

This chart is designed to help predict the results of adding color filters to a Mercury Halide Lamp as compared to an incandescent. The Mercury Halide Lamps used in this comparative chart are CDM 150 and CDM 70 which have a correlated color temperature (CCT) of 4200K and 3000K respectively.

The first column shows the GamColor[®] filter number followed by its name. The next three columns show the percentage of transmission or the amount of light in the visible range passed by an incandescent and metal Halide lamps. We have added two additional columns of comments about the appearance of the color or the shift in the color between the incandescent and the CDM lamps used in the test. These measurements are meant to be a guide. Each lamp can have a different correlated color temperature and spectral distribution. There are production variations and then there is the change in the Metal Halide Lamps themselves over time. All of these factors have an impact on the end results. However this information can be very useful in helping to predict what you might expect and to help you select the appropriate color filter for your project.

The comments are those of one trained observer. Every person is not going to have the exact same visual perception and there's always a certain amount of subjectivity. There are other variables to be concerned about including production variations, reflector characteristics and glass lenses. All of these variations alter performance so when it becomes critical, there's nothing like testing the actual fixture with the selected color filter.

Incandescent transmission % will differ from GamColor[®] Swatchbook due to the swatchbook data being generated with a 2850K Incandescent.

GamColors[®] 680 - 810 appear as different colors when CDM 150 (CCT - 4200K) is in use.

GamColor [®] Name	Osram [™] HPL 575/115 3250K Transmission %	Philips MasterColor [®] CDM 150/T6/942 CCT - 4200K Transmission %	Philips MasterColor [®] CDM 70/T6/830 CCT - 3000K Transmission %	CDM 150 vs. Incandescent Comments	CDM 70 vs. Incandescent Comments
99 Heat Shield	90	90	90		
100 Gypsy Pink	25	26	29	Less Amber	More Red
101 Lavender Blue	38	36	39	More Blue	Less Red
103 Blue Rose	26	26	28	More Blue	Virtually the Same
104 Broadway Rose	45	45	48	More Blue	Warmer
105 Antique Rose	59	59	61	Less Saturate	Less Saturate
105X 3/4 Antique Rose	62	61	63	More Blue	More Red, Less Amber
106 1/2 Antique Rose	71	71	72	More Blue	More Red, Less Amber
107 1/4 Antique Rose	76	76	78	Virtually The Same	More Red
108 1/8 Antique Rose	78	79	80	Slightly More Blue	More Red
109 Naked Pink	86	86	86	Slightly More Blue	More Red
110 Dark Rose	23	23	25	More Blue, almost Neon	Warmer
120 Bright Pink	24	24	26	More Blue, almost Neon	Less Red
130 Rose	37	37	39	More Blue, almost Neon	More Red
135 Soft Pink	41	41	44	More Red	Slightly More Red
140 Dark Magenta	11	11	12	More Blue	More Blue
150 Pink Punch	26	26	31	More Blue, almost Neon	Virtually the Same

