

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33732.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-W-LFP

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

[LAMP] LED. LUMINAIRE OUTPUT = 20040 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	168
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.66
Spacing Criterion (Diagonal)	1.60
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	12784	11272	11232
55	10230	8625	8468
65	7419	5769	6097
75	4911	3593	3648
85	2096	1875	2055

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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	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98
2.5	5385.61	5393.37	5409.51	5417.06	5423.22	5417.06	5409.51	5393.37	5385.61	5393.37
5.0	5436.19	5439.32	5452.25	5458.10	5457.97	5458.10	5452.25	5439.32	5436.19	5439.32
7.5	5514.50	5512.92	5518.74	5518.06	5515.03	5518.06	5518.74	5512.92	5514.50	5512.92
10.0	5612.89	5610.20	5607.67	5602.61	5590.43	5602.61	5607.67	5610.20	5612.89	5610.20
12.5	5726.91	5727.59	5713.48	5690.36	5680.57	5690.36	5713.48	5727.59	5726.91	5727.59
15.0	5845.17	5852.25	5832.84	5796.51	5777.77	5796.51	5832.84	5852.25	5845.17	5852.25
17.5	5958.77	5972.91	5949.19	5910.24	5885.43	5910.24	5949.19	5972.91	5958.77	5972.91
20.0	6058.12	6078.22	6059.41	6020.85	5996.00	6020.85	6059.41	6078.22	6058.12	6078.22
22.5	6124.87	6156.04	6151.18	6127.72	6102.30	6127.72	6151.18	6156.04	6124.87	6156.04
25.0	6163.68	6203.67	6219.60	6216.64	6194.81	6216.64	6219.60	6203.67	6163.68	6203.67
27.5	6150.51	6208.43	6252.02	6277.23	6256.51	6277.23	6252.02	6208.43	6150.51	6208.43
30.0	6088.34	6167.81	6243.77	6298.67	6286.40	6298.67	6243.77	6167.81	6088.34	6167.81
32.5	5976.66	6074.82	6187.76	6268.45	6270.55	6268.45	6187.76	6074.82	5976.66	6074.82
35.0	5813.64	5934.80	6073.23	6187.94	6208.10	6187.94	6073.23	5934.80	5813.64	5934.80
37.5	5602.73	5741.34	5907.90	6063.33	6086.78	6063.33	5907.90	5741.34	5602.73	5741.34
40.0	5351.21	5499.85	5703.89	5878.43	5890.90	5878.43	5703.89	5499.85	5351.21	5499.85
42.5	5053.03	5224.32	5451.80	5620.26	5627.54	5620.26	5451.80	5224.32	5053.03	5224.32
45.0	4710.99	4912.17	5150.99	5295.42	5291.12	5295.42	5150.99	4912.17	4710.99	4912.17
47.5	4340.49	4553.62	4801.01	4920.01	4912.11	4920.01	4801.01	4553.62	4340.49	4553.62
50.0	3958.56	4169.70	4408.31	4506.88	4495.90	4506.88	4408.31	4169.70	3958.56	4169.70
52.5	3575.40	3782.20	3996.39	4069.19	4063.70	4069.19	3996.39	3782.20	3575.40	3782.20
55.0	3194.64	3391.47	3577.24	3634.19	3650.64	3634.19	3577.24	3391.47	3194.64	3391.47
57.5	2819.41	3006.57	3166.68	3235.70	3278.07	3235.70	3166.68	3006.57	2819.41	3006.57
60.0	2460.81	2636.33	2771.46	2879.62	2949.24	2879.62	2771.46	2636.33	2460.81	2636.33
62.5	2130.28	2289.46	2406.31	2557.86	2631.66	2557.86	2406.31	2289.46	2130.28	2289.46
65.0	1829.19	1970.37	2076.53	2250.13	2304.73	2250.13	2076.53	1970.37	1829.19	1970.37
67.5	1553.31	1676.82	1781.00	1942.16	1979.95	1942.16	1781.00	1676.82	1553.31	1676.82
70.0	1297.76	1409.67	1515.26	1647.55	1669.06	1647.55	1515.26	1409.67	1297.76	1409.67
72.5	1063.85	1169.53	1274.37	1376.15	1387.81	1376.15	1274.37	1169.53	1063.85	1169.53
75.0	851.25	950.81	1057.01	1136.83	1143.51	1136.83	1057.01	950.81	851.25	950.81
77.5	657.75	751.52	861.30	927.88	934.79	927.88	861.30	751.52	657.75	751.52
80.0	481.71	572.19	687.97	750.50	759.94	750.50	687.97	572.19	481.71	572.19
82.5	326.04	416.71	537.72	601.41	614.48	601.41	537.72	416.71	326.04	416.71
85.0	198.87	289.72	411.52	475.99	491.96	475.99	411.52	289.72	198.87	289.72
87.5	111.60	201.77	320.76	382.21	398.19	382.21	320.76	201.77	111.60	201.77
90.0	77.15	145.29	251.56	307.44	323.52	307.44	251.56	145.29	77.15	145.29
92.5	73.21	115.90	202.56	251.25	265.72	251.25	202.56	115.90	73.21	115.90
95.0	72.40	105.46	169.45	211.76	224.63	211.76	169.45	105.46	72.40	105.46
97.5	72.20	99.89	151.39	186.16	197.64	186.16	151.39	99.89	72.20	99.89
100.0	71.62	94.40	142.26	172.40	181.76	172.40	142.26	94.40	71.62	94.40
102.5	69.92	89.81	135.78	165.66	174.05	165.66	135.78	89.81	69.92	89.81
105.0	67.33	84.97	131.13	162.29	170.75	162.29	131.13	84.97	67.33	84.97
107.5	64.21	80.78	126.17	158.50	168.03	158.50	126.17	80.78	64.21	80.78
110.0	60.68	75.77	121.30	154.05	164.24	154.05	121.30	75.77	60.68	75.77
112.5	56.33	70.12	115.84	148.68	159.19	148.68	115.84	70.12	56.33	70.12
115.0	51.57	64.24	109.53	141.68	152.52	141.68	109.53	64.24	51.57	64.24
117.5	46.80	57.76	103.09	134.22	144.91	134.22	103.09	57.76	46.80	57.76
120.0	42.25	51.22	96.00	126.75	137.30	126.75	96.00	51.22	42.25	51.22
122.5	37.71	44.62	88.83	119.25	128.59	119.25	88.83	44.62	37.71	44.62
125.0	33.14	38.36	81.53	110.55	120.09	110.55	81.53	38.36	33.14	38.36
127.5	28.87	31.32	73.05	102.73	112.75	102.73	73.05	31.32	28.87	31.32
130.0	24.94	25.36	64.87	95.06	104.58	95.06	64.87	25.36	24.94	25.36
132.5	21.55	20.37	56.69	86.95	95.85	86.95	56.69	20.37	21.55	20.37

