

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

IESNA:LM-63-2002

[TEST] FO33731.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/28/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX16LL40-UNV-W-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS WIDE OPTICS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 15343 LMS

[TESTDATE] 10/28/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	122.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.68
Spacing Criterion (Diagonal)	1.62
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	9830	8670	8629
55	7841	6640	6500
65	5680	4418	4659
75	3740	2732	2757
85	1597	1406	1547

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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	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96
2.5	4117.61	4122.85	4136.11	4141.84	4146.34	4141.84	4136.11	4122.85	4117.61	4122.85
5.0	4156.86	4158.42	4168.64	4172.62	4172.76	4172.62	4168.64	4158.42	4156.86	4158.42
7.5	4217.72	4214.96	4219.86	4218.83	4216.83	4218.83	4219.86	4214.96	4217.72	4214.96
10.0	4293.82	4291.15	4287.34	4283.06	4273.55	4283.06	4287.34	4291.15	4293.82	4291.15
12.5	4380.39	4381.02	4370.54	4351.34	4340.86	4351.34	4370.54	4381.02	4380.39	4381.02
15.0	4471.06	4476.57	4460.03	4431.29	4415.23	4431.29	4460.03	4476.57	4471.06	4476.57
17.5	4560.18	4570.37	4550.38	4517.30	4498.23	4517.30	4550.38	4570.37	4560.18	4570.37
20.0	4636.38	4651.80	4635.87	4603.09	4582.03	4603.09	4635.87	4651.80	4636.38	4651.80
22.5	4692.51	4713.90	4706.74	4687.44	4666.40	4687.44	4706.74	4713.90	4692.51	4713.90
25.0	4722.28	4751.30	4760.78	4755.44	4737.35	4755.44	4760.78	4751.30	4722.28	4751.30
27.5	4716.91	4757.68	4788.78	4803.47	4786.77	4803.47	4788.78	4757.68	4716.91	4757.68
30.0	4673.51	4727.60	4785.98	4823.43	4812.67	4823.43	4785.98	4727.60	4673.51	4727.60
32.5	4588.12	4660.23	4744.48	4800.95	4804.72	4800.95	4744.48	4660.23	4588.12	4660.23
35.0	4464.77	4554.23	4661.13	4742.61	4761.29	4742.61	4661.13	4554.23	4464.77	4554.23
37.5	4309.09	4409.23	4536.84	4647.86	4669.34	4647.86	4536.84	4409.23	4309.09	4409.23
40.0	4117.10	4227.77	4381.85	4506.96	4521.27	4506.96	4381.85	4227.77	4117.10	4227.77
42.5	3885.89	4017.24	4192.07	4313.24	4319.60	4313.24	4192.07	4017.24	3885.89	4017.24
45.0	3622.36	3775.01	3962.03	4066.57	4064.74	4066.57	3962.03	3775.01	3622.36	3775.01
47.5	3340.74	3498.75	3692.23	3778.41	3771.20	3778.41	3692.23	3498.75	3340.74	3498.75
50.0	3049.15	3204.06	3391.66	3461.80	3446.87	3461.80	3391.66	3204.06	3049.15	3204.06
52.5	2750.09	2904.53	3075.50	3125.66	3117.22	3125.66	3075.50	2904.53	2750.09	2904.53
55.0	2448.53	2604.59	2754.03	2790.46	2802.10	2790.46	2754.03	2604.59	2448.53	2604.59
57.5	2158.37	2308.02	2434.61	2481.35	2514.84	2481.35	2434.61	2308.02	2158.37	2308.02
60.0	1886.28	2021.10	2130.13	2208.66	2259.22	2208.66	2130.13	2021.10	1886.28	2021.10
62.5	1634.09	1752.51	1846.36	1961.70	2012.77	1961.70	1846.36	1752.51	1634.09	1752.51
65.0	1400.46	1507.47	1590.20	1721.99	1761.21	1721.99	1590.20	1507.47	1400.46	1507.47
67.5	1185.36	1282.98	1363.17	1485.17	1507.47	1485.17	1363.17	1282.98	1185.36	1282.98
70.0	989.65	1076.86	1158.20	1259.26	1265.64	1259.26	1158.20	1076.86	989.65	1076.86
72.5	811.18	891.71	972.78	1051.30	1050.57	1051.30	972.78	891.71	811.18	891.71
75.0	648.38	724.35	803.79	864.57	864.20	864.57	803.79	724.35	648.38	724.35
77.5	499.52	571.92	653.18	704.24	705.66	704.24	653.18	571.92	499.52	571.92
80.0	365.55	434.58	519.68	569.23	572.73	569.23	519.68	434.58	365.55	434.58
82.5	247.78	315.14	404.32	456.07	463.22	456.07	404.32	315.14	247.78	315.14
85.0	151.55	217.85	308.72	360.53	370.33	360.53	308.72	217.85	151.55	217.85
87.5	84.76	150.46	239.60	288.24	298.34	288.24	239.60	150.46	84.76	150.46
90.0	58.22	108.02	187.24	231.33	242.02	231.33	187.24	108.02	58.22	108.02
92.5	55.30	86.08	150.28	188.56	198.54	188.56	150.28	86.08	55.30	86.08
95.0	54.72	78.57	126.03	158.52	167.67	158.52	126.03	78.57	54.72	78.57
97.5	54.56	74.38	112.65	139.26	147.37	139.26	112.65	74.38	54.56	74.38
100.0	54.20	70.43	105.91	128.76	135.80	128.76	105.91	70.43	54.20	70.43
102.5	52.87	66.83	101.13	123.86	130.15	123.86	101.13	66.83	52.87	66.83
105.0	50.96	63.49	97.61	121.34	127.80	121.34	97.61	63.49	50.96	63.49
107.5	48.63	60.11	94.12	118.56	125.82	118.56	94.12	60.11	48.63	60.11
110.0	45.80	56.53	90.41	115.27	123.02	115.27	90.41	56.53	45.80	56.53
112.5	42.49	52.41	86.25	111.05	119.20	111.05	86.25	52.41	42.49	52.41
115.0	38.96	47.79	81.58	105.90	114.21	105.90	81.58	47.79	38.96	47.79
117.5	35.44	42.86	76.64	100.28	108.53	100.28	76.64	42.86	35.44	42.86
120.0	31.96	37.84	71.44	94.69	102.74	94.69	71.44	37.84	31.96	37.84
122.5	28.45	32.86	66.08	88.81	96.09	88.81	66.08	32.86	28.45	32.86
125.0	24.93	27.97	60.45	82.20	89.70	82.20	60.45	27.97	24.93	27.97
127.5	21.65	22.73	54.28	76.30	84.15	76.30	54.28	22.73	21.65	22.73
130.0	18.71	18.22	48.03	70.71	77.96	70.71	48.03	18.22	18.71	18.22
132.5	16.11	14.66	41.79	64.44	71.35	64.44	41.79	14.66	16.11	14.66