GamColor® Name		Osram™ HPL 575/115 3250K Transmission %	Philips MasterColor® CDM 150/T6/942 CCT - 4200K Transmission %	Philips MasterColor® CDM 70/T6/830 CCT - 3000K Transmission %	CDM 150 vs. Incandescent Comments	CDM 70 vs. Incandescent Comments
150	Pink Punch	26	26	31	More Blue, almost Neon	Virtually the Same
152	Party Pink	47	47	51	More Blue	Virtually the Same
154	Baby Pink	68	67	70	More Blue	Virtually the Same
155	Light Pink	68	70	72	More Blue, Less Red	Virtually the Same
160	Chorus Pink	62	62	66	A Lot More Blue	Slightly More Red
170	Dark Flesh Pink	48	48	53	More Blue	Virtually the Same
180	Cherry	27	28	33	More Blue	Less Blue, More Red
190	Cold Pink	48	49	53	More Blue	Virtually the Same
195	Nymph Pink	52	52	57	More Blue	Slightly More Red
220	Pink Magenta	18	18	20	More Fuchsia	Less Red
235	Pink Red	19	19	20	More Fuchsia	Less Red
245	Light Red	13	14	15	More Orange	Less Red
250	Medium Red XT	7	8	9	More Orange	Virtually the Same
270	Red Orange	17	18	20	More Orange, Less Red	Virtually the Same
280	Fire Red	24	24	29	Virtually The Same	Virtually the Same
290	Fire Orange	26	26	31	Virtually The Same	Virtually the Same
305	French Rose	71	68	71	A Lot More Blue	More Pink
310	English Rose	53	52	55	More Pink	More Red
315	Autumn Glory	36	35	40	Virtually The Same	Less Yellow
320	Peach	46	45	49	More Pink, More Blue	Virtually the Same
323	Indian Summer	45	45	50	More Pink, More Blue	Virtually the Same
324	Dark Bastard Amber	54	53	56	More Pink, More Blue	Less Yellow, More Red
325	Bastard Amber	73	71	74	More Pink, More Blue	Virtually the Same
327	Pale Sepia	78	77	79	Less Yellow	Slightly Less Amber
328	Tan Tone	61	58	62	More Pink, More Blue	More Red
330	Sepia	36	35	38	More Pink, More Blue	Virtually the Same
335	Coral	45	45	49	Less Red	Virtually the Same
338	Forever Amber	86	84	83	More Blue, Less Yellow	Virtually the Same
340	Light Bastard Amber	79	76	78	More Pink, More Blue	Virtually the Same
342	Light Honey	64	63	65	Virtually The Same	Virtually the Same
343	Honey	61	59	61	Virtually The Same	Virtually the Same
345	Deep Amber	41	40	44	Virtually The Same	Less Red
350	Dark Amber	47	47	50	Virtually The Same	Less Yellow
355	Amber Flame	52	50	54	Virtually The Same	Virtually the Same
360	Amber Blush	73	70	71	Less Yellow	Virtually the Same
363	Sand	85	84	84	Less Yellow	Less Yellow, More Amber
364	Pale Honey	81	80	81	Less Yellow	Less Yellow, More Amber
365	Warm Straw	78	78	79	Less Yellow	Virtually the Same
368	Cinnamon	46	46	49	Virtually The Same	Virtually the Same
370	Spice	20	21	24	Less Yellow	More Pink, Less Yellow
375	Flame	60	60	62	Virtually The Same	More Pink, Less Yellow
380	Golden Tan	30	31	34	Virtually The Same	More Pink, Less Yellow
382	Brass	50	51	54	Less Yellow	Virtually the Same
385	Light Amber	75	74	75	More Pink, Less Yellow	Virtually the Same
388	Gold Rush	62	61	63	Virtually The Same	Less Golden
390	Walnut	8	10	12	Virtually The Same	More Red
395	Golden Sunset	63	64	67	Less Yellow	Virtually the Same
410	Yellow Gold	72	70	73	Virtually The Same	Less Yellow

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420	Medium Amber	70	70	72	Less Yellow, Whiter	Virtually the Same
425	Sunflower	70	71	74	Virtually The Same	Virtually the Same
430	Warm Ivory	64	62	65	Less Yellow, More White	More Red
433	Double Ivory	73	70	71	Less Yellow, More White	More Red, Less Yellow
435	Ivory	88	82	83	Less Yellow, More White	Virtually the Same
440	Very Light Straw	83	83	83	Less Yellow, More White	Less Yellow, More Red
450	Saffron	81	80	79	Virtually The Same	Virtually the Same
455	Yellow Sun	58	58	60	Less Yellow	Less Yellow, More Red
460	Mellow Yellow	84	83	84	Less Yellow, More White	Virtually the Same
470	Pale Gold	87	84	85	Less Yellow, More White	Less Yellow, Whiter
475	Pale Yellow	84	86	86	Less Yellow, More White	Virtually the Same
480	Medium Yellow	82	82	83	Less Yellow, More White	Virtually the Same
510	No Color Straw	85	84	86	Less Yellow, More White	More Red
515	Lime Yellow	87	87	87	More White, Less Color	Less Green
520	New Straw	84	83	84	More White, Less Color	Less Green, More Red
525	Lime Sun	85	85	86	More White, Less Color	Less Green, Barely Colored
535	Lime	76	79	80	More White, Less Color	Less Green, Barely Colored
540	Pale Green	70	72	74	Slightly More White	Less Yellow
570	Light Green Yellow	45	49	50	More Blue	Less Yellow
650	Grass Green	5	6	7	More Blue	More Blue
655	Rich Green	8	11	12	Slightly More Blue	More Blue, Less Green
660	Medium Green	32	36	37	Slightly More Blue	Virtually the Same
666	Wicked Green	27	31	32	Virtually The Same	Virtually the Same
670	Emerald Green	6	8	8	Virtually The Same	More Blue
680	Kelly Green	35	37	38	More Blue, Different Color	Less Green
685	Pistachio	28	30	31	More Blue, Different Color	Less Green, More Blue
690	Bluegrass	12	15	16	More Blue, Different Color	Less Green, More Blue
710	Blue Green	14	15	15	More Blue, Different Color	Less Green, More Blue
720	Light Steel Blue	55	55	56	More Blue, Different Color	Less Green, More Blue
725	Princess Blue	25	29	30	More Blue, Different Color	Less Green, More Blue
730	Azure Blue	23	24	24	More Blue, Different Color	Less Green, Almost Gray
740	Off Blue	12	15	16	More Blue, Different Color	Less Green, Almost Gray
750	Nile Blue	13	14	15	More Blue, Different Color	No Green, More Blue
760	Aqua Blue	13	13	13	More Blue, Different Color	Less Green, More Blue
770	Christel Blue	20	20	20	More Blue, Different Color	Less Green, Almost Gray
780	Shark Blue	31	31	31	More Blue, Different Color	Slightly More Blue
785	Beverly Blue	59	58	58	More Blue, Different Color	No Green, More Blue
790	Electric Blue	43	43	43	More Blue, Different Color	No Green, More Blue
810	Moon Blue	11	11	12	More Blue, Different Color	More Blue
813	Dark Moon Blue	3	5	6	More Blue	More Blue
815	Moody Blue	19	19	19	Less Green, More Blue	Less Green, More Blue
820	Full Light Blue	51	51	52	Less Green, More Blue	Less Green, More Blue
830	North Sky Blue	52	53	55	Less Green, More Blue	Less Green, More Blue/More Red
835	Aztec Blue	5	6	7	Less Green, More Blue	Less Green, More Blue
840	Steel Blue	20	21	20	Less Green, More Blue	Less Green, More Blue
841	Diamond Blue	10	10	11	Less Green, More Blue	Less Red, More Blue
842	Whisper Blue	41	41	42	Less Green, More Blue	Less Green, More Blue
845	Cobalt	3	4	5	Slightly More Blue	Less Red

