4632.07
30.0	6623.23	7811.49	8125.40	7811.49	6623.23	5130.22	4397.93
32.5	6610.19	7889.28	8236.27	7889.28	6610.19	4956.34	4138.66
35.0	6541.56	7910.62	8286.62	7910.62	6541.56	4752.52	3864.70
37.5	6417.55	7868.48	8258.41	7868.48	6417.55	4519.99	3583.06
40.0	6245.64	7748.36	8131.51	7748.36	6245.64	4260.65	3295.49
42.5	6018.58	7533.51	7913.34	7533.51	6018.58	3983.55	3004.86
45.0	5734.03	7216.14	7595.99	7216.14	5734.03	3689.68	2717.56
47.5	5385.43	6817.48	7204.29	6817.48	5385.43	3376.00	2445.68
50.0	4987.61	6359.97	6744.41	6359.97	4987.61	3059.24	2192.78
52.5	4560.03	5857.52	6257.46	5857.52	4560.03	2752.06	1958.12
55.0	4113.23	5356.05	5787.70	5356.05	4113.23	2455.27	1743.14
57.5	3671.02	4895.09	5374.82	4895.09	3671.02	2176.95	1549.22
60.0	3253.43	4487.83	5021.30	4487.83	3253.43	1920.46	1373.38
62.5	2864.30	4116.26	4679.23	4116.26	2864.30	1682.90	1212.56
65.0	2504.44	3749.02	4299.74	3749.02	2504.44	1463.80	1063.54
67.5	2171.49	3340.78	3864.42	3340.78	2171.49	1264.75	925.22
70.0	1865.07	2908.70	3385.96	2908.70	1865.07	1083.62	795.27
72.5	1582.89	2474.59	2882.78	2474.59	1582.89	918.36	672.26
75.0	1316.45	2056.14	2395.53	2056.14	1316.45	763.02	554.88
77.5	1071.65	1666.11	1946.32	1666.11	1071.65	618.85	440.29
80.0	853.79	1323.30	1547.90	1323.30	853.79	485.06	331.17

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A-LFP.IES

CANDELA TABULATION - (Cont.)

82.5	664.97	1038.71	1211.69	1038.71	664.97	364.86	232.74
85.0	507.98	798.89	931.26	798.89	507.98	264.26	150.57
87.5	393.78	621.26	725.25	621.26	393.78	195.16	92.46
90.0	309.43	485.24	566.16	485.24	309.43	150.78	69.59
92.5	250.37	386.54	447.13	386.54	250.37	127.87	66.11
95.0	211.81	319.63	366.32	319.63	211.81	118.14	64.52
97.5	190.82	276.62	314.17	276.62	190.82	110.10	63.43
100.0	177.98	251.99	282.16	251.99	177.98	102.67	61.48
102.5	168.29	237.42	264.00	237.42	168.29	95.47	58.58
105.0	160.98	227.36	252.37	227.36	160.98	89.01	55.34
107.5	153.79	218.89	243.65	218.89	153.79	82.63	51.82
110.0	146.75	210.27	234.23	210.27	146.75	76.12	47.36
112.5	139.60	201.21	224.58	201.21	139.60	69.39	43.27
115.0	131.88	191.09	213.48	191.09	131.88	62.21	38.71
117.5	123.79	180.58	202.01	180.58	123.79	54.76	34.78
120.0	115.23	170.56	190.60	170.56	115.23	47.51	30.72
122.5	107.13	159.98	178.12	159.98	107.13	40.31	27.17
125.0	98.08	148.21	165.52	148.21	98.08	33.39	23.50
127.5	88.12	137.60	154.78	137.60	88.12	26.60	20.48
130.0	78.66	127.50	143.20	127.50	78.66	20.35	17.66
132.5	68.89	116.04	131.20	116.04	68.89	15.72	15.27
135.0	58.12	104.23	118.39	104.23	58.12	12.94	13.17
137.5	47.55	91.87	105.73	91.87	47.55	10.80	11.29
140.0	37.03	79.59	92.41	79.59	37.03	9.15	9.48
142.5	27.51	66.72	79.04	66.72	27.51	7.48	7.98
145.0	18.68	53.93	65.24	53.93	18.68	6.22	6.15
147.5	10.96	41.72	51.97	41.72	10.96	4.83	4.90
150.0	6.15	30.21	39.06	30.21	6.15	3.75	3.62
152.5	5.30	18.63	26.92	18.63	5.30	2.97	2.87
155.0	4.79	10.06	16.14	10.06	4.79	3.00	2.18
157.5	4.47	6.64	9.51	6.64	4.47	2.83	2.66
160.0	4.19	5.91	6.60	5.91	4.19	2.73	2.40
162.5	3.85	5.12	5.78	5.12	3.85	3.02	2.37
165.0	3.60	4.45	4.84	4.45	3.60	2.78	2.33
167.5	3.03	3.81	3.96	3.81	3.03	2.60	2.20
170.0	2.69	3.30	3.39	3.30	2.69	2.65	2.63
172.5	2.73	2.97	3.00	2.97	2.73	2.73	2.62
175.0	2.76	2.87	2.82	2.87	2.76	2.75	2.79
177.5	2.69	2.47	2.60	2.47	2.69	2.65	2.84
180.0	2.59	2.59	2.59	2.59	2.59	2.59	2.59