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CANDELA TABULATION - (Cont.)

135.0	13.68	11.74	35.37	57.84	64.74	57.84	35.37	11.74	13.68	11.74
137.5	11.47	9.69	28.91	51.15	57.90	51.15	28.91	9.69	11.47	9.69
140.0	9.40	7.85	22.72	44.33	50.66	44.33	22.72	7.85	9.40	7.85
142.5	7.53	6.26	16.82	37.20	43.50	37.20	16.82	6.26	7.53	6.26
145.0	5.92	4.74	11.57	30.32	36.27	30.32	11.57	4.74	5.92	4.74
147.5	4.42	3.54	7.14	23.55	28.97	23.55	7.14	3.54	4.42	3.54
150.0	3.31	2.56	3.44	17.10	21.89	17.10	3.44	2.56	3.31	2.56
152.5	2.27	1.82	2.22	11.14	15.14	11.14	2.22	1.82	2.27	1.82
155.0	1.61	1.59	2.02	5.66	9.17	5.66	2.02	1.59	1.61	1.59
157.5	1.52	1.56	1.84	2.39	4.53	2.39	1.84	1.56	1.52	1.56
160.0	1.50	1.56	1.72	2.05	2.29	2.05	1.72	1.56	1.50	1.56
162.5	1.53	1.52	1.67	1.80	2.00	1.80	1.67	1.52	1.53	1.52
165.0	1.51	1.45	1.51	1.67	1.74	1.67	1.51	1.45	1.51	1.45
167.5	1.36	1.33	1.29	1.48	1.54	1.48	1.29	1.33	1.36	1.33
170.0	1.32	1.29	1.24	1.34	1.37	1.34	1.24	1.29	1.32	1.29
172.5	1.40	1.35	1.27	1.31	1.33	1.31	1.27	1.35	1.40	1.35
175.0	1.43	1.41	1.30	1.30	1.33	1.30	1.30	1.41	1.43	1.41
177.5	1.50	1.49	1.25	1.32	1.34	1.32	1.25	1.49	1.50	1.49
180.0	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36