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CANDELA TABULATION - (Cont.)

135.0	18.55	16.13	48.29	78.27	86.77	78.27	48.29	16.13	18.55	16.13
137.5	15.51	13.16	39.61	69.11	77.70	69.11	39.61	13.16	15.51	13.16
140.0	12.47	10.81	31.39	60.01	68.30	60.01	31.39	10.81	12.47	10.81
142.5	10.28	8.47	23.72	50.78	58.41	50.78	23.72	8.47	10.28	8.47
145.0	8.00	6.86	16.62	41.49	48.57	41.49	16.62	6.86	8.00	6.86
147.5	6.00	5.34	10.86	32.54	39.10	32.54	10.86	5.34	6.00	5.34
150.0	4.62	3.85	5.87	23.65	29.96	23.65	5.87	3.85	4.62	3.85
152.5	3.45	3.01	3.79	15.81	21.10	15.81	3.79	3.01	3.45	3.01
155.0	2.79	2.80	3.45	8.64	12.87	8.64	3.45	2.80	2.79	2.80
157.5	2.74	2.78	3.28	3.88	6.95	3.88	3.28	2.78	2.74	2.78
160.0	2.81	2.51	3.06	3.49	3.81	3.49	3.06	2.51	2.81	2.51
162.5	2.64	2.79	2.94	3.25	3.57	3.25	2.94	2.79	2.64	2.79
165.0	2.60	2.62	2.77	3.11	3.27	3.11	2.77	2.62	2.60	2.62
167.5	2.50	2.69	2.55	2.82	2.92	2.82	2.55	2.69	2.50	2.69
170.0	2.37	2.44	2.43	2.72	2.80	2.72	2.43	2.44	2.37	2.44
172.5	2.49	2.51	2.46	2.62	2.57	2.62	2.46	2.51	2.49	2.51
175.0	2.53	2.66	2.51	2.67	2.58	2.67	2.51	2.66	2.53	2.66
177.5	2.50	2.68	2.42	2.51	2.71	2.51	2.42	2.68	2.50	2.68
180.0	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63