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847 City Blue	14	14	15	Less Green	More Red
848 Bonus Blue	11	11	12	Less Green	More Red
850 Blue (Primary)	2	3	4	Virtually The Same	More Red
855 Blue Jazz	1	2	3	Virtually The Same	More Red
860 Sky Blue	29	31	30	Less Green	More Red
870 Winter White	76	75	73	Less Green	More Red
872 Opera White	65	69	68	More Blue/More White	More Red
880 Daylight Blue	24	26	25	More Blue/More Red	More Red
882 Southern Sky	24	25	25	More Blue/More Red	More Red, Less Green
885 Blue Ice	60	61	61	More Blue/More Red	More Red, Less Green, Almost N/C
888 Blue Belle	32	33	33	Less Green	More Red
889 Hot Blue	1	2	3	More Blue	More Red
890 Dark Sky Blue	1	2	3	Virtually The Same	More Red
905 Dark Blue	1	2	3	Virtually The Same	More Red
910 Alice Blue	13	13	14	More Red	More Red
915 Twilight	5	5	6	Virtually The Same	More Red
920 Pale Lavender	65	66	67	More Blue, Warmer	More Red/Warmer
925 Cosmic Blue	3	3	4	Virtually The Same	More Red
930 Real Congo Blue	1	2	3	Virtually The Same	More Red
940 Light Purple	20	20	21	More Blue	Slightly More Red
945 Royal Purple	2	2	3	More Blue/More Red	Virtually the Same
948 African Violet	3	5	6	More Blue/More Red	Virtually the Same
950 Purple	9	10	10	More Blue/More Red	Virtually the Same
960 Medium Lavender	27	27	27	More Blue/More Red	More Red
970 Special Lavender	36	36	36	More Blue/More Red	Slightly More Red
980 Surprise Pink	54	55	55	More Blue	More Red
982 Lovely Lavender	43	43	43	More Blue	More Red
985 Ripe Plum	3	3	4	More Blue	More Blue
987 Wild Plum	4	4	5	Slightly More Blue	More Blue
990 Dark Lavender	18	18	18	Virtually The Same	Virtually the Same
995 Orchid	6	6	7	Virtually The Same	More Blue
1514 .15 Neutral Density	66	65	65	More Blue	Less Green
1515 .3 Neutral Density	46	46	47	More Blue	More Red
1516 .6 Neutral Density	24	25	26	More Blue	More Red, Less Green
1517 .9 Neutral Density	10	10	12	More Blue	More Red, Less Green
1518 1.2 Neutral Density	5	6	7	More Blue	More Red, Less Green



4975 West Pico Blvd. TEL: [323] 935.4975
 Los Angeles, CA 90019 FAX: [323] 935.2002
www.gamonline.com