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	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96	4122.96
2.5	4136.11	4141.84	4146.34	4141.84	4136.11	4122.85	4117.61
5.0	4168.64	4172.62	4172.76	4172.62	4168.64	4158.42	4156.86
7.5	4219.86	4218.83	4216.83	4218.83	4219.86	4214.96	4217.72
10.0	4287.34	4283.06	4273.55	4283.06	4287.34	4291.15	4293.82
12.5	4370.54	4351.34	4340.86	4351.34	4370.54	4381.02	4380.39
15.0	4460.03	4431.29	4415.23	4431.29	4460.03	4476.57	4471.06
17.5	4550.38	4517.30	4498.23	4517.30	4550.38	4570.37	4560.18
20.0	4635.87	4603.09	4582.03	4603.09	4635.87	4651.80	4636.38
22.5	4706.74	4687.44	4666.40	4687.44	4706.74	4713.90	4692.51
25.0	4760.78	4755.44	4737.35	4755.44	4760.78	4751.30	4722.28
27.5	4788.78	4803.47	4786.77	4803.47	4788.78	4757.68	4716.91
30.0	4785.98	4823.43	4812.67	4823.43	4785.98	4727.60	4673.51
32.5	4744.48	4800.95	4804.72	4800.95	4744.48	4660.23	4588.12
35.0	4661.13	4742.61	4761.29	4742.61	4661.13	4554.23	4464.77
37.5	4536.84	4647.86	4669.34	4647.86	4536.84	4409.23	4309.09
40.0	4381.85	4506.96	4521.27	4506.96	4381.85	4227.77	4117.10
42.5	4192.07	4313.24	4319.60	4313.24	4192.07	4017.24	3885.89
45.0	3962.03	4066.57	4064.74	4066.57	3962.03	3775.01	3622.36
47.5	3692.23	3778.41	3771.20	3778.41	3692.23	3498.75	3340.74
50.0	3391.66	3461.80	3446.87	3461.80	3391.66	3204.06	3049.15
52.5	3075.50	3125.66	3117.22	3125.66	3075.50	2904.53	2750.09
55.0	2754.03	2790.46	2802.10	2790.46	2754.03	2604.59	2448.53
57.5	2434.61	2481.35	2514.84	2481.35	2434.61	2308.02	2158.37
60.0	2130.13	2208.66	2259.22	2208.66	2130.13	2021.10	1886.28
62.5	1846.36	1961.70	2012.77	1961.70	1846.36	1752.51	1634.09
65.0	1590.20	1721.99	1761.21	1721.99	1590.20	1507.47	1400.46
67.5	1363.17	1485.17	1507.47	1485.17	1363.17	1282.98	1185.36
70.0	1158.20	1259.26	1265.64	1259.26	1158.20	1076.86	989.65
72.5	972.78	1051.30	1050.57	1051.30	972.78	891.71	811.18
75.0	803.79	864.57	864.20	864.57	803.79	724.35	648.38
77.5	653.18	704.24	705.66	704.24	653.18	571.92	499.52
80.0	519.68	569.23	572.73	569.23	519.68	434.58	365.55

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CANDELA TABULATION - (Cont.)

