

See original or copy: <http://web.me.com/klaus.richter/ME43/ME43LONA.TXT> /.PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20101101-ME43/ME43LONA.TXT /.PS
 application for measurement of printer or monitor systems

TUB material: code=rha4ta

standard tristimulus values for 2°-observer and standard illuminant D65							
λ/nm	$\bar{x}(\lambda)S(\lambda)$	$\bar{y}(\lambda)S(\lambda)$	$\bar{z}(\lambda)S(\lambda)$	λ/nm	$\bar{x}(\lambda)S(\lambda)$	$\bar{y}(\lambda)S(\lambda)$	$\bar{z}(\lambda)S(\lambda)$
380	0,0065	0,0002	0,0305				
390	0,0219	0,0006	0,1036				
400	0,1121	0,0031	0,5316	600	9,0463	5,3739	0,0068
410	0,3767	0,0105	1,7958	610	8,5007	4,2648	0,0029
420	1,1879	0,0354	5,7060	620	7,0906	3,1619	0,0016
430	2,3292	0,0952	11,3678	630	5,0637	2,0889	0,0004
440	3,4574	0,2283	17,3426	640	3,5475	1,3861	0,0002
450	3,7222	0,4207	19,6198	650	2,1462	0,8100	0,0000
460	3,2416	0,6688	18,6069	660	1,2515	0,4629	0,0000
470	2,1245	0,9892	13,9998	670	0,6807	0,2492	0,0000
480	1,0489	1,5245	8,9165	680	0,3465	0,1260	0,0000
490	0,3296	2,1415	4,7895	690	0,1497	0,0541	0,0000
500	0,0507	3,3438	2,8158	700	0,0770	0,0278	0,0000
510	0,0949	5,1311	1,6138	710	0,0407	0,0147	0,0000
520	0,6275	7,0411	0,7760	720	0,0169	0,0061	0,0000
530	1,6867	8,7850	0,4297	730	0,0095	0,0034	0,0000
540	2,8689	9,4247	0,2005	740	0,0049	0,0018	0,0000
550	4,2652	9,7921	0,0861	750	0,0020	0,0007	0,0000
560	5,6256	9,4155	0,0369	760	0,0007	0,0003	0,0000
570	6,9448	8,6753	0,0191				
580	8,3066	7,8869	0,0150				
590	8,6143	6,3539	0,0092	sum:	95,0188	100,0000	108,8244
CIE standard tristimulus values:				X = 95,0188 Y = 100,0000 Z = 108,8244			
CIE standard chromaticity:				x = 0,3127 y = 0,3291 z = 0,3582			

basic- and mixed colors of additive spectral colors for illuminant D65						
reflection factor $R(\lambda) = 1$	color: short name:	chromaticity values, D65	standard tristimulus values 2°, D65			
$\lambda_1 \dots \lambda_2$ in nm		x y	X	Y	Z	
<i>three additive optimal basic colors:</i>						
590 ... 700	O (J80R)	0, ... 0, ...	...	...	...	...
490 ... 590	L (G10J)	0, ... 0, ...	...	...	...	...
370 ... 490	V (R80B)	0, ... 0, ...	...	...	...	...
<i>three additive optimal mixed colors:</i>						
370 ... 590	C (B30G)	0, ... 0, ...	...	...	...	...
370 ... 490, 590 ... 770	M (R30B)	0, ... 0, ...	...	...	...	...
490 ... 770	Y (G90J)	0, ... 0, ...	...	...	...	...
370 ... 770	D65 (W)	0, ... 0, ...	...	100,00	...	...

basic and mixed additive optimal colors for illuminant D65					
basic color or mixed color and name	CIE standard chromaticity		CIE standard tristimulus value		
	x	y	X	Y	Z
<i>three additive basic optimal colors:</i>					
O orangered	0,6695	0,3302	42,65	21,04	0,02
L leafgreen	0,2991	0,6351	34,87	74,04	7,67
V violetblue	0,1445	0,0393	18,06	4,90	102,02
<i>three additive mixed optimal colors:</i>					
C cyanblue	0,2191	0,3268	52,94	78,96	109,70
M magentared	0,3218	0,1375	60,73	25,95	102,04
Y yellow	0,4300	0,5274	77,53	95,09	7,69
D65 (white)	0,3131	0,3275	95,60	100,00	109,71