**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	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98	5392.98
2.5	5409.51	5417.06	5423.22	5417.06	5409.51	5393.37	5385.61
5.0	5452.25	5458.10	5457.97	5458.10	5452.25	5439.32	5436.19
7.5	5518.74	5518.06	5515.03	5518.06	5518.74	5512.92	5514.50
10.0	5607.67	5602.61	5590.43	5602.61	5607.67	5610.20	5612.89
12.5	5713.48	5690.36	5680.57	5690.36	5713.48	5727.59	5726.91
15.0	5832.84	5796.51	5777.77	5796.51	5832.84	5852.25	5845.17
17.5	5949.19	5910.24	5885.43	5910.24	5949.19	5972.91	5958.77
20.0	6059.41	6020.85	5996.00	6020.85	6059.41	6078.22	6058.12
22.5	6151.18	6127.72	6102.30	6127.72	6151.18	6156.04	6124.87
25.0	6219.60	6216.64	6194.81	6216.64	6219.60	6203.67	6163.68
27.5	6252.02	6277.23	6256.51	6277.23	6252.02	6208.43	6150.51
30.0	6243.77	6298.67	6286.40	6298.67	6243.77	6167.81	6088.34
32.5	6187.76	6268.45	6270.55	6268.45	6187.76	6074.82	5976.66
35.0	6073.23	6187.94	6208.10	6187.94	6073.23	5934.80	5813.64
37.5	5907.90	6063.33	6086.78	6063.33	5907.90	5741.34	5602.73
40.0	5703.89	5878.43	5890.90	5878.43	5703.89	5499.85	5351.21
42.5	5451.80	5620.26	5627.54	5620.26	5451.80	5224.32	5053.03
45.0	5150.99	5295.42	5291.12	5295.42	5150.99	4912.17	4710.99
47.5	4801.01	4920.01	4912.11	4920.01	4801.01	4553.62	4340.49
50.0	4408.31	4506.88	4495.90	4506.88	4408.31	4169.70	3958.56
52.5	3996.39	4069.19	4063.70	4069.19	3996.39	3782.20	3575.40
55.0	3577.24	3634.19	3650.64	3634.19	3577.24	3391.47	3194.64
57.5	3166.68	3235.70	3278.07	3235.70	3166.68	3006.57	2819.41
60.0	2771.46	2879.62	2949.24	2879.62	2771.46	2636.33	2460.81
62.5	2406.31	2557.86	2631.66	2557.86	2406.31	2289.46	2130.28
65.0	2076.53	2250.13	2304.73	2250.13	2076.53	1970.37	1829.19
67.5	1781.00	1942.16	1979.95	1942.16	1781.00	1676.82	1553.31
70.0	1515.26	1647.55	1669.06	1647.55	1515.26	1409.67	1297.76
72.5	1274.37	1376.15	1387.81	1376.15	1274.37	1169.53	1063.85
75.0	1057.01	1136.83	1143.51	1136.83	1057.01	950.81	851.25
77.5	861.30	927.88	934.79	927.88	861.30	751.52	657.75
80.0	687.97	750.50	759.94	750.50	687.97	572.19	481.71

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CANDELA TABULATION - (Cont.)