82.5	404.32	456.07	463.22	456.07	404.32	315.14	247.78
85.0	308.72	360.53	370.33	360.53	308.72	217.85	151.55
87.5	239.60	288.24	298.34	288.24	239.60	150.46	84.76
90.0	187.24	231.33	242.02	231.33	187.24	108.02	58.22
92.5	150.28	188.56	198.54	188.56	150.28	86.08	55.30
95.0	126.03	158.52	167.67	158.52	126.03	78.57	54.72
97.5	112.65	139.26	147.37	139.26	112.65	74.38	54.56
100.0	105.91	128.76	135.80	128.76	105.91	70.43	54.20
102.5	101.13	123.86	130.15	123.86	101.13	66.83	52.87
105.0	97.61	121.34	127.80	121.34	97.61	63.49	50.96
107.5	94.12	118.56	125.82	118.56	94.12	60.11	48.63
110.0	90.41	115.27	123.02	115.27	90.41	56.53	45.80
112.5	86.25	111.05	119.20	111.05	86.25	52.41	42.49
115.0	81.58	105.90	114.21	105.90	81.58	47.79	38.96
117.5	76.64	100.28	108.53	100.28	76.64	42.86	35.44
120.0	71.44	94.69	102.74	94.69	71.44	37.84	31.96
122.5	66.08	88.81	96.09	88.81	66.08	32.86	28.45
125.0	60.45	82.20	89.70	82.20	60.45	27.97	24.93
127.5	54.28	76.30	84.15	76.30	54.28	22.73	21.65
130.0	48.03	70.71	77.96	70.71	48.03	18.22	18.71
132.5	41.79	64.44	71.35	64.44	41.79	14.66	16.11
135.0	35.37	57.84	64.74	57.84	35.37	11.74	13.68
137.5	28.91	51.15	57.90	51.15	28.91	9.69	11.47
140.0	22.72	44.33	50.66	44.33	22.72	7.85	9.40
142.5	16.82	37.20	43.50	37.20	16.82	6.26	7.53
145.0	11.57	30.32	36.27	30.32	11.57	4.74	5.92
147.5	7.14	23.55	28.97	23.55	7.14	3.54	4.42
150.0	3.44	17.10	21.89	17.10	3.44	2.56	3.31
152.5	2.22	11.14	15.14	11.14	2.22	1.82	2.27
155.0	2.02	5.66	9.17	5.66	2.02	1.59	1.61
157.5	1.84	2.39	4.53	2.39	1.84	1.56	1.52
160.0	1.72	2.05	2.29	2.05	1.72	1.56	1.50
162.5	1.67	1.80	2.00	1.80	1.67	1.52	1.53
165.0	1.51	1.67	1.74	1.67	1.51	1.45	1.51
167.5	1.29	1.48	1.54	1.48	1.29	1.33	1.36
170.0	1.24	1.34	1.37	1.34	1.24	1.29	1.32
172.5	1.27	1.31	1.33	1.31	1.27	1.35	1.40
175.0	1.30	1.30	1.33	1.30	1.30	1.41	1.43
177.5	1.25	1.32	1.34	1.32	1.25	1.49	1.50
180.0	1.36	1.36	1.36	1.36	1.36	1.36	1.36

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1669.04	N.A.	10.90
0-30	3860.33	N.A.	25.20
0-40	6753.44	N.A.	44.00
0-60	12165.85	N.A.	79.30
0-80	14605.86	N.A.	95.20
0-90	14938.44	N.A.	97.40
10-90	14536.93	N.A.	94.70
20-40	5084.4	N.A.	33.10
20-50	8082.56	N.A.	52.70
40-70	7006.33	N.A.	45.70
60-80	2440.01	N.A.	15.90
70-80	846.08	N.A.	5.50
80-90	332.58	N.A.	2.20
90-110	234.38	N.A.	1.50
90-120	311.62	N.A.	2.00
90-130	362.97	N.A.	2.40
90-150	402.18	N.A.	2.60
90-180	404.84	N.A.	2.60
110-180	170.46	N.A.	1.10
0-180	15343.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	401.51
10-20	1267.53
20-30	2191.29
30-40	2893.11
40-50	2998.16
50-60	2414.25
60-70	1593.92
70-80	846.08
80-90	332.58
90-100	135.91
100-110	98.47
110-120	77.24
120-130	51.35
130-140	28.20
140-150	11.00
150-160	2.09
160-170	0.45
170-180	0.13