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2302.4	N.A.	10.30
0-30	5272.48	N.A.	23.70
0-40	9214.59	N.A.	41.30
0-60	16915.36	N.A.	75.90
0-80	20983.37	N.A.	94.10
0-90	21593.19	N.A.	96.90
10-90	21033.01	N.A.	94.40
20-40	6912.19	N.A.	31.00
20-50	11091.17	N.A.	49.80
40-70	10272.83	N.A.	46.10
60-80	4068.00	N.A.	18.20
70-80	1495.95	N.A.	6.70
80-90	609.83	N.A.	2.70
90-110	415.95	N.A.	1.90
90-120	542.83	N.A.	2.40
90-130	627.22	N.A.	2.80
90-150	692.90	N.A.	3.10
90-180	698.07	N.A.	3.10
110-180	282.12	N.A.	1.30
0-180	22291.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	560.19
10-20	1742.21
20-30	2970.08
30-40	3942.11
40-50	4178.98
50-60	3521.79
60-70	2572.06
70-80	1495.95
80-90	609.83
90-100	248.16
100-110	167.79
110-120	126.88
120-130	84.39
130-140	47.08
140-150	18.60
150-160	3.86
160-170	1.04
170-180	0.27

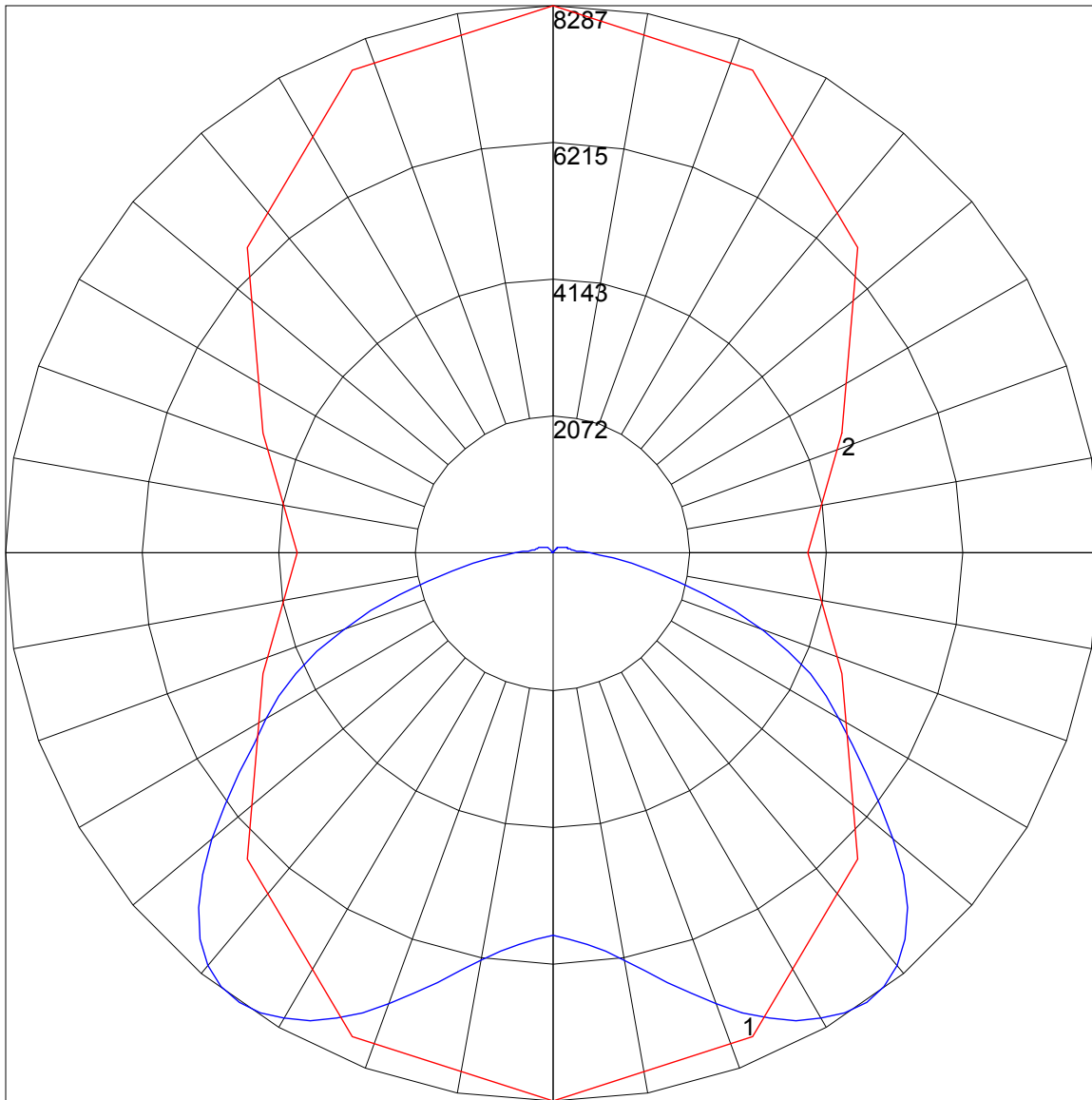
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-A-LFP.IES

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	105	100	96	92	95	92	89	91	88	86	87	84	82	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	49	43	53	47	43	40
6	69	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	31	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	40	33	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 8286.62 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.)