82.5	537.72	601.41	614.48	601.41	537.72	416.71	326.04
85.0	411.52	475.99	491.96	475.99	411.52	289.72	198.87
87.5	320.76	382.21	398.19	382.21	320.76	201.77	111.60
90.0	251.56	307.44	323.52	307.44	251.56	145.29	77.15
92.5	202.56	251.25	265.72	251.25	202.56	115.90	73.21
95.0	169.45	211.76	224.63	211.76	169.45	105.46	72.40
97.5	151.39	186.16	197.64	186.16	151.39	99.89	72.20
100.0	142.26	172.40	181.76	172.40	142.26	94.40	71.62
102.5	135.78	165.66	174.05	165.66	135.78	89.81	69.92
105.0	131.13	162.29	170.75	162.29	131.13	84.97	67.33
107.5	126.17	158.50	168.03	158.50	126.17	80.78	64.21
110.0	121.30	154.05	164.24	154.05	121.30	75.77	60.68
112.5	115.84	148.68	159.19	148.68	115.84	70.12	56.33
115.0	109.53	141.68	152.52	141.68	109.53	64.24	51.57
117.5	103.09	134.22	144.91	134.22	103.09	57.76	46.80
120.0	96.00	126.75	137.30	126.75	96.00	51.22	42.25
122.5	88.83	119.25	128.59	119.25	88.83	44.62	37.71
125.0	81.53	110.55	120.09	110.55	81.53	38.36	33.14
127.5	73.05	102.73	112.75	102.73	73.05	31.32	28.87
130.0	64.87	95.06	104.58	95.06	64.87	25.36	24.94
132.5	56.69	86.95	95.85	86.95	56.69	20.37	21.55
135.0	48.29	78.27	86.77	78.27	48.29	16.13	18.55
137.5	39.61	69.11	77.70	69.11	39.61	13.16	15.51
140.0	31.39	60.01	68.30	60.01	31.39	10.81	12.47
142.5	23.72	50.78	58.41	50.78	23.72	8.47	10.28
145.0	16.62	41.49	48.57	41.49	16.62	6.86	8.00
147.5	10.86	32.54	39.10	32.54	10.86	5.34	6.00
150.0	5.87	23.65	29.96	23.65	5.87	3.85	4.62
152.5	3.79	15.81	21.10	15.81	3.79	3.01	3.45
155.0	3.45	8.64	12.87	8.64	3.45	2.80	2.79
157.5	3.28	3.88	6.95	3.88	3.28	2.78	2.74
160.0	3.06	3.49	3.81	3.49	3.06	2.51	2.81
162.5	2.94	3.25	3.57	3.25	2.94	2.79	2.64
165.0	2.77	3.11	3.27	3.11	2.77	2.62	2.60
167.5	2.55	2.82	2.92	2.82	2.55	2.69	2.50
170.0	2.43	2.72	2.80	2.72	2.43	2.44	2.37
172.5	2.46	2.62	2.57	2.62	2.46	2.51	2.49
175.0	2.51	2.67	2.58	2.67	2.51	2.66	2.53
177.5	2.42	2.51	2.71	2.51	2.42	2.68	2.50
180.0	2.63	2.63	2.63	2.63	2.63	2.63	2.63

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2182.55	N.A.	10.90
0-30	5044.72	N.A.	25.20
0-40	8815.82	N.A.	44.00
0-60	15860.95	N.A.	79.10
0-80	19055.21	N.A.	95.10
0-90	19496.27	N.A.	97.30
10-90	18971.14	N.A.	94.70
20-40	6633.27	N.A.	33.10
20-50	10534.99	N.A.	52.60
40-70	9127.37	N.A.	45.50
60-80	3194.26	N.A.	15.90
70-80	1112.02	N.A.	5.50
80-90	441.06	N.A.	2.20
90-110	313.74	N.A.	1.60
90-120	417.16	N.A.	2.10
90-130	486.25	N.A.	2.40
90-150	539.57	N.A.	2.70
90-180	543.77	N.A.	2.70
110-180	230.03	N.A.	1.10
0-180	20040.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	525.13
10-20	1657.43
20-30	2862.17
30-40	3771.1
40-50	3901.72
50-60	3143.41
60-70	2082.24
70-80	1112.02
80-90	441.06
90-100	181.97
100-110	131.77
110-120	103.42
120-130	69.09
130-140	38.18
140-150	15.14
150-160	3.14
160-170	0.82
170-180	0.24