IES INDOOR REPORT

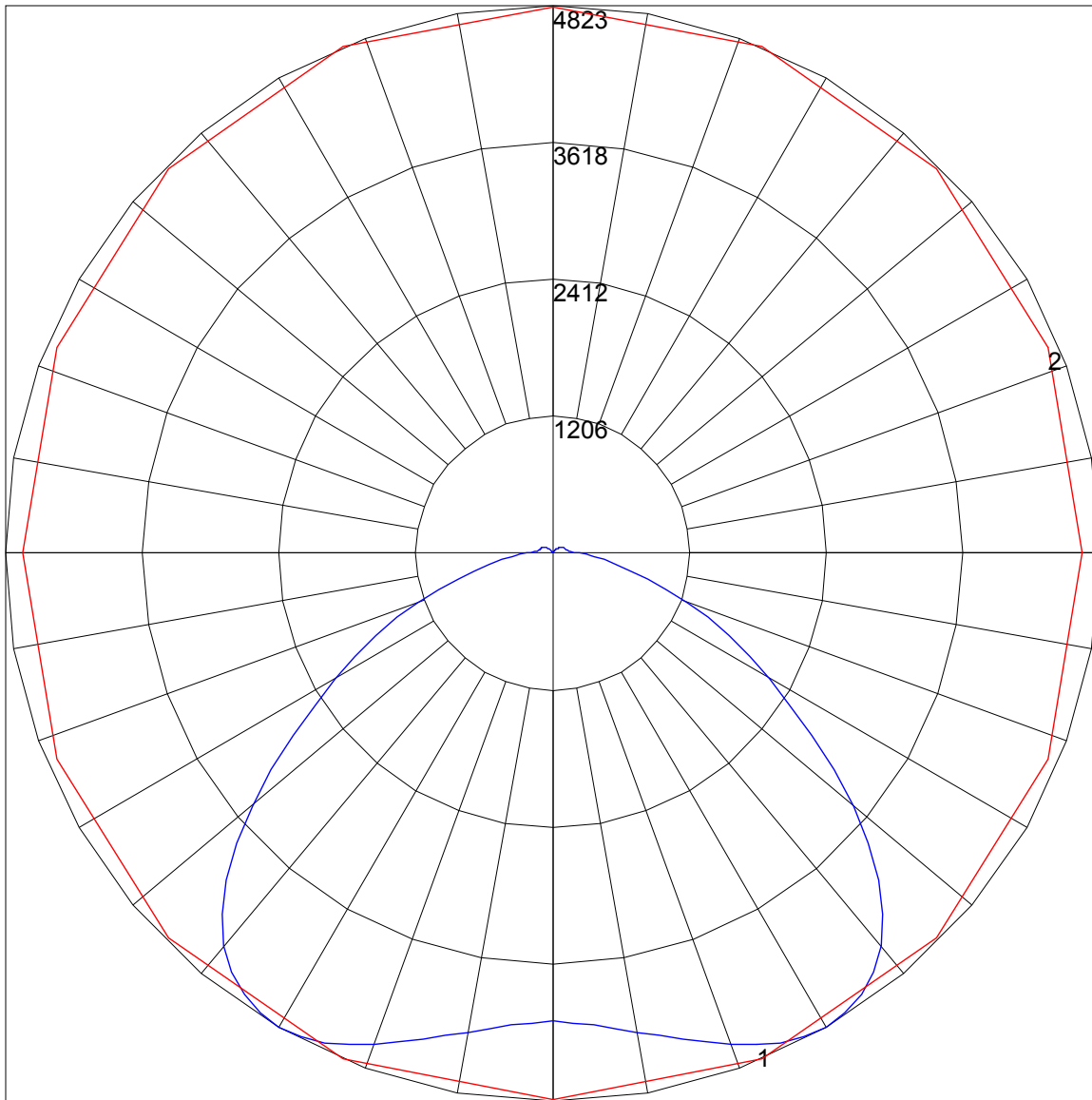
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	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	47	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	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 4823.43 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.)