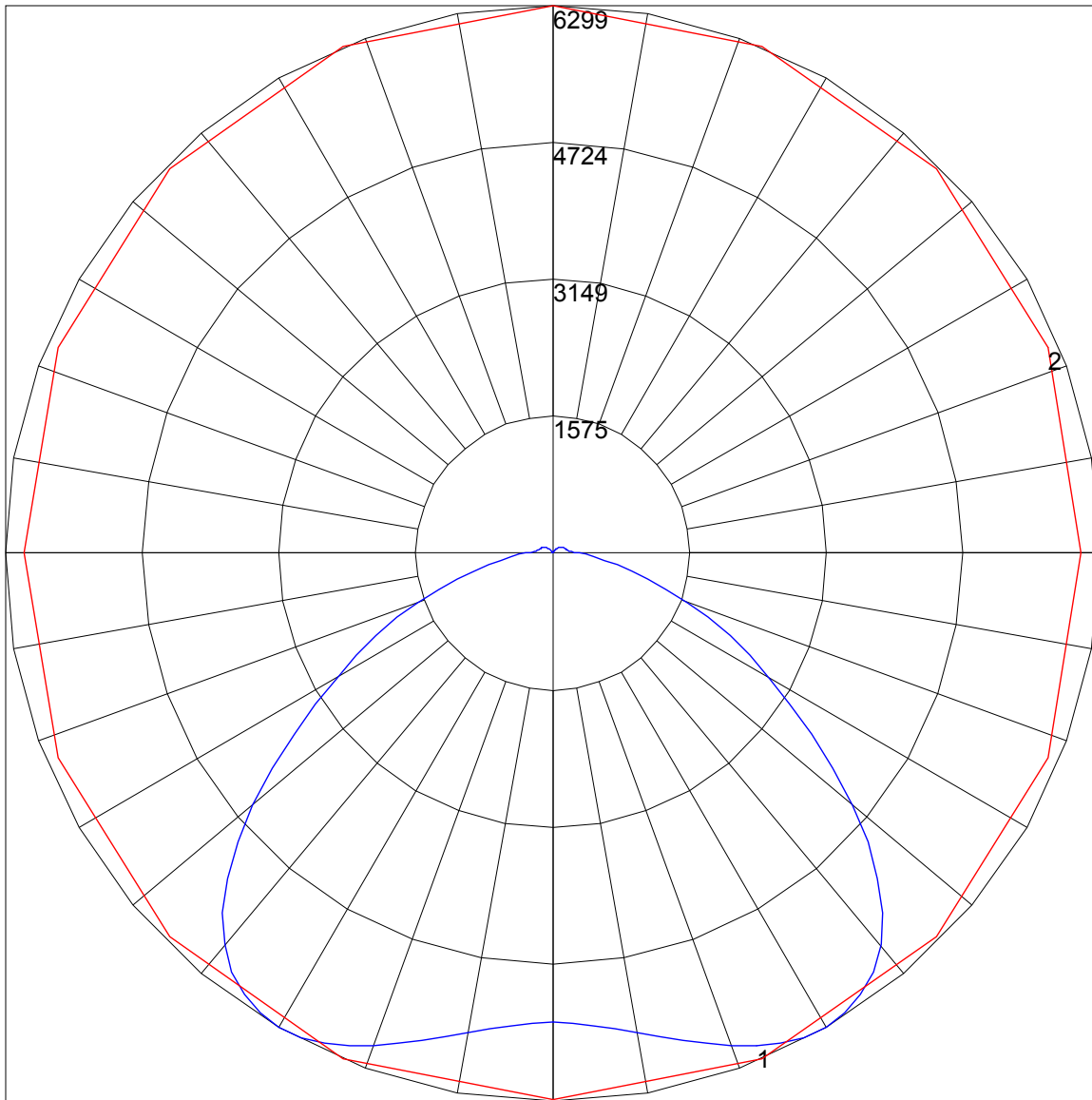
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	108	104	99	95	105	101	97	94	96	93	90	92	89	87	88	86	84	82
2	99	90	84	78	96	88	82	77	84	79	75	81	76	73	77	74	71	68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	68	64	60	58
4	82	70	62	55	80	69	61	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	41	53	46	40	51	45	40	49	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	31	29
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 6298.67 Located At Horizontal Angle = 67.